

पेटेंट कार्यालय  
शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**( Shri Rajendra Ratnoo )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

**18<sup>nd</sup> JUNE, 2021**

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**THE PATENT OFFICE  
KOLKATA, 18/06/2021**

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**The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-**

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3	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi - 110075</p> <p>Phone: (91)(11) 25300200 &amp; 28032253 Fax: (91)(11) 28034301 &amp; 28034302 E.mail: <a href="mailto:delhi-patent@nic.in">delhi-patent@nic.in</a></p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>		

Website: [www.ipindia.nic.in](http://www.ipindia.nic.in)

[www.patentoffice.nic.in](http://www.patentoffice.nic.in)

**All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.**

**Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.**

पेटेंट कार्यालय  
कोलकाता, दिनांक 18/06/2021

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

<p>1 कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdmt@nic.in</p>	<p>4 पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप</p>
<p>2 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ <input type="checkbox"/> गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दावर और नगर हवेली.</p>	<p>5 पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in  ❖ भारत का अवशेष क्षेत्र</p>
<p>3 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>	

वेबसाइट: <http://www.ipindia.nic.in>  
[www.patentoffice.nic.in](http://www.patentoffice.nic.in)

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

## **SPECIAL NOTICE**

### **18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.**

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

**(Shri Rajendra Ratnoo)**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

## **SPECIAL NOTICE**

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18<sup>th</sup> months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

## **SPECIAL NOTICE**

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is there is no third party representation.

## **Early Publication:**

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION (21) Application No.202011015056 A  
(19) INDIA  
(22) Date of filing of Application :06/04/2020 (43) Publication Date : 18/06/2021

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(54) Title of the invention : An Audio-Visual System and Method for Holistic Wellness in Humans

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(51) International classification	:H04L0012280000, A61M0021000000, H04N0007150000, H04N0007140000, A61B0005047600	(71) <b>Name of Applicant :</b> <b>1)WADHAWA, Abhay</b> Address of Applicant :Y-166, Regency Park 2, DLF Phase 4, Gurgaon Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)WADHAWA, Abhay</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Disclosed herein a method for improving holistic wellness of humans, wherein said method comprises of synergizing the light and color via spectral wavelengths inducing Simultaneous Adjacent Chroma Stimulus (SACS), sound frequencies and projection art. The synergized light and color, sound frequencies and projection art provide a sensory experience that de-stresses and realigns the body, mind and soul. The corresponding system comprises of an enclosure having projection screens and multipurpose integrated apparatus, wherein said apparatus comprises of CONTENT projecting means, color and light producing means, sound producing means and geometric reflectors, wherein these are configured to project lights on to the projection screen shown through a story-telling format, wherein said light projecting means, light producing means, sound producing means, projecting screens and reflectors are relatively placed so as to optimally produce the desired response of de-stressing and breaking the vicious cycle of stress in humans.

No. of Pages : 38 No. of Claims : 33



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011016431 A

(19) INDIA

(22) Date of filing of Application :16/04/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN APPARATUS FOR MIMICKING THE LIGHT AND SKY-CONDITIONS AT THE HORIZON

(51) International classification	:G02F0001137000, A01G0007040000, G03H0001220000, G01M0011000000, F21S0041200000	(71) <b>Name of Applicant :</b> <b>1)WADHWA, Abhay</b> Address of Applicant :Y-166, Regency Park 2, DLF Phase 4, Gurgaon Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)WADHWA, Abhay</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein an apparatus for mimicking the light and sky-conditions at the horizon comprises a light assembly (2) provided with at least two angularly disposed horizontal strips (9a and 9b) of light source, a composite lens (5) fixedly placed above the light assembly (2) and configured to selectively reflect and transmit the light incident on it, a reflecting dome (3) centrally and partially disposed over the composite lens (5) and light assembly module (2) and provided with an LED spotlight (12) under it, a mounting bracket (4) adapted to receive the light assembly and the composite lens; and a controller (11) configured to control and monitor one or more predetermined parameters of the light source (9), wherein the characteristic of the composite lens (5) is translated depending on the desired geographical location. A corresponding method for mimicking the light and sky-conditions at the horizon is also disclosed.

No. of Pages : 27 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011016753 A

(19) INDIA

(22) Date of filing of Application :18/04/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : A System And A Method To Change Cutter Assembly In A Tape Making Machine

(51) International classification	:B29D0030600000, G01B0003105600, E21B0049000000, B21G0003320000, B29D0030300000	(71) <b>Name of Applicant :</b> <b>1)Lohia Corp Limited</b> Address of Applicant :D-3/A, Panki Industrial Estate, Kanpur , Uttar Pradesh, India , 208022 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Lohia, Gaurav</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention describes a cutting apparatus having a semi-automatically replaceable cutter rail (7) and semi-automated method of replacing it. The apparatus comprises a vertical frame (2) affixed to floor, a horizontal frame (3) affixed to said vertical frame (2) near its top end, a vertical guide rail (4) affixed to said vertical frame (2), a cutter rail carrier assembly (6) consisting of a cutter rail bracket (10) on which said cutter rail (7) is mounted, a geared motor (5) affixed to said vertical frame (2) to cause the up/down movement of said cutter rail carrier assembly (6), a set of guide roller (12) supported on a guide roller bracket (11) mounted on said horizontal frame (3) and capable of swivelling around a pivot (16). The cutter rail carrier assembly (6) is capable of moving up and down along said vertical guide rail (4) during replacement operation of said cutter rail (7).

No. of Pages : 27 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022573 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYNERGISTIC HERBICIDAL COMPOSITION

(51) International classification	:A01N0025280000, A23K0050300000, A01N0035100000, A01N0043900000, A23K0050800000	(71) <b>Name of Applicant :</b> <b>1)BEST AGROCHEM PVT. LTD</b> Address of Applicant :B-4, BHAGWAN DASS NAGAR Street EAST PUNJABI BAGH City NEW DELHI State NEW DELHI Country India Pin code 110026 Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr Vimal Alawadhi</b>
(33) Name of priority country	:NA	<b>2)Mr Raajan Ailawadhi</b>
(86) International Application No	:NA	<b>3)Mr Ajit S Gujral</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates a synergistic herbicidal composition comprising imidazolinone herbicide, a sulfonylurea herbicide and an aryloxyphenoxy propionate herbicide for controlling the undesired vegetations. .

No. of Pages : 62 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023385 A

(19) INDIA

(22) Date of filing of Application :03/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : PHARMACEUTICAL LIPID COMPOSITIONS OF REMDESIVIR

(51) International classification	:A61K0031000000, A61K0009160000, A61K0009480000, C07H0015040000, A61K0009200000	(71) <b>Name of Applicant :</b> <b>1)Jubilant Generics Limited</b> Address of Applicant :Plot I A Sector 16A Noida UP India 201301 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NANDI, Indranil</b>
(33) Name of priority country	:NA	<b>2)JAISWAL, Nilesh</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the lipid pharmaceutical compositions comprising remdesivir or its pharmaceutically acceptable salts or solvate thereof. The present invention also relates to a process for preparing lipid compositions comprising remdesivir or its pharmaceutically acceptable salts or solvate thereof. Compositions of remdesivir prepared as per present invention are able to improve pharmaceutical technical attributes such as increased drug loading ability, dissolution, stability, and bioavailability. The compositions of remdesivir prepared as per the present invention are useful in the treatment of viral infections including coronavirus (COVID-19).

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011041701 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : A METHOD AND A SYSTEM FOR REMOTE WORKING VIA A CLOUD PLATFORM

(51) International classification	:H04L0012580000, G06Q0010100000, G06Q0010060000, H04L0012180000, H04L0029080000	(71) <b>Name of Applicant :</b> <b>1)Chetan Krishan Singh</b> Address of Applicant :D-502, Central Park-I, DLF Golf Course Road, Sector-42, Gurgaon-122002 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Chetan Krishan Singh</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system and method is provided for bringing multiple users to work remotely over a communication platform. Users, such as project collaborators, can chat about each project (in a chat group), any space (in a chat group section) of the project (group) and about each drawing, design, and product (in a chat group subsections) saved inside any space (section). Furthermore, while chatting, any collaborator can convert a chat to a task. Once a chat is converted to a task, it is easily trackable. This is the only platform that automatically adds unknown and unconnected users as collaborators when their published products and designs (content) on the platform are added by existing collaborators to projects (groups). The platform also gives all team members access to the same content by maintaining users<sup>TM</sup> personal content library on the platform. The inventions in this platform help work remotely on design and construction projects.

No. of Pages : 30 No. of Claims : 8

(54) Title of the invention : DEVELOPMENT OF CARDIAC DIAGNOSTIC SYSTEM USING ARTIFICIAL INTELLIGENCE WITH ANDROID APPLICATION

(51) International classification	:A61B0007040000, A61B0008080000, A61B0007000000, A61B0005020000, A61B0008000000	(71) <b>Name of Applicant :</b> <b>1)Dr. Arvind Agarwal</b> Address of Applicant :C-25, Bhagat Singh Marg Tilak Nagar Jaipur-302004 Rajasthan India <b>2)Ajay Saini</b> <b>3)Anand Keshri</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Arvind Agarwal</b>
(33) Name of priority country	:NA	<b>2)Ajay Saini</b>
(86) International Application No	:NA	<b>3)Anand Keshri</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

This project is aimed at development of cardiac diagnostic system are used to listen acoustic signals from the internal organs of the human body. This system play a very important role in the diagnosis process, the chest piece and the connecting cable are known to facilitate transmission of pathogens from patient to patient and from patient to the user. Valvular heart disease is a significant problem. The primary care physician initially does assessment through auscultation. Accuracy in classification of sounds is suboptimal. Technological advances have paralleled an increase in referral for Doppler echocardiography and a decrease in auscultator skill. An increase in the referral of functionally innocent heart murmurs has contributed to the increasing cost of care. A computer-aided analysis has been used to improve the accuracy of primary care physicians. A remote centralized computer-aided analysis could provide physicians with an additional tool in the assessment of heart murmurs, especially in settings without access to echocardiography Replacing the connecting cable with a wireless system may help reduce the potential risk and further allow broadcasting of the signals to multi-users for examination. This proposal is related on the design of a two-piece Bluetooth-based wireless system that eliminates the connecting cables in electronic cardiac system. The design consists of a Bluetooth based integrated chest-piece module for captured acoustic sound transmission and a microcontroller-based head-piece receiver module for decoding the data for the three operational modes of the acoustic cardiac diagnostic system. The design was first tested using a chirp signal source with frequency of 10 Hz 5 kHz. Results obtained for the three operational frequency bands of the cardiac system were consistent with the expected behavior of the smart system, this smart system which can help and provide all information to patients from their body on mobile and web server, this system helpful for patients to increases quality of health and protect from disease using artificial intelligence system able to diagnose disease at initial stage .

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053542 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVELOPMENT OF IOT BASED SMART WASTE MANAGEMENT SYSTEM

(51) International classification	:H04W0084180000, B65F0003000000, G06F0012020000, H04L0029080000, H04W0004700000	(71) <b>Name of Applicant :</b> <b>1)Ajay Saini</b> Address of Applicant :Arya Institute of Engineering and Technology SP-40 RIICO Industrial Area Kukas-302038 Jaipur Rajasthan India <b>2)Dhiraj Shrivastava</b> <b>3)Raj Kewlani</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ajay Saini</b>
(33) Name of priority country	:NA	<b>2)Dhiraj Shrivastava</b>
(86) International Application No	:NA	<b>3)Raj Kewlani</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Rapid increase in population, has led to the improper waste management in cities resulting in increased pests and spreading of diseases. Nowadays, the Garbage Collecting Vehicle (GCV) collects the waste twice or thrice in a week. So, the problem is over flowing of wastages on the roads.To overcome this limitation, in this paper a scheme on smart waste management using Wireless Sensor Networks (WSN) and IoT (Internet of Things) is proposed. The garbage bins are deployed with sensors and are networked together using WSN. The sensors deployed in the garbage bins collect the data for every determined interval. Once the threshold is reached, it raises a request to the GCA (Garbage Collector Agent). This agent collects the requests of all the filled vehicles and communicate using IoT framework. The experimental simulation is done in simulator tool. A hardware prototype is developed for the proposed framework. Analysis of the proposed scheme provides better results in waste management.

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : DEVELOPMENT OF WIRELESS HAND MOTION CONTROLLED ROBOTICS ARM

(51) International classification	:B25J0013080000, B25J0005000000, B25J0013000000, B25J0009140000, A61F0002760000	(71) <b>Name of Applicant :</b> <b>1)Gaurav kumar Soni</b> Address of Applicant :Arya College of Engineering & Research Centre, SP-40, Delhi Road, RIICO Industrial Area, Kukas, Jaipur, Rajasthan 302028 Rajasthan India
(31) Priority Document No	:NA	<b>2)AJAY SAINI</b>
(32) Priority Date	:NA	<b>3)Akash Agarwal</b>
(33) Name of priority country	:NA	<b>4)Pradeep Jha</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Pradeep Jha</b>
(87) International Publication No	: NA	<b>2)Gaurav kumar Soni</b>
(61) Patent of Addition to Application Number	:NA	<b>3)AJAY SAINI</b>
Filing Date	:NA	<b>4)Akash Agarwal</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

There are heavy criteria for artificial guns to be designed for Many cruel conditions where encounters with human beings are Challenges to be presented or not feasible (i.e. unlikely Situations). This project offers descriptions, strategies, and Techniques that are important for the construction of a robotic arm Controlled by ordinary human arm gestures (Gesture) Robotic Arm) whose input is collected by means of a sensor The Gyroscope, Accelerometers and Magneto Fusion Methodology The cameras (MEMS sensors). For a fitting control mechanism And to reduce the volume of noise coming in from A proper average algorithm is used for the sensors, Smoothing the performance of the accelerometer. The progression of This arm is focused on the minicomputer framework, both of which are in Using wireless Bluetooth to interface with each other . This project robotic arm prototype Practical implementation has been carried out. The robotic arm that has been developed The human arm movement with a human arm is tracked in this article. Strong precision Good accuracy . The research goals were accomplished by designing both hardware and software based on MEMS sensors to power the robotic arm. By analysing the observations that have been completed, it clearly indicates that the robotic arm motions are precise, simple to monitor, specific, and users are pleasant to use. The robotic arm has been built successfully, as the motions of the robot can be accurately regulated by human arm movements. The robotic arm operated system provided in this paper is projected to solve several problems such as selecting or putting items that are put away from users, picking and placing harmful objects in a very simple and easy manner, as well as being able to use the arm provided in this device in medical use.

No. of Pages : 14 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011041 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FOAM-LIKE GROWN MATERIAL

(51) International classification	:H01L0029100000, C09J0007380000, H01L0029060000, H01L0021823400, H01L0021840000	(71) <b>Name of Applicant :</b> <b>1)Kanpur Flowercycling Private Limited</b> Address of Applicant :Arazi no. 428-429 Bhaunti, Kanpur, Uttar Pradesh, 209305 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ankit Agarwal</b>
(33) Name of priority country	:NA	<b>2)Nachiket Kuntla</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A grown foam-like composite material including flower or flower extracts, sawdust, and chitin is provided.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011042 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LEATHER-LIKE GROWN MATERIAL

(51) International classification	:H01L0029100000, H01L0027120000, C01B0003000000, C08B0037000000, C08B0037080000	(71) <b>Name of Applicant :</b> <b>1)Kanpur Flowercycling Private Limited</b> Address of Applicant :Arazi no. 428-429 Bhaunti, Kanpur, Uttar Pradesh, 209305 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ankit Agarwal</b>
(33) Name of priority country	:NA	<b>2)Nachiket Kuntla</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A leather-like grown material comprising glucans, glycoproteins and chitin is provided.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011043 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR PRODUCING A LEATHER-LIKE GROWN MATERIAL

(51) International classification	:A01G0018000000, C12N0001140000, A01G0018500000, H01L0029100000, A61K0038000000	(71) <b>Name of Applicant :</b> <b>1)Kanpur Flowercycling Private Limited</b> Address of Applicant :Arazi no. 428-429 Bhaunti, Kanpur, Uttar Pradesh, 209305 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ankit Agarwal</b>
(33) Name of priority country	:NA	<b>2)Sandeep Kumar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process to prepare a leather-like grown material is provided. The process includes preparing (102) a Symbiotic Culture of Bacteria and Yeast (SCOBY) the SCOBY; growing SCOBY/ Cellulose sheets (104) by inoculating the SCOBY in a cellulose rich media or substrate; inoculating (106) and incubating the SCOBY/ Cellulose sheets with grain spawns; and extracting mycelia sheet grown over SCOBY/ Cellulose sheet as the leather-like grown material.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011044 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR PRODUCING A LEATHER-LIKE GROWN MATERIAL

(51) International classification	:H01L0029100000, G01N0033569000, H01L0029060000, C12N0001140000, H01L0021823400	(71) <b>Name of Applicant :</b> <b>1)Kanpur Flowercycling Private Limited</b> Address of Applicant :Arazi no. 428-429 Bhaunti, Kanpur, Uttar Pradesh, 209305 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ankit Agarwal</b>
(33) Name of priority country	:NA	<b>2)Sandeep Kumar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process for obtaining leatherlike grown material is provided. The process includes inoculating (104) desired fungal species/strains in a pre-scale up media having flower or flower substrates or flower extracts or any part of flower to obtain at least one sheet of the leatherlike grown material; and inoculating (106) at least one sheet of the leatherlike grown material in a scaleup media having flower or flower substrates or flower extracts or any part of flower to obtain a plurality of sheets of the raw leatherlike grown material.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011045 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR PRODUCING A FOAM-LIKE GROWN MATERIAL USING FLOWER SUBSTRATES

(51) International classification	:A61L0027380000, G01N0033569000, H01L0029100000, H01L0029060000, A01G0018200000	(71) <b>Name of Applicant :</b> <b>1)Kanpur Flowercycling Private Limited</b> Address of Applicant :Arazi no. 428-429 Bhaunti, Kanpur, Uttar Pradesh, 209305 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ankit Agarwal</b>
(33) Name of priority country	:NA	<b>2)Saumya Srivastava</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process for preparing a grown foam-like material is provided. The process includes inoculating grain spawn, a mixture of grains and CaCO<sub>3</sub> with a culture consisting a plurality of fungal species to obtain colonized grain spawns, in step (104); inoculating a flower substrate with colonized grain spawns, in step (106) to obtain a myceliated mixture; incubating the myceliated mixture inside moulds of required shape or size to obtain a moulded myceliated material in step (108); baking the moulded myceliated material to reduce moisture and kill microbes to obtain harvested moulded myceliated material (110); and drying the harvested moulded myceliated material to obtain the grown foam-like material.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011920 A

(19) INDIA

(22) Date of filing of Application :20/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD OF EXTRACTION OF TEXTILE FIBRE FROM STEM OF NERIUM OLEANDER AND PRODUCT THEREOF

(51) International classification	:A61K0036240000, D01C0001020000, A61Q0019000000, D01C0001040000, A23F0003120000	(71) <b>Name of Applicant :</b> <b>1)RAMRATAN</b> Address of Applicant :Sardar Pura bass ward no. 24 near masjid nohar-335523, Distt. Hanumangarh, Rajasthan Contact No: 9781547442 E-mail: ramratan333@gmail.com Rajasthan India
(31) Priority Document No	:NA	<b>2)ROHIT KUMAR</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)RAMRATAN</b>
(86) International Application No	:NA	<b>2)ROHIT KUMAR</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a method of Extraction of Textile Fibre from the stem of Nerium oleander and product thereof. Method for extraction of fibre comprises of various steps including, Manual Harvesting of the stem, process of retting comprising Tank retting which involves the immersion of outer layer of stem in water followed by washing or the process of chemical retting, which involves the softening of the plant tissues by boiling with 3% sodium hydroxide for 5-7 hours and final washing with cold water, further the extracted fibre is sun dried and carded using woolen carding machine. The fibre obtained using present invention is of shiny white color with High cellulose content of about 81%, Low density i.e., 1.2 g/cm<sup>3</sup>, 5-40 mm length and 7.5 -9% moisture regain.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012433 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD OF EXTRACTION OF TEXTILE FIBRE FROM STEM OF CASCABELA THEVETIA AND PRODUCT THEREOF

(51) International classification	:A61K0045060000, D01C0001040000, D01C0001020000, D04H0013000000, A61K0031704800	(71) <b>Name of Applicant :</b> <b>1)ROHIT KUMAR</b> Address of Applicant :33 A, Tagore Garden, Near Naraingarh Road, Ambala city, Haryana Contact No: 7876002778 E-mail: rohitkuma6858@gmail.com Haryana India <b>2)RAMRATAN</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ROHIT KUMAR</b>
(33) Name of priority country	:NA	<b>2)RAMRATAN</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a method of extraction of textile fibre from the stem of Cascabela thevetia and product thereof. The manufacturing process of present invention comprises of various steps including harvesting, retting i.e. tank retting and chemical retting (3% sodium hydroxide at boiling temperature (hot alkali treatment) for 5-7 hours), washing, sun drying and the final step of passing fibre to woolen carding machine. The average length of a Cascabela thevetia fibre is 5 mm 30 mm; moisture regain is 7.5 -9 % at standard conditions is much similar to cotton fibre properties. The extracted fibre has high cellulose content about 82.4 % and low density i.e., 1.2 g/cc.

No. of Pages : 20 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111016128 A

(19) INDIA

(22) Date of filing of Application :06/04/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : WITHOUT ENERGY MOVING ENGINE

(51) International classification	:F03D0009250000, B60K0006260000, F41H0001020000, F03B0017060000, H01H0003300000	(71) <b>Name of Applicant :</b> <b>1)JIYAUL HAQ</b> Address of Applicant :104, PUO, HARDOI, UTTAR PRADESH, INDIA-241001 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)JIYAUL HAQ</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention provides an assembly for internal non-combustion engine, able to move without energy. The assembly is comprised of, but not limited to, a pressure jack designed to move up and down from both the sides; a distributor that reaches the oil to the pressure jack and generates pressure for the oil; a wheel crank of heavy weight engine; a self-created oil changeover with the main role to help in moving the engine; an iron frame designed to place all devices in the correct order according to their utility function. Further, the assembly which provides the engine a speed, so the engine also speeds up the running of the other devices by randomly speeding up the equipment connected to it (distributed changeover). Hence, it is sufficient to make the entire process engine run automatically.

No. of Pages : 7 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022142 A

(19) INDIA

(22) Date of filing of Application :17/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM FOR PERSONALISED DATA RECOMMENDATION SYSTEM AND A METHOD THEREOF

(51) International classification	:G06Q0030020000, G06Q0030060000, H04N0021466000, G06F0016953500, H04N0021258000	(71)Name of Applicant : <b>1)Dr. Latha Banda</b> Address of Applicant :School of Engineering & Technology, Sharda University, India Uttar Pradesh India <b>2)Dr. Karan Singh</b> <b>3)Dr. Manisha Manjul</b> <b>4)Devendra Gautam</b> <b>5)Avinash Kumar</b> <b>6)Dharm Raj</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Latha Banda</b> <b>2)Dr. Karan Singh</b> <b>3)Dr. Manisha Manjul</b> <b>4)Devendra Gautam</b> <b>5)Avinash Kumar</b> <b>6)Dharm Raj</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system for providing a personalized data recommendation, comprises of a registration module 102 for retrieving details about at least a new user for providing data recommendation, wherein the registration module uses user demographics for registration, a collaborative filtering module 104 for providing recommendation based on interest of other registered users, wherein the collaborative filtering module 104 recommends the data based on matching the provided demographics of the new user during registration with the similar demographics of the other registered users, a content-based filtering module 106 for providing data recommendation based on past activity of the registered user, and a learning module for reducing inappropriate recommendation of data in case of unavailability of the appropriate data, wherein a first learning module 108a recommends data based on the demographics other registered users and a second learning module 108b recommends data based on past activity of the registered user.

No. of Pages : 24 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022363 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN APPARATUS FOR GENERATING ELECTRICITY FROM VEHICLE MOTION

(51) International classification	:F03G0007080000, F16H0019040000, F01B0009040000, B60L0008000000, H02K0007180000	(71) <b>Name of Applicant :</b> <b>1)SHARDA UNIVERSITY</b> Address of Applicant :32-34, Knowledge Park III, Greater Noida, 201310, Uttar Pradesh (UP), India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nishant Kumar</b>
(33) Name of priority country	:NA	<b>2)Ashutosh Kumar Jha</b>
(86) International Application No	:NA	<b>3)Roshan Shah</b>
Filing Date	:NA	<b>4)Manish Kumar Jha</b>
(87) International Publication No	: NA	<b>5)Priyanka Chaudhary</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Suraj Yadav</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention generally relates to a field of alternate ways of converting mechanical energy into electrical energy, and specifically relates to an apparatus (200) for generating electricity from vehicle motion comprising a frame (40) placed underneath a hump (10) of a road surface (30); a spring (90) configured on top of each vertical edge of the frame (40) and in contact with periphery of the road surface (30); a rack (50) and pinion (70) mechanism where the rack (50) is in contact with periphery of the hump (10) and the pinion (70) is configured rotatably with a first shaft which is configured to a bearing (170); a chain and sprocket (110) mechanism configured rotatably with the first shaft and a second shaft; a flywheel (150) configured rotatably with the second shaft; and a direct current (DC) motor (180) configured to each end of the rotating second shaft and further connected to a rechargeable battery, wherein vehicle load exerts a pressure over the hump (10) which facilitates downward linear movement of the rack (50) resulting in conversion of linear movement of the rack (50) into rotational movement of the pinion (70) in such a manner that the sprocket, the flywheel (150) and the second shaft are rotated sequentially, resulting in generation of direct current.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022809 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : VOICE ANALYSIS - A PREVENTIVE HEALTH CARE DIAGNOSTIC TOOL

(51) International classification	:G16H0050200000, A61B0005000000, G16H0015000000, G16H0010600000, A61B0008080000	(71) <b>Name of Applicant :</b> <b>1)JVSCAN (OPC) Private Limited</b> Address of Applicant :House No 2266, Sector 19-C, Chandigarh: 160019, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MAHESH HUKMANI</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system 100 and method for diagnosing health of a user with a voice is disclosed. The system 100 receive audio signals pertaining to the voice of the user from an input unit 104, and transmits to the processing unit 102, which extracts a set of frequencies from the audio signals and perform sampling of the extracted set of frequencies with respect to one or more emotions of the user to determine one or more health parameters of the user based on the sampling of the set of frequencies, and correspondingly a generating a diagnostic report including causes and stage of one or more disease, in the one or more body systems of the subject.

No. of Pages : 34 No. of Claims : 9

(54) Title of the invention : NLP &amp; AI BASED AUTOMATIC DETECTION OF INFECTION RATE OF COVID 19

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06Q0050220000, G16H0050800000, G06F0040300000, G06F0040289000, G06Q0099000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr.Anita Sharma</b> Address of Applicant :Associate Professor Department of Business Administration Maharaja Surajmal Institute c- 4,Janakpuri New Delhi Delhi India 110047 Delhi India</p> <p><b>2)Prof. Vinod Desai</b></p> <p><b>3)M Mohamed Fazi</b></p> <p><b>4)Dr. Joshi. Vinayak</b></p> <p><b>5)Mahesh Kumar A S</b></p> <p><b>6)Dr. P. Tamil Selvi</b></p> <p><b>7)Dr. Brijesh Singh S.</b></p> <p><b>8)Mr. Beschi I S</b></p> <p><b>9)Gangamma Hediylad</b></p> <p><b>10)Pooja H</b></p> <p><b>11)Tarun Jaiswal</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr.Anita Sharma</b></p> <p><b>2)Prof. Vinod Desai</b></p> <p><b>3)M Mohamed Fazil</b></p> <p><b>4)Dr. Joshi. Vinayak</b></p> <p><b>5)Mahesh Kumar A S</b></p> <p><b>6)Dr. P. Tamil Selvi</b></p> <p><b>7)Dr. Brijesh Singh S</b></p> <p><b>8)Mr. Beschi I S</b></p> <p><b>9)Gangamma Hediylad</b></p> <p><b>10)Pooja H</b></p> <p><b>11)Tarun Jaiswal</b></p>
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(57) Abstract :

Threat of pandemic diseases is emerging in the current era, specifically Covid-19 acting as infectious disease leading to death of huge population in the universe. Involvement of technology is demanded for innovative solutions in various aspects in perspective of pandemic disease. A hope is offered by Artificial Intelligence (AI) which can efficiently prevent, pre-empt and combat the threats of such epidemic infectious disease. Enormous potential is offered by AI concerning public health for revolutionizing healthcare which can provide expansion for accessing health information along with its services which in turn enhances the responsibility of individual to know about their well being and health. Natural language programming (NLP) is one of the subfield of AI aiming to bridge the gap between human language and computer language. Applications of AI are able to determine significance of text by using NLP by which machine is able to identify phrases and keywords related to pandemic disease such that infection rate is determined automatically from huge amount of datasets. NLP focuses on information processing and managing data to infer relationship between featured words in a prominent way.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024736 A

(19) INDIA

(22) Date of filing of Application :03/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN EDGE COMPUTING BASED AUTOMATION SYSTEM FOR DENTAL SERVICES

(51) International classification	:G06K0007100000, H04L0029080000, G07G0001000000, A61K0036730000, G07F0007080000	(71)Name of Applicant : <b>1)Dr. Anupama Kaushik</b> Address of Applicant :Associate Professor, Department of Information Technology, Maharaja Surajmal Institute of Technology, GGSIPU, New Delhi, India Delhi India
(31) Priority Document No	:NA	<b>2)Dr. Prabhjot Kaur Sidhu</b>
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	<b>1)Dr. Anupama Kaushik</b>
(86) International Application No	:NA	<b>2)Dr. Prabhjot Kaur Sidhu</b>
Filing Date	:NA	<b>3)Mr. Rakshit Satija</b>
(87) International Publication No	: NA	<b>4)Dr. Nitul Dutta</b>
(61) Patent of Addition to Application Number	:NA	<b>5)Dr. Anil Kumar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein a cloud based automated system for dental services comprises Raspberry Pi 4 (101); Barcode Scanner (102); QR Code scanner (103); Keyboard (104), Microphone (105), and LCD Display (106). The said Raspberry Pi provides a processing unit to execute the required tasks; and it acts as a local machine, as the brain of the system to automate the process of Inventory management. The Barcode readers consist of a light source, a lens and a light sensor that translates optical impulses into electrical ones; and nearly all barcode readers contain decoder circuitry; and it analyzes the barcode<sup>TM</sup>s image data provided by the sensor and sends the barcode<sup>TM</sup>s content to the scanner<sup>TM</sup>s output port. Further, said system is divided into 2 major segments: Local and Cloud ; wherein Local System contains of a processing unit (Raspberry Pi), Barcode scanner, output device(speaker/LCD), Input device (Keyboard/Microphone), Database management system; and wherein Cloud system is used for email and sms API services.

No. of Pages : 28 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024778 A

(19) INDIA

(22) Date of filing of Application :03/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BLOCKCHAIN TECHNOLOGY ENABLED SMART ELECTRICITY BILLING SYSTEM

<p>(51) International classification :G06Q0020340000, G06Q0020400000, G06Q0020380000, G06Q0020360000, G07F0007080000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Bipin Kumar Rai, ABES Institute of Technology</b> Address of Applicant :Professor, Department of Information Technology, ABES Institute of Technology, NH-9, Vijaynagar, Ghaziabad,-201009 UP, India Email id : bipinkrai@gmail.com Mobile No : 9454285149 Uttar Pradesh India</p> <p><b>2)Shivani Sharma, ABES Institute of Technology</b></p> <p><b>3)Vishwachi, Fiserv India Private Ltd</b></p> <p><b>4)Dr. Gautam Kumar, CMR Engineering College</b></p> <p><b>5)Dr. Sheo Kumar, CMR Engineering College</b></p> <p><b>6)Raja Pagalavan, P.T.Lee Chengalvaraya Naicker College of Engineering and Technology</b></p> <p><b>7)Debabrato Mukherjee, Global Institute of Technology</b></p> <p><b>8)Divyansh Kumar Rai, Tata Consultancy Services</b></p> <p><b>9)Vinod Desai, Angadi Institute of Technology and Management</b></p> <p><b>10)Dr.Joshi.Vinayak.B</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Bipin Kumar Rai, ABES Institute of Technology</b></p> <p><b>2)Shivani Sharma, ABES Institute of Technology</b></p> <p><b>3)Vishwachi, Fiserv India Private Ltd</b></p> <p><b>4)Dr. Gautam Kumar, CMR Engineering College</b></p> <p><b>5)Dr. Sheo Kumar, CMR Engineering College</b></p> <p><b>6)Raja Pagalavan, P.T.Lee Chengalvaraya Naicker College of Engineering and Technology</b></p> <p><b>7)Debabrato Mukherjee, Global Institute of Technology</b></p> <p><b>8)Divyansh Kumar Rai, Tata Consultancy Services</b></p> <p><b>9)Vinod Desai, Angadi Institute of Technology and Management</b></p> <p><b>10)Dr.Joshi.Vinayak.B</b></p>
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(57) Abstract :

Currently, with the speedy expansion of technology and social service consciousness, the prepayment schemes are extensively implemented in the establishment of utility services such as electricity, water, and gas. There are massive benefits of using the prepayment scheme for such services on users and as well as traders. The monthly utilized expenditures can be predicted and the cash flow of the providers can be enhanced since the prepayment nature prior to the product being consumed. Nowadays all prepayment methods are interconnected in the centralized structure and risks in this centralized structure also higher. This kind of payment system designed to make secure and highly reliable. This invention brings, peer-to-peer token billing method for the local distribution of electricity with trusted transaction among the internets using blockchain technology based on Wattcoin payment system. Initially wallet is designed and created based on the cryptography technique to create private key along with public key and the wallet address.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024834 A

(19) INDIA

(22) Date of filing of Application :03/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONTROLLED POROSITY OSMOTIC FORMULATION OF VENLAFAXINE

(51) International classification	:A61K0031137000, A61K0009000000, A61K0009060000, A61K0009280000, A61K0031425000	(71) <b>Name of Applicant :</b> <b>1)BANSODE ASHWINI SOPAN</b> Address of Applicant :Department of Pharmaceutics, Institute of Pharmaceutical Sciences and Research Center, Bhagwant University, Ajmer, Rajasthan, India- Rajasthan India
(31) Priority Document No	:NA	<b>2)Dr. SARVANAN K</b>
(32) Priority Date	:NA	<b>3)DEVHADRAO NITIN VASANT</b>
(33) Name of priority country	:NA	<b>4)DR. SURESH LAXMAN JADHAV</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)BANSODE ASHWINI SOPAN</b>
(87) International Publication No	: NA	<b>2)Dr. SARVANAN K</b>
(61) Patent of Addition to Application Number	:NA	<b>3)DEVHADRAO NITIN VASANT</b>
Filing Date	:NA	<b>4)DR. SURESH LAXMAN JADHAV</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is related to a controlled porosity osmotic formulation of Venlafaxine providing sustained release of Venlafaxine in a controlled manner thereby reducing the dosing frequency and increasing patient compliance.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025036 A

(19) INDIA

(22) Date of filing of Application :04/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING A BIOMIMETIC ROBOTIC ARM

(51) International classification	:B25J0009160000, B25J0015000000, G05B0019416000, B25J0009000000, A61F0002580000	(71) <b>Name of Applicant :</b> <b>1)PRANAY TUMMALAPALLI</b> Address of Applicant :N-015, GULSHAN IKEBANA, SECTOR 143, NOIDA, UTTAR PRADESH, 201306 Uttar Pradesh India
(31) Priority Document No	:NA	<b>2)JAYANT KALRA</b>
(32) Priority Date	:NA	<b>3)TANYA GUPTA</b>
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)PRANAY TUMMALAPALLI</b>
Filing Date	:NA	<b>2)JAYANT KALRA</b>
(87) International Publication No	: NA	<b>3)TANYA GUPTA</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to system and method for controlling a biomimetic robotic arm. The method comprises: receiving, an input command (e.g., change in orientation of finger/thumb assembly) through a receiver and determining a current position of finger/thumb assembly. The method further comprises steps of analyzing the received input to determine require position of finger/thumb assembly and calculating, an optimum activation level of first servo motor of thumb/finger assembly to achieve the required position. Moreover, the method include activation of the servo motor to modify the orientation of the finger/thumb assembly, to achieve the essential configuration.

No. of Pages : 30 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025037 A

(19) INDIA

(22) Date of filing of Application :04/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR TRANSLATING SPEECH INTO SIGN LANGUAGE

(51) International classification :G09B0021000000,  
B25J0015000000,  
G10L0021060000,  
G09B0021040000,  
A61B0034300000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**5)AAYUSHI JAIN**

(72)**Name of Inventor :**  
**1)TANYA GUPTA**  
**2)SHIVANSH GARG**  
**3)PRANAY TUMMALAPALLI**  
**4)JAYANT KALRA**  
**5)AAYUSHI JAIN**

(57) Abstract :

The present invention relates to a system and method for translating a speech into sign language by using a robot arm. A speech data from a user can be received through a microphone, and the received speech data can be processed at cloud server to determine corresponding sign language symbol. The server provides such sign language command to the robotic arm, which comprises a plurality of fingers. Each finger comprises bendable digits and joints which connect them. Further, the finger comprises a servo motor which can trigger individual joint to bend the finger. Based on the received sign language, the robotic arm activates servo motor so that fingers can provide output (e.g., sign language) corresponding to speech data.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025054 A

(19) INDIA

(22) Date of filing of Application :05/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A PULP MAKING MACHINE OF WASTE PAPERS

(51) International classification	:D21B0001320000, D21C0005020000, B02C0019000000, D21F0001660000, B02C0018100000	(71) <b>Name of Applicant :</b> <b>1)GRAPHIC ERA HILL UNIVERSITY, DEHRADUN CAMPUS</b> Address of Applicant :510, Society Area, Clement Town, Dehradun, 248002, Uttrakhand, India Uttarakhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Vijay Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr. Shipra Gupta</b>
(86) International Application No	:NA	<b>3)J. S. Kalra</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses a pulp making machine 200 for recycling waste paper without using chemicals and adhesives, said machine 200 comprising: a solid cylinder 201, a cemented hump 202, a hollow cylinder 203, a magnetic strip 204, a rim for rotating said magnetic strip 301, an electric motor 302, an outer frame 303, a channel for pulp 304, a belt 305, a pulley 306, and a lever 307. The method of recycling waste paper comprising: storing a waste paper from a plurality of sources; rotating said solid cylinder 201 to mix shredded waste paper with water using said electric motor 302; crushing said mixture of shredded waste paper and water between said solid cylinder 201 and said cemented hump 202, filtering thick and uncrushed waste paper in the pulp by dipping said hollow cylinder 203 in the pulp, and filtering iron pieces from the pulp by said magnetic strip 204.

No. of Pages : 27 No. of Claims : 8

(54) Title of the invention : THE SMART LOCKING SYSTEM FOR VEHICLES USING IOT AND CLOUD TECHNIQUE.

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H04L0029080000, G07C0009000000, G06Q0020180000, G07F0015000000, H04W0004440000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Mohd Zeeshan Ansari</b> Address of Applicant :Assistant Professor, Department Of Computer Engineering, Department Of Computer Engineering, Jamia Millia Islamia,New Delhi 110025 Delhi India</p> <p><b>2)Dr. Vaddi Ramesh</b></p> <p><b>3)D. Venkata Siva Reddy</b></p> <p><b>4)Dr. B. Aysha Banu</b></p> <p><b>5)C. Jeyalakshmi</b></p> <p><b>6)Dr.G Ravi Kumar</b></p> <p><b>7)Shaik Saidulu</b></p> <p><b>8)Mulaka Madhava Reddy</b></p> <p><b>9)Paritala Jhansi Rani</b></p> <p><b>10)Dr. Sharmila Kumari</b></p> <p><b>11)Dr. Monika Verma</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mohd Zeeshan Ansari</b></p> <p><b>2)Dr. Vaddi Ramesh</b></p> <p><b>3)D. Venkata Siva Reddy</b></p> <p><b>4)Dr. B. Aysha Banu</b></p> <p><b>5)C. Jeyalakshmi</b></p> <p><b>6)Dr.G Ravi Kumar</b></p> <p><b>7)Shaik Saidulu</b></p> <p><b>8)Mulaka Madhava Reddy</b></p> <p><b>9)Paritala Jhansi Rani</b></p> <p><b>10)Dr. Sharmila Kumari</b></p> <p><b>11)Dr. Monika Verma</b></p>
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(57) Abstract :

The smart locking system for vehicles using IOT and cloud technique comprising invention relates to smart locking system for vehicles. More particularly present invention relates to smart locking of the vehicles using the IOT and cloud technique, in which structures and strategies for generating and sharing electronic keys (e-Keys) with customers and cloud-primarily based processing structures, stated e-Keys being sharable for enabling shared use of a vehicle. Wherein stated request to furnish get entry to to the car is received through a server cloud processing device from considered one of another server or pc, in which a transportable device is configured to talk with one of the different server or the server of the cloud processing system, the cloud processing device is configured to control user money owed of customers having motors which can be registered with said cloud processing system, wherein connected to server and cloud using IOT and methods.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : THIOSEMICARBAZONE QUINOXALINE DERIVATIVES SUBSTITUTED WITH AROMATIC AMINO ACIDS AND COUMARIN MOIETIES

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:C07D0265360000, C07D0405120000, A01N0043160000, C07K0014435000, C07K0016060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Girendra Kumar Gautam</b> Address of Applicant :Director, Shri Ram College of Pharmacy, Parikrama Marg, Muzaffarnagar, (U.P.), Pincode: 251001. Uttar Pradesh India</p> <p><b>2)Mr. Bipin Bihari</b></p> <p><b>3)Dr. Akash Ved</b></p> <p><b>4)Dr. Manoj Kumar Mishra</b></p> <p><b>5)Dr. Pankaj Baboo</b></p> <p><b>6)Dr. Satendra Kumar</b></p> <p><b>7)Dr. Priyanka Singh</b></p> <p><b>8)Mr. Neeraj Singh</b></p> <p><b>9)Mr. Mayank Tiwari</b></p> <p><b>10)Mr. Braj Nandan Kishor</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Girendra Kumar Gautam</b></p> <p><b>2)Mr. Bipin Bihari</b></p> <p><b>3)Dr. Akash Ved</b></p> <p><b>4)Dr. Manoj Kumar Mishra</b></p> <p><b>5)Dr. Pankaj Baboo</b></p> <p><b>6)Dr. Satendra Kumar</b></p> <p><b>7)Dr. Priyanka Singh</b></p> <p><b>8)Mr. Neeraj Singh</b></p> <p><b>9)Mr. Mayank Tiwari</b></p> <p><b>10)Mr. Braj Nandan Kishor</b></p>
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(57) Abstract :

The present invention relates to the synthesis of a series of novel thiosemicarbazone quinoxaline derivatives substituted with different aromatic amino acids and coumarin moieties and their antimicrobial evaluation against various microbial strains with molecular docking studies. Lead molecule (1E, 4E)-1-(7-chloro-3-isopropylquinoxalin-2(1H)-ylidene) thiosemicarbazide was synthesized and condensed with various aromatic amino acids and coumarin moiety to synthesized desired derivatives Va-Ve. All compounds showed significant antimicrobial activity, especially compound Va and Ve was found to exhibited excellent activity against Gram negative Gram positivebacterial and fungal strains at MIC 0.09 µg/ml, 0.39 µg/ml, and 0.78 µg/ml respectively.

No. of Pages : 22 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025113 A

(19) INDIA

(22) Date of filing of Application :06/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR SECURE CONNECTION WITH NEWLY CONNECTED DEVICE IN CLOUD NETWORK

(51) International classification	:H04L0029080000, H04L0012280000, H04L0012240000, H04L0012260000, H04W0076140000	(71)Name of Applicant : <b>1)Mr.Ritesh Rastogi</b> Address of Applicant :Associate Professor & Head, Department of MCA, Noida Institute of Engineering and Technology, Greater Noida, G.B.Nagar, Uttar Pradesh, India. Pin Code:201306 Uttar Pradesh India <b>2)Mr.Sandeep Srivastava</b> <b>3)Dr.Bhimraj Basumatary</b> <b>4)Dr.Murali Dhar M S</b> <b>5)Dr.Pilli Lalitha Kumari</b> <b>6)Dr.Rabinarayan Satpathy</b> <b>7)Mr.Rama Krishna Srinivas G</b> <b>8)Mr.Tarun Jaiswal</b> <b>9)Dr.Sushma Jaiswal</b> <b>10)Dr.S.Selvakanmani</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Mr.Ritesh Rastogi</b> <b>2)Mr.Sandeep Srivastava</b> <b>3)Dr.Bhimraj Basumatary</b> <b>4)Dr.Murali Dhar M S</b> <b>5)Dr.Pilli Lalitha Kumari</b> <b>6)Dr.Rabinarayan Satpathy</b> <b>7)Mr.Rama Krishna Srinivas G</b> <b>8)Mr.Tarun Jaiswal</b> <b>9)Dr.Sushma Jaiswal</b> <b>10)Dr.S.Selvakanmani</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system for selecting and determining level of security for newly connected device in a cloud network and method thereof. The system includes, but not limited to, one or more processor; a computer memory holding computer program instructions in the cloud network that when executed by the processor perform a method comprising: receiving, at a cloud terminal a computing device with a context data; generating, a validation message to the other devices using the identified correlation for the newly connected computing device in the cloud network; evaluating, through the context data before setting full duplex communication in the cloud network with the other already connected devices.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025277 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHODS AND SYSTEMS FOR MONITORING A REMOTELY LOCATED RENEWABLE ENERGY POWER PLANT

(51) International classification	:H02J0003380000, B01D0061120000, H02J0013000000, G01W0001000000, F03B0013260000	(71)Name of Applicant : <b>1)Dr. Rohit Sharma</b> Address of Applicant :Assistant Professor, Department of Electronics & Communication Engineering, Faculty of Engineering and Technology, SRM Institute of Science and Technology, NCR Campus, Delhi- NCR Campus, Delhi-Meerut Road, Modinagar Ghaziabad Uttar Pradesh India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Rohit Sharma</b>
(33) Name of priority country	:NA	<b>2)Mr. Krishna Pandey</b>
(86) International Application No	:NA	<b>3)Dr. Praveen Malik</b>
Filing Date	:NA	<b>4)Mr. Vipin Sharma</b>
(87) International Publication No	: NA	<b>5)Dr. Sandeep Kumar</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr. S. Ramesh</b>
Filing Date	:NA	<b>7)Dr. Kusum Yadav</b>
(62) Divisional to Application Number	:NA	<b>8)Mr. Utpal Pandey</b>
Filing Date	:NA	<b>9)Mr. Vivek Kumar Srivastav</b>
		<b>10)Dr. Deepa Gupta</b>

(57) Abstract :

A method (200) for monitoring a remotely located renewable energy power plant, comprises steps of receiving (210) values of a plurality of parameters associated with the renewable energy power plant, from a plurality of sensors (107) located within the renewable energy power plant, determining (220) a state of the renewable energy power plant from the received values of the plurality of parameters, and transmitting (230) the state to a user interface device (124). The values of the plurality of parameters are received over a communication network (108). Further, a system (100) for monitoring a remotely located renewable energy power plant has also been provided.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025285 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : GRAPHENE OXIDE AND CARBON FIBER REINFORCED NANOCOMPOSITE MATERIAL

(51) International classification	:H01M0004360000, C08L0063000000, C08K0003040000, C08K0007060000, C08G0059500000	(71) <b>Name of Applicant :</b> <b>1)VERMA, Rajesh Kumar</b> Address of Applicant :Principal Investigator (UPCST-Project) and Associate Professor, Mechanical Engineering Department, Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh - 273010, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VERMA, Rajesh Kumar</b>
(33) Name of priority country	:NA	<b>2)KUMAR, Jogendra</b>
(86) International Application No	:NA	<b>3)KESARWANI, Shivi</b>
Filing Date	:NA	<b>4)KHARWAR, Prakhar Kumar</b>
(87) International Publication No	: NA	<b>5)KUMAR, Kaushlendra</b>
(61) Patent of Addition to Application	:NA	<b>6)JAISWAL, Balram</b>
Number	:NA	<b>7)VISHWAKARMA, Rahul</b>
Filing Date	:NA	<b>8)PRATAP, Puranjay</b>
(62) Divisional to Application Number	:NA	<b>9)SINGH, Devendra Kumar</b>
Filing Date	:NA	<b>10)KUMAR, Kuldeep</b>

(57) Abstract :

The present disclosure relates generally to nanocomposite materials. More specifically, the disclosure is directed to a graphene oxide and carbon fiber reinforced nanocomposite material comprising one or a plurality of layer(s) of carbon fibers and one or a plurality of layer(s) of epoxy matrix; wherein the carbon fibers are bidirectional carbon fibers and wherein the epoxy matrix comprises an epoxy resin dispersed with graphene oxide in a weight percentage range of 1-3% with respect to the epoxy resin. The disclosure also provides a process of preparing the graphene oxide and carbon fiber reinforced nanocomposite material.

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025358 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN INTELLIGENT STEAM INHALER

(51) International classification	:G06K0009000000, A61M0015000000, F22G0005120000, G05B0019042000, A61M0011040000	(71) <b>Name of Applicant :</b> <b>1)Dinesh Kumar</b> Address of Applicant :Associate Professor, BMED, DCRUST, Sonipat, Haryana- 131001 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Dinesh Kumar</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The main design of our invention discloses an intelligent steam inhaler, which comprises the camera, temperature sensor, and steam-adjustable valve. The main purpose of the present invention is to control the steam flow and temperature of the steam inhaler. Inhaling the steams will help to relieve from the symptoms of cold and sinus infection. But the problem is the overheated and uncontrollable steam flow that will cause a burning in the face. Initially, the camera captures the video of the user to select the sinus mode or facial mode. After releasing the steam, the temperature sensor measures the temperature level of steam, and the video processing unit detects the facial expression of the user based on the captured video. Then, the data will be passed to the microcontroller to adjust steam flow & controls temperature whenever required. Thus, the user can avoid steam injury on his/her face.

No. of Pages : 14 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025439 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ANTIBACTERIAL COMPOUNDS ISOLATED FROM PLANT ACHILLEA MILLEFOLIUM L.

(51) International classification	:A61K0031352000, A61K0036280000, C09D0005140000, A61Q0017000000, C12Q0001180000	(71) <b>Name of Applicant :</b> <b>1)SURESH KUMAR</b> Address of Applicant :MEDICINAL PLANT RESEARCH LAB., DEPARTMENT OF BOTANY,RAMJAS COLLEGE,UNIVERSITY OF DELHI,DELHI 110007 Delhi India
(31) Priority Document No	:NA	<b>2)DOLLY KAIN</b>
(32) Priority Date	:NA	<b>3)VANDANA</b>
(33) Name of priority country	:NA	<b>4)ATUL ARYA</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)SURESH KUMAR</b>
(87) International Publication No	: NA	<b>2)DOLLY KAIN</b>
(61) Patent of Addition to Application	:NA	<b>3)VANDANA</b>
Number	:NA	<b>4)ATUL ARYA</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to newer compounds and method of isolation of newer compounds from Plant Achillea millefolium L. Newer compounds derivatives of vitamin D3, presqualene diphosphate and methoxy derivative of luteolin demonstrated excellent antibacterial activity with potential to overcome anti-bacterial resistance.

No. of Pages : 26 No. of Claims : 7

(54) Title of the invention : A SYSTEM AND METHOD FOR ORGANIZATIONAL OSTEOPOROSIS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H05B0041282000, A61B0005160000, G06Q0010060000, B60R0021380000, B29L0031000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Uchit Kapoor</b> Address of Applicant :Professor, The ICFAI Group, 1815 Civil Lines, Jagadhri, District Yamunanagar, Haryana-135003 Haryana India</p> <p><b>2)Dr. Dhrity Gulati Ahuja</b></p> <p><b>3)Dr. Navaneetha Krishnan Rajagopal</b></p> <p><b>4)Dr. Hari Kumar Pallathadka</b></p> <p><b>5)Dr. Ajay Saini</b></p> <p><b>6)Ms. A. Annapurna</b></p> <p><b>7)Dr. Garima Mathur</b></p> <p><b>8)Dr. Priya Solomon</b></p> <p><b>9)Dr. G. Vijaya Kumar</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Uchit Kapoor</b></p> <p><b>2)Dr. Dhrity Gulati Ahuja</b></p> <p><b>3)Dr. Navaneetha Krishnan Rajagopal</b></p> <p><b>4)Dr. Hari Kumar Pallathadka</b></p> <p><b>5)Dr. Ajay Saini</b></p> <p><b>6)Ms. A. Annapurna</b></p> <p><b>7)Dr. Garima Mathur</b></p> <p><b>8)Dr. Priya Solomon</b></p> <p><b>9)Dr. G. Vijaya Kumar</b></p>
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(57) Abstract :

The present invention generally relates to a system and method for organizational osteoporosis. The method comprises restoring orgeo- clast activity in an organization from a normal bond level; transferring bond relation from unit 2 to a core again and thereby absorbing in the organization; and resurrecting the relation by stress Level and from Unit 2 the bond relation is reabsorbed in the organization.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND METHOD FOR STRATEGIC CONSULTING GROUP (SCG) MATRIX

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06Q0010060000, G06Q0050040000, G10L0025300000, G06Q0010100000, A63F0003020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Uchit Kapoor</b> Address of Applicant :Professor, The ICFAI Group, 1815 Civil Lines, Jagadhri, District Yamunanagar, Haryana-135003 Haryana India</p> <p><b>2)Dr. Ashish Mathur</b></p> <p><b>3)Dr. Neeraj Kumari</b></p> <p><b>4)Dr. Lokesh Jindal</b></p> <p><b>5)Dr. Krity Gulati</b></p> <p><b>6)Mr. Vishnu Sajan</b></p> <p><b>7)Dr. Susheela, Devi B Devaru</b></p> <p><b>8)Dr. Shubhra Rahul</b></p> <p><b>9)Dr. Anupam Mitra</b></p> <p><b>10)Dr. Shebin Sharief</b></p> <p><b>11)Dr. Ashok Sharma</b></p> <p><b>12)Dr. Hari Kumar Pallathadka</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Uchit Kapoor</b></p> <p><b>2)Dr. Ashish Mathur</b></p> <p><b>3)Dr. Neeraj Kumari</b></p> <p><b>4)Dr. Lokesh Jindal</b></p> <p><b>5)Dr. Krity Gulati</b></p> <p><b>6)Mr. Vishnu Sajan</b></p> <p><b>7)Dr. Susheela, Devi B Devaru</b></p> <p><b>8)Dr. Shubhra Rahul</b></p> <p><b>9)Dr. Anupam Mitra</b></p> <p><b>10)Dr. Shebin Sharief</b></p> <p><b>11)Dr. Ashok Sharma</b></p> <p><b>12)Dr. Hari Kumar Pallathadka</b></p>
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(57) Abstract :

The present invention generally relates to a system and method for strategic consulting group (SCG) matrix. The system comprises a central processing unit configured with neural network approach for investing by company during introduction stage, divesting during growing stage, holding during maturity and harvesting during decline; a framing unit for framing decision buckets and thereby each variant is put to implantation for a specified time frame; and a recording unit for recording a comprehensive test plan, a strategy document, a triage report and variance for monitoring.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025553 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SKILL MATRIX SYSTEM AND METHOD FOR JOB RECRUITMENT

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p>Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p>Filing Date</p> <p>(62) Divisional to Application Number</p> <p>Filing Date</p>	<p>:G06Q0010100000, G06Q0010060000, G07F0017000000, G06Q0030080000, A63B0071060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)<b>Name of Applicant :</b> <b>1)Dr. Neeraj Kumari</b> Address of Applicant :Associate Professor, Faculty of Engineering Technology, Manav Rachna International Institute of Research and Studies, Faridabad Haryana India <b>2)Dr. Vaishnavi. P</b> <b>3)Dr. Uchit Kapoor</b> <b>4)Dr. Madhurima Ganguly</b> <b>5)Dr. Hari Kumar Pallathadka</b> <b>6)Mr. Vijay Vishwakarma</b> <b>7)Ms. Suruchi Sharma</b> <b>8)Dr. Monika Sethi</b> <b>9)Dr. Pratima Verma</b> <b>10)Dr. Hemlatha Ramakrishnan</b> <b>11)Mr. Shrikanth Ganapati Naik</b></p> <p>(72)<b>Name of Inventor :</b> <b>1)Dr. Neeraj Kumari</b> <b>2)Dr. Vaishnavi. P</b> <b>3)Dr. Uchit Kapoor</b> <b>4)Dr. Madhurima Ganguly</b> <b>5)Dr. Hari Kumar Pallathadka</b> <b>6)Mr. Vijay Vishwakarma</b> <b>7)Ms. Suruchi Sharma</b> <b>8)Dr. Monika Sethi</b> <b>9)Dr. Pratima Verma</b> <b>10)Dr. Hemlatha Ramakrishnan</b> <b>11)Mr. Shrikanth Ganapati Naik</b></p>
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(57) Abstract :

The present invention generally relates to a system and method for job recruitment. The system comprises an advertising unit for announcing/posting job vacancy upon defining job properly for comprehensive understanding of available jobs; a central processing unit for sourcing job seekers from various means and thereafter starting recruitment process for acquiring candidates from all internal and external means; and a hiring unit for hiring suitable job seekers and thereafter starting job posting and staffing. In addition, a training module is attached with the central processing unit for training the central process unit for optimized selection of job seekers for hiring process in order to reduce traffic of job seekers upon securing eligible job seekers based on degree, experience and skill.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025556 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A REAL TIME GROSS SETTLEMENT (RTGS) TRANSACTION SYSTEM AND TRANSACTION METHOD THEREOF

<p>(51) International classification :G06Q0020340000, G06Q0020380000, G06Q0020060000, G06Q0020100000, G06Q0040020000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Dr. Uchit Kapoor</b> Address of Applicant :Professor, The ICFAI Group, 1815 Civil Lines, Jagadhri, District Yamunanagar, Haryana-135003 Haryana India <b>2)Dr. Rajendra Prasad Meena</b> <b>3)Dr. Abhra Pratip Ray</b> <b>4)Dr. Anil Tiwari</b> <b>5)Dr. Lokesh Jindal</b> <b>6)Dr. Prachi Beriwal</b> <b>7)Ms. Ratchna Rajendran</b> <b>8)Mr. Nirav Rashmikant Goda</b> <b>9)Dr. Anupam Mitra</b> <b>10)Dr. Anshu Gupta</b> <b>11)Ms. Arvinder Kaur</b> <b>12)Dr. Pardeep Kumar</b></p> <p>(72)Name of Inventor : <b>1)Dr. Uchit Kapoor</b> <b>2)Dr. Rajendra Prasad Meena</b> <b>3)Dr. Abhra Pratip Ray</b> <b>4)Dr. Anil Tiwari</b> <b>5)Dr. Lokesh Jindal</b> <b>6)Dr. Prachi Beriwal</b> <b>7)Ms. Ratchna Rajendran</b> <b>8)Mr. Nirav Rashmikant Goda</b> <b>9)Dr. Anupam Mitra</b> <b>10)Dr. Anshu Gupta</b> <b>11)Ms. Arvinder Kaur</b> <b>12)Dr. Pardeep Kumar</b></p>
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(57) Abstract :

The present invention generally relates to a total control interface transaction system and its method thereof. The method comprises sending messages of payment from a sending bank to a central bank, which plays an intelligent and pivotal role here; processing the message and thereupon transferring the message from the central bank to a receiving bank; sending a copy of a first payment message from the central bank to a local hub of sending bank for storage/retrieval and reporting purposes later on; and sending another copy of the first payment message from the central bank to the local hub of receiving bank.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025557 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : WEARABLE HEALTH MONITORING AND CURING DEVICE

(51) International classification	:A61B0005145000, A61B0005000000, A61B0005145500, A61B0005010000, A61B0005020500	(71)Name of Applicant : <b>1)Shri Ramswaroop Memorial University</b> Address of Applicant :Village Hadauri, Post Tindola, Lucknow - Deva Road, Barabanki, Uttar Pradesh 225003, India Uttar Pradesh India <b>2)Dr. Manpreet Singh Manna</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Manpreet Singh Manna</b>
(33) Name of priority country	:NA	<b>2)Dr. Preeti Sharan</b>
(86) International Application No	:NA	<b>3)Dr. Inderpreet Kaur</b>
Filing Date	:NA	<b>4)Archana Yadav</b>
(87) International Publication No	: NA	<b>5)Dr. Anil Kumar</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Srujana Ramchandra</b>
Filing Date	:NA	<b>7)Dr. Thangadurai N</b>
(62) Divisional to Application Number	:NA	<b>8)Dr. Shalini Agarwal</b>
Filing Date	:NA	<b>9)Dr. Reecha Sharma</b>
		<b>10)Lakshmi Shankar</b>

(57) Abstract :

The present invention relates to a wearable health monitoring and curing device comprising, a wearable band that is worn by a user and integrated with bio optical sensor that measures variation in glucose concentration in interstitial fluid (ISF) of intended area, a processing unit linked to the sensor, wherein the unit analysis the discrete changes in the refractive index of the transmitted light in order to obtain data regarding percentage of glucose level, an alert generating module generates notification for user, to alert about level of sugar above a threshold value, an image capturing unit that takes images to determine body language of user and takes surrounding images, medication injector that upon detecting sugar level over critical level injects insulin through the injector in order to control glucose level, a communication module that connect user<sup>TM</sup>s computing unit with processing unit to send health alert and notification to the user.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025558 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : EMERGENCY AID AND PATIENT CARRYING DEVICE

(51) International classification	:A61B0005000000, A61G0007100000, A61B0005145500, A61G0001040000, A61M0016000000	(71) <b>Name of Applicant :</b> <b>1)Shri Ramswaroop Memorial University</b> Address of Applicant :Village Hadauri, Post Tindola, Lucknow - Deva Road, Barabanki, Uttar Pradesh 225003, India Uttar Pradesh India
(31) Priority Document No	:NA	<b>2)Dr. Manpreet Singh Manna</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)Dr. Manpreet Singh Manna</b>
(86) International Application No	:NA	<b>2)Pooja Agarwal</b>
Filing Date	:NA	<b>3)Dr. Inderpreet Kaur</b>
(87) International Publication No	: NA	<b>4)Dr. Niraj Gupta</b>
(61) Patent of Addition to Application	:NA	<b>5)Tanya Garg</b>
Number	:NA	<b>6)Dr. Palwinder Kumar</b>
Filing Date	:NA	<b>7)Dr. Harpreet Vohra</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an emergency aid and patient carrying device, comprising a portable body 1 having multiple motorized wheels 2 attached on a platform 3 where a patient is transferred, a photovoltaic panel 4 attached to a pair of rods 5 for utilizing sunlight to generate electrical energy, a control unit 6 for the manual operation of the wheels 2 for moving the body 1 in forward/reverse directions, an imaging unit 7 for detecting body posture, injured areas or deteriorating health based discomfort associated with the patient, multiple sensors 8 fabricated in a motorized gripper 9 for detecting the patient<sup>TM</sup>s vital parameters, a display unit 10 for suggesting lying postures to the patient, a breathing module 11, 12 for helping the patient inhale oxygen in order to maintain oxygen saturation, multiple nozzles 13 arranged on a lead screw assembly 14 for dispensing medicated solution toward the patient<sup>TM</sup>s wound.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025564 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A TRIPLE BLADE VORTEX GENERATOR INSERT FOR HEAT EXCHANGER

(51) International classification	:F28F0013120000, F28F0003020000, F28F0013020000, F15D0001000000, F15D0001120000	(71) <b>Name of Applicant :</b> <b>1)BAHUGUNA, Rahul</b> Address of Applicant :Assistant Professor, Department of Thermal Engineering, Faculty of Technology, Uttarakhand Technical University, Dehradun, Uttarakhand, India Uttarakhand India
(31) Priority Document No	:NA	<b>2)MER, Krishan Kant Singh</b>
(32) Priority Date	:NA	<b>3)KUMAR, Manoj</b>
(33) Name of priority country	:NA	<b>4)CHAMOLI, Sunil</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)BAHUGUNA, Rahul</b>
(87) International Publication No	: NA	<b>2)MER, Krishan Kant Singh</b>
(61) Patent of Addition to Application Number	:NA	<b>3)KUMAR, Manoj</b>
Filing Date	:NA	<b>4)CHAMOLI, Sunil</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a triple blade vortex generator (TBVG) insert for heat exchanger. The object of the proposed invention is to improve the performance of tube heat exchanger. The proposed invention comprises of three blades having perforations [112] configured at an angle of 45° about lateral axis in clockwise direction. Herein for more fluid flow streamlining over the blades, the blades are kept at 45° of angle. With the use of TBVG inserts, better mix up of fluid is achieved between core fluid flow and fluid flow at wall region by generating recirculation and vortices in the fluid flow, hence disrupting the thermal boundary layer at the wall region resulting in better convective heat transfer, and therefore better thermal performance.

No. of Pages : 16 No. of Claims : 2



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025604 A

(19) INDIA

(22) Date of filing of Application :09/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND SYSTEM FOR SCRIPT LESS AUTOMATED TESTING OF SERVICES

(51) International classification	:G06F0011360000, H04L0012260000, H04L0012240000, G09B0007060000, G06Q0030060000	(71) <b>Name of Applicant :</b> <b>1)HCL Technologies Limited</b> Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Srinivas T</b>
(33) Name of priority country	:NA	<b>2)Narender S</b>
(86) International Application No	:NA	<b>3)Subramanyam P</b>
Filing Date	:NA	<b>4)Jagadish Reddy</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and system for script less automated testing of a service is disclosed. In some embodiments, the method includes analyzing (304) an input file comprising at least one service end-point link and a plurality of test attributes. The method further includes identifying (306) an external testing application relevant for each of the at least one service end-point link. The method further includes invoking (308) the associated external testing application to perform a test on a service end-point connected with each of the at least one service end-point link in at least one of a plurality of test environments; receiving (310) at least one test result of the test performed by the associated external testing application for each of the at least one service end-point link; and converting (312) for each of the at least one service end-point link, the at least one test result into one of a set of predefined output formats.

No. of Pages : 53 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025664 A

(19) INDIA

(22) Date of filing of Application :09/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PUNJABI GRAMMAR CHECKING SYSTEM AMELIORATED THROUGH NEURAL NETWORKS

(51) International classification	:G06F0040253000, G06F0040211000, G06N0003040000, G06N0003080000, G06F0040268000	(71) <b>Name of Applicant :</b> <b>1)Dr. Misha Mittal</b> Address of Applicant :Maharishi Markandeshwar Engineering College, Mullana, Ambala Punjab India <b>2)Vikas Verma</b> <b>3)Sanjeev kumar sharma</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Misha Mittal</b>
(33) Name of priority country	:NA	<b>2)Vikas Verma</b>
(86) International Application No	:NA	<b>3)Sanjeev kumar sharma</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a Punjabi grammar checking system ameliorated through neural networks comprising an acquisition unit for receiving atleast one input corpus, a sentence refiner configured to tokenize the input corpus into a set of input morphemes, a sentence analyzer for returning plurality of tags encompassing the set of input morphemes, a perceptron tagger configured to assign the tags to each of the set of input morphemes using error backpropagation neural network protocol, thereby formulating a set of tagged morphemes, a phrase builder configured to develop an output corpus by examining of degree of closeness of the set of tagged morphemes by parsing thereof, an error detection module configured to check grammatical errors in the output corpus by applying multi-layer artificial neural network protocol thereon and a user-operable discrepancy reporter to provide a detailed error/correction suggestions.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025868 A

(19) INDIA

(22) Date of filing of Application :10/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A LIGHT FIDELITY (LI-FI) BASED BYTE ORIENTED PARALLEL WIRELESS ASYNCHRONOUS DATA TRANSFER SYSTEM

(51) International classification	:H04B0010116000, H04L0012801000, H04L0005160000, H02J0007350000, G06F0015170000	(71) <b>Name of Applicant :</b> <b>1)Prof. (Dr.) Shakti Kumar</b> Address of Applicant :Panipat Institute of Engineering and Technology, Pattikalyana, Smalkha, Panipat (Haryana) - 132102 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Prof. (Dr.) Shakti Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr. Amar Singh</b>
(86) International Application No	:NA	<b>3)Ajay Singh</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a Light Fidelity (Li-Fi) based byte oriented parallel wireless asynchronous data transfer system. The system includes, but not limited to, a couple of laser beams provided with a Li-Fi based half-duplex communication system for managing transfer of data and control signals between a sending unit and a receiving unit. Further, the flow of control signal from the data receiving unit to the data sending unit with a Li-Fi based handshaking process. The Li-Fi based handshaking process between the sending unit and the receiving unit, which is further consisting of: the sending unit communicatively coupled with a plurality of data output ports and implemented for parallel wireless asynchronous data transfer in a Li-Fi data transmission environment.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025869 A

(19) INDIA

(22) Date of filing of Application :10/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A LIGHT FIDELITY (LI-FI) BASED PARALLEL WIRELESS SYNCHRONOUS DATA TRANSFER SYSTEM

(51) International classification	:H04B0010116000, G06F0015800000, H04L0007000000, H04B0010500000, H04L0029080000	(71) <b>Name of Applicant :</b> <b>1)Prof. (Dr.) Shakti Kumar</b> Address of Applicant :Panipat Institute of Engineering and Technology Pattikalyana, Smalkha, Panipat (Haryana) - 132102 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Prof. (Dr.) Shakti Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr. Amar Singh</b>
(86) International Application No	:NA	<b>3)Ajay Singh</b>
Filing Date	:NA	<b>4)Dr. Vinay Khatri</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a Light Fidelity (Li-Fi) based synchronous parallel data transfer system using single light source. The system includes, but not limited to, a synchronous parallel data communication arrangement provided to construct a Li-Fi based transmitter unit, in which a data sending unit communicatively coupled with a plurality of data output ports implemented for parallel data transfer in a Li-Fi data transmission environment; a plurality of frequency modulators receiving their inputs from each of the dedicated data ports and further transferring to a linear mixer. Further, the synchronous data transfer arrangement provided to construct a Li-Fi based data receiving unit, which is furthermore consisting of: the data receiving unit communicatively coupled with a plurality of data input ports implemented for parallel data transfer in the Li-Fi data transmission environment.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026018 A

(19) INDIA

(22) Date of filing of Application :11/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONTINUOUS VARIABLE POWER GENERATION SYSTEM

(51) International classification	:F02B0063040000, F03G0007080000, H02K0051000000, B60K0025020000, H02K0053000000	(71) <b>Name of Applicant :</b> <b>1)ITS Engineering College</b> Address of Applicant :46, Knowledge Park III, Greater Noida, Uttar Pradesh 201308, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mahip Singh</b>
(33) Name of priority country	:NA	<b>2)Raveena Ahuja</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a continuous variable power generation system comprising, a power generating unit 3 that converts heat energy by combusting fuel, into a rotational mechanical energy and transmits the power to an input shaft, an alternator 12 connected to the input shaft with the help of output shaft, that receives and converts the rotational energy into alternating current (AC), a ball type continuous variable transmission 8 connected in between the input and the output shaft, where the CVT 8 transmits the rotational power from the input shaft to the output shaft in varying rotation per minute (RPM), a current transformer that measure output load of output shaft, a servo actuator 1 that operates throttle input and CVT 8 to maintain RPM of output shaft and an electro mechanical synchronizer 9 that transfers rotational motion to the alternator 12 as additional support.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026157 A

(19) INDIA

(22) Date of filing of Application :11/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AUTOMATED IOT BASED SMART AGRICULTURE MONITORING AND PROTECTION SYSTEM WITH DRONE

(51) International classification	:A01G0025160000, H04N0007180000, B64C0039020000, G01D0021020000, G06Q0050020000	(71)Name of Applicant : <b>1)BRAHMDUTT BOHRA</b> Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Poornima University, Jaipur- 303905. Ph: 8005584072 E-Mail: brahmdutt.bohra@gmail.com <b>2)Dr. NITIN MISHRA</b> <b>3)Dr. SAUMYA CHATURVEDI</b> <b>4)AANCHAL VIJ</b> <b>5)Dr. RATNESH PRASAD SRIVASTAVA</b> <b>6)ROHIT</b> <b>7)Dr. D. VETRITHANGAM</b> <b>8)SUNITA TRIPATHI</b> <b>9)N. NAGARAJAN</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)BRAHMDUTT BOHRA</b>
(33) Name of priority country	:NA	<b>2)Dr. NITIN MISHRA</b>
(86) International Application No	:NA	<b>3)Dr. SAUMYA CHATURVEDI</b>
Filing Date	:NA	<b>4)AANCHAL VIJ</b>
(87) International Publication No	: NA	<b>5)Dr. RATNESH PRASAD SRIVASTAVA</b>
(61) Patent of Addition to Application	:NA	<b>6)ROHIT</b>
Number	:NA	<b>7)Dr. D. VETRITHANGAM</b>
Filing Date	:NA	<b>8)SUNITA TRIPATHI</b>
(62) Divisional to Application Number	:NA	<b>9)N. NAGARAJAN</b>
Filing Date	:NA	

(57) Abstract :

Heavy rainfall may cause damage and losses to the crops as well as field crop and it depends on the severity and frequency of the flooding. However, draining of excess water from crop field is very difficult. In order to overcome this problem Automated IOT Based Smart Agriculture Monitoring System is proposed. This system Classifies the entire process into two stages namely Monitoring and Protection. In First stage, the weather conditions of the Crop Field is measured using various sensors which are used for measuring temperature, soil moisture and water level of the crop field and so on. If any sensor crosses its threshold value or when water level rises due to heavy rain fall or any other reasons, the concerned sensor send the data to the Arduino board and user also. In the second stage, If the sensor values cross its threshold value, then buzzer will turn on and the water pump is operated to drain the excess of water in the crop field. Drone technologies are more effective in monitoring and doing protection in huge agricultural land so this automated IOT based monitoring system is connected to a Drone to accurately monitor and make the improvements in draining the excess of rain water and other water. In this way, Excess of water is drained from the crop field or huge agricultural land to provide better crop production and protect the crop damage. This IOT based Smart system improves the entire Agriculture system by monitoring the field in real-time with the help of sensors and interconnectivity with drone.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026245 A

(19) INDIA

(22) Date of filing of Application :12/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM FOR AUTONOMOUS COOKING ASSISTANCE •

(51) International classification	:A47J0036320000, H05B0006060000, F24C0007080000, A23L0005100000, A47J0036000000	(71) <b>Name of Applicant :</b> <b>1)Surana, Vaibhav</b> Address of Applicant :C-117, Lalkothi, Janpath, Jaipur, Rajasthan - 302015, India Rajasthan India <b>2)Gupta, Sonia</b> <b>3)Boby, Denny</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Surana, Vaibhav</b>
(33) Name of priority country	:NA	<b>2)Gupta, Sonia</b>
(86) International Application No	:NA	<b>3)Boby, Denny</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a system for autonomous cooking assistance (108). An autonomous cooking system (108) includes storage container (202), actuator unit (206), quantity sensing unit (208). The autonomous cooking system (108) 5 include water tank (210b), cooking vessel (212) placed on cooking platform (216) and cooking controller (210a) connected to each module. The cooking controller (210a) receives cooking signal from a communication device (102). The cooking controller (210a) analyze user data, predefined cooking data, feedback data, user meta data and sensor data based on trained dataset in real 10 time. The cooking controller (210a) determines cooking recipe for preparing meal based on the analysis and generates activation signal to the cooking platform (216) and the actuator unit (206). The cooking controller (210a) monitor cooking temperature and control heat transfer of the cooking platform (216), further generates deactivation signal based on cooking time calculated in the cooking recipe.

No. of Pages : 31 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114023358 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TRANSMUCOSAL PHARMACEUTICAL COMPOSITIONS OF ANTIVIRAL DRUGS

(51) International classification	:A61K0009200000, A61K0009000000, A61K0009480000, C07D0401120000, A61K0009160000	(71) <b>Name of Applicant :</b> <b>1)Jubilant Generics Limited</b> Address of Applicant :Plot 1A, Sector 16A, Noida - 201301, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:202011022634	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/05/2020	<b>1)NANDI, Indranil</b>
(33) Name of priority country	:India	<b>2)MUKHERJEE, Tusharmouli</b>
(86) International Application No	:NA	<b>3)KUMAR, Dinesh</b>
Filing Date	:NA	<b>4)JAIN, Anil</b>
(87) International Publication No	: NA	<b>5)SONI, Pankaj</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MISTRY, Gaurav Navinbhai</b>
Filing Date	:NA	<b>7)JAISWAL, Nilesh</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the transmucosal dosage forms like sublingual pharmaceutical compositions comprising antiviral molecules like favipiravir, remdesivir, baloxavir marboxil, molnupiravir, besifovir, raltegravir, GS-441524, ravidasvir, and other antiviral drugs. The present invention also relates to methods for preparing these transmucosal pharmaceutical compositions. Compositions prepared as per the present invention are able to increase bioavailability by avoiding first-pass metabolism. The compositions prepared as per the present invention exhibit desired pharmaceutical technical attributes such as pH, assay, related substance, disintegration, and dissolution. The compositions prepared as per the present invention are useful in the treatment of viral infections including coronavirus infection (COVID-19).

No. of Pages : 63 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114024650 A

(19) INDIA

(22) Date of filing of Application :02/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : THREE-DIMENSIONAL, ADDITIVE MANUFACTURING SYSTEM, AND A METHOD OF MANUFACTURING A THREE-DIMENSIONAL OBJECT

(51) International classification	:B33Y0030000000, B33Y0010000000, B33Y0050020000, B33Y0070000000, B29C0064153000	(71) <b>Name of Applicant :</b> <b>1)SAKUU CORPORATION</b> Address of Applicant :5870 Hellyer Ave. Suite 50 San Jose, California 95138, United States of America U.S.A.
(31) Priority Document No	:16/894,636	(72) <b>Name of Inventor :</b>
(32) Priority Date	:05/06/2020	<b>1)ROGREN, Philip Eugene</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A three-dimensional, additive manufacturing system is disclosed. The first and second printer modules form sequences of first patterned single-layer objects and second patterned single-layer objects on the first and second carrier substrates, respectively. The patterned single-layer objects are assembled into a three-dimensional object on the assembly plate of the assembly station. A controller controls the sequences and patterns of the patterned single-layer objects formed at the printer modules, and a sequence of assembly of the first patterned single-layer objects and the second patterned single-layer objects into the three-dimensional object on the assembly plate. The first transfer module transfers the first patterned single-layer objects from the first carrier substrate to the assembly apparatus in a first transfer zone and the second transfer module transfers the second patterned single-layer objects from the second carrier substrate to the assembly apparatus in a second transfer zone. The first and second printer modules are configured to deposit first and second materials under first and second deposition conditions, respectively. The first and second materials are different and/or the first and second deposition conditions are different.

No. of Pages : 71 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114024831 A

(19) INDIA

(22) Date of filing of Application :03/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HYBRID SOLID-STATE CELL WITH A SEALED ANODE STRUCTURE

(51) International classification	:H01M0002080000, C25B0009060000, H01M0010340000, E04D0001300000, H01M0002340000	(71) <b>Name of Applicant :</b> <b>1)SAKUU CORPORATION</b> Address of Applicant :5870 Hellyer Ave. Suite 50 San Jose, California 95138, United States of America U.S.A.
(31) Priority Document No	:16/898,126	(72) <b>Name of Inventor :</b>
(32) Priority Date	:10/06/2020	<b>1)ROGREN, Philip Eugene</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A monolithic ceramic electrochemical cell housing is provided. The housing includes two or more electrochemical sub cell housings. Each of the electrochemical sub cell housing includes an anode receptive space, a cathode receptive space, a separator between the anode receptive space and the cathode receptive space, and integrated electron conductive circuits. A first integrated electron conductive circuit is configured as an anode current collector within the anode receptive space. A second integrated electron conductive circuit is disposed as a cathode current collector within the cathode receptive space.

No. of Pages : 32 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021008720 A

(19) INDIA

(22) Date of filing of Application :29/02/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SQUAT KIOSK FOR THE FITNESS

(51) International classification :A63B0021000000,  
G06Q0030020000,  
A63B0023040000,  
A63B0071060000,  
A63B0021062000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Ladder 2 Rise Private Limited**

Address of Applicant :B202, Samarpan, Unique Garden,  
Beverly Park, Mira Road East, Thane , Maharashtra, India-  
401107 Gujarat India

(72)Name of Inventor :

**1)MEHUL PRAVINKANT SHUKLA**

**2)Kuldeep Trivedi**

(57) Abstract :

Squat kiosk Abstract The present invention relates to a squat kiosk system. The present invention generally relates to exercise machines and more particularly, relates to a squat kiosk the exercise machine, which is useful to promote people to do exercise to become fit and healthy. The kiosk system offers gift coupons or rewards for doing exercise before the kiosk system. The present invention squat kiosk system is doing fitness awareness under the fit India Movement. The screen can be used for display of advertisement and it can also work as automatic vending machine from which user/customer can redeem/buy products.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021011150 A

(19) INDIA

(22) Date of filing of Application :16/03/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : THE DIGITAL UNIFORM

(51) International classification	:A41D0029000000, H04N0001401000, F16H0035020000, B29D0030320000, G01N0030560000	(71) <b>Name of Applicant :</b> <b>1)SATISH DHONDIRAM KADAM</b> Address of Applicant :2, R.NO.505, RAMSHAMKRUPA CO.OP HSG. SOC. LTD., BHAVANI SHANKAR ROAD, GARAGE FULLY, DADAR (WEST), MUMBAI - 400028, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SATISH DHONDIRAM KADAM</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstraction of invention ABOUT THE DIGITAL UNIFORM It attempts to protect/prevent female children especially and also male children in the school premises from any untoward incidences that can happen due to entry of unauthorized person, animal in the private and remote areas of the school premises and also can track In-Campus movement of the student. It attempts to save life and dignity of the students in the school premises. And also make attendance marking activity paperless.

No. of Pages : 6 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021015691 A

(19) INDIA

(22) Date of filing of Application :10/04/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND DEVICE FOR DISINFECTING SURFACES AND COVERED SPACES

(51) International classification	:A61L0002220000, C02F0001467000, A61L0002200000, B60H0003000000, A61L0002100000	(71) <b>Name of Applicant :</b> <b>1)Bhausahab Bapurao Janjire</b> Address of Applicant :3 B/26, Aditya Garden City, Warje , Pune -411058 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Bhausahab Bapurao Janjire</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT TITLE OF INVENTION: METHOD AND DEVICE FOR DISINFECTING SURFACES AND A** disinfecting device for treating a contaminated surfaces/area is the disclosed. The disinfecting device (100) includes a power section (10), a high voltage generator (20) is coupled to the power section (10) to produce one or more high voltage ranges required to generate bipolar ions, an ionizer (40) coupled to the high voltage generator (20), a mixing chamber (50) housing the ionizer (40), and a process controller (60). The ionizer (40) is configured to ionize ambient air. The mixing chamber (50) includes an inlet opening (50a) and an outlet opening (50b). During operation, the one or more high voltage ranges having different frequencies generated by the high voltage generator (20) are fed to the ionizer (40) in the same cycle of operation producing bipolar ions with different ionization frequencies in one cycle of operation for disinfecting the contaminated surfaces/area. FIG. 1

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021017788 A

(19) INDIA

(22) Date of filing of Application :25/04/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : NIVARAN - NON INVASIVE VITAL SIGN & RESPIRATORY ANALYZER

(51) International classification	:A61B0005080000, A61B0005020500, A61B0005087000, A61B0005000000, A61B0005083000	(71)Name of Applicant : <b>1)Chauhan Prajwal</b> Address of Applicant :4, Kalikund society, Opt. sneha complex, Kalikund, Dholka-382225, Ahmadabad, Gujarat Gujarat India <b>2)Prajapati Krunal Rajeshbhai</b> <b>3)Prof. Parmar Bhaveshkumar Harishbhai</b> <b>4)Mistry Karan Prakashbhai</b> <b>5)Panchal Chahana Kalpan</b> <b>6)Patel Karan Devendrabhai</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Chauhan Parjwal</b> <b>2)Panchal Chahana Kalpan</b> <b>3)Patel Karan Devendrabhai</b> <b>4)Prof. Dhaval Patel</b> <b>5)Mistry Karan Prakashbhai</b> <b>6)Prof. Parmar Bhaveshkumar Harishbhai</b> <b>7)Prajapati Krunal Rajeshbhai</b> <b>8)Dr Rajul Kaushik Gajjar</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

NIVARAN - Non Invasive Vital sign & Respiratory ANalyzer • Millions of people around the world are suffering from corona virus disease and other respiratory disorders. The initial symptoms of these diseases are shortness of breath, increased body temperature and decrease in SpO2 level. Currently, suspected people are classified based on temperature or all parameters which are measured by various equipment. There is no single device that measure all three parameters. The present invention measures all three parameters along with the breathing rate and real time graph of lung pressure. The person coming for a check-up has to just exhale the air from mouth while closing the nostrils and has to place fingertip on a respective notch for the study of certain parameters. The examination continues for about one minute and after that the three parameters along with graph will be displayed on the screen. The device is safe, cost-effective less time consuming and easy to operate.

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021020058 A

(19) INDIA

(22) Date of filing of Application :12/05/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : A DISPOSABLE COVER FOR COVERING A HEAD OF AN OPTICAL DEVICE •

(51) International classification	:B32B0027320000, B32B0027080000, A41D0013015000, A41D0013050000, H04B0001388800	(71) <b>Name of Applicant :</b> <b>1)ANUPAM LAVANIA</b> Address of Applicant :Bioscan Research Pvt. Ltd., C/306/A, Shivalik Corporate Park, B/H IOC Petrol Pump, Satellite, Ahmedabad, Gujarat India 380015 Gujarat India
(31) Priority Document No	:NA	<b>2)SHILPA MALIK</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)ANUPAM LAVANIA</b>
(86) International Application No	:NA	<b>2)SHILPA MALIK</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**TITLE: A DISPOSABLE COVER FOR COVERING A HEAD OF AN OPTICAL DEVICE • ABSTRACT** The present disclosure discloses a disposable cover (4) for covering a head (8) of an optical device (1) and contacting a subject for examination. The cover includes a body (21), defining a first surface (19) and a second surface (20). The body (21) is removably connectable to the head through the first surface and the second surface, where one or more apertures (6) are defined in the first surface (20). A flexible cap (7) is disposed of in each of the one or more apertures of the body, where at least a portion of the flexible cap is made of a substantially transparent material. The flexible cap is structured to accommodate an optical probe (3) extending from the head of the optical device, such that the optical probe extends and retract relative to the body based on position of the optical device relative to the subject. Figs 4 and 5 are the representative figures.

No. of Pages : 41 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121003314 A

(19) INDIA

(22) Date of filing of Application :25/01/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : E-DOCUMENT CARD

(51) International classification :G06Q0020340000,  
G06F0040174000,  
G06F0021620000,  
G07F0007100000,  
G07F0007080000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
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(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)DIGAMBAR PADMAKAR MAHAJAN**

(57) Abstract :

E-DOCUMENT CARD ABSTRACT:- A) Government Sector :- requires a large number of documents but due to lack of time and unavailability of proper documents, the work time and cost is greatly increased and it is difficult to find them in the place where documents are stored. We can use it. E-DOCUMENT CARD has unlimited space for storing papers so we can store a large amount. With the help of E-DOCUMENT CARD we can find these documents anytime and anywhere and give them wherever we want. Proper security will be provided for this. The information on this E-DOCUMENT CARD will be linked to the government so that it can be kept safe and original. The information on E-DOCUMENT CARD can be changed to government office as per convenience and information can be entered in it. Instead of having to store millions of documents, there will be an easy-to-carry card. B) Private Sector: - The private sector has to store a large amount of personal information and that information needs to be secure. It is difficult for you to store and secure private office, school and personal information. It takes a lot of time, expense and hassle to carry the documents and make new ones to change and store them back. The E-DOCUMENT CARD can be used to deal with the increasing number of cases of loss and theft of private information. Private E-DOCUMENT CARD can be used in these areas, so that their information is connected to their server and they can get it at the right time. No need for a big secure computer and big expenses. Paper information can be easily destroyed but with E-DOCUMENT CARD we can carry it around safely. 1. The cost of filling up the forms and copying the required documents will be stopped. If a copy of the form and E-DOCUMENT CARD is attached while filling the form, you can remove the documents required for the CARD. 2. Since there is no limit to the number of documents that can be stored, a large amount of documents can be stored on a piece of paper that we can easily carry around 3. It can save a lot of time and money. It will take seconds to get any paperwork and stop taking bribes 4. A lot of paperwork will not be required. We can do our job easily by showing E-DOCUMENT CARD. For example, if you forgot the documents while driving, you can go to your place by showing the E-DOCUMENT CARD. No need to carry paper. 5. In India, 700,000,000 (700 core) trees are cut down in a year, and for those documents alone, they can save a lot. 6. The government will have a list of information and documents of every person residing in India in one place 7. Since documents are in digital form, they can be kept on a single paper for thousands of years 8. It will be easier to verify the documents, because of this one card 9. It will be easier to carry the documents and they will be approved by the government Documents can be sent to anyone at any time.

No. of Pages : 6 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121008894 A

(19) INDIA

(22) Date of filing of Application :03/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : E-7/12 CARD

(51) International classification	:G06Q0040020000, G06Q0050020000, G06Q0010100000, G06Q0050260000, G06Q0099000000	(71) <b>Name of Applicant :</b> <b>1)Digambar Padmakar Mahajan</b> Address of Applicant :At.Post Satod Kolwad Tal Yawal Dist Jalgaon 425301 (MH) Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Digambar Padmakar Mahajan</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Scan the code on the card and look at the excerpts that come up. Select the excerpt number. After selecting the OTP on the phone number registered on the transcripts. If it is dropped, it will come down in front, it will have the date of that day, Talathi signature and seal. It can be used by farmers by printing. The person who has arrears of revenue will get 7/12 or 8 / A through card, he will also get it in print but it will not be signed by Talathi or any government employee. The person who wants to sign it will have to go to the concerned office and collect the remaining revenue. The card will be digitalized so that the revenue of 8 / A can also be paid through home phone. Farmers will not have to listen to the excuse of not being a government employee or not present. Government facilities, loan schemes and guaranteed prices will all be understood on the number attached to the transcript. The government will not have to sanction large sums of funds. He will meet you at the right time. The farmer will find the transcript on the phone or in the place of documents in 2-3 minutes. The reason for not having Talathi will never be heard by a farmer. You do not have the permission required to post. You just have to be more discriminating with the help you render toward other people. Since 7/12, which meets the farmer in maximum 1-2 days, meets in 2-3 minutes, many routes will work and the confidentiality of 7/12 harvest will be maintained.

No. of Pages : 13 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121009040 A

(19) INDIA

(22) Date of filing of Application :04/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A METHOD AND A PROCESSING SYSTEM FOR FUNDAMENTAL MATRIX GENERATION TO ESTIMATE EFFICIENTLY EPIPOLAR GEOMETRY FOR HOLOGRAPHIC IMAGE ANALYSIS

(51) International classification	:G06T0007593000, G06N0003120000, G06F0017160000, G01S0007400000, G16C0020500000	(71) <b>Name of Applicant :</b> <b>1)Jyoti Joglekar</b> Address of Applicant :E/4, Guruprasad, Arunodaya Nagar, Mulund East, Mumbai Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Jyoti Joglekar</b>
(33) Name of priority country	:NA	<b>2)Satish Mehta</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for fundamental matrix generation for optimizing estimation of epipolar geometry is utilizing Joglekar-Mehta Algorithm based on Genetic Algorithm. The method comprises a step of receiving, in a processing unit, stereo image pairs of a scene captured by one or more uncalibrated cameras with unknown camera parameters, and a step of generating in the processing unit a fundamental matrix for optimizing estimation of epipolar geometry, wherein said step comprises a step of creating of an initial population of fundamental matrices, and a step of selecting of the best fundamental matrix equivalent to the essential matrix.

No. of Pages : 29 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121011669 A

(19) INDIA

(22) Date of filing of Application :19/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A MEDICAL WASTE MANAGEMENT SYSTEM USING IOT METHOD.

(51) International classification	:A61L0011000000, B09B0003000000, G06Q0050220000, A61B0050000000, A61B0050360000	(71)Name of Applicant : <b>1)Dr. Tikendra Nath Verma</b> Address of Applicant :Department of Mechanical Engineering, Maulana Azad National Institute of Technology Bhopal , 462003, Madhyapradesh, INDIA Madhya Pradesh India <b>2)Srilatha Toomula</b> <b>3)Dr. Sridevi Ramachandiran</b> <b>4)Dr. Khushboo Sabharwal Gupta</b> <b>5)Mr. Rohit Kumar</b> <b>6)Dr. Samina Elyas Mubeen</b> <b>7)Dr. Mohammed shoeb</b> <b>8)Dr. Upendra Rajak</b> <b>9)Tulala Rajasanthosh Kumar</b> <b>10)Dr. Kamasani Chandrasekhar Reddy</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Tikendra Nath Verma</b>
(33) Name of priority country	:NA	<b>2)Srilatha Toomula</b>
(86) International Application No	:NA	<b>3)Dr. Sridevi Ramachandiran</b>
Filing Date	:NA	<b>4)Dr. Khushboo Sabharwal Gupta</b>
(87) International Publication No	: NA	<b>5)Mr. Rohit Kumar</b>
(61) Patent of Addition to Application	:NA	<b>6)Dr. Samina Elyas Mubeen</b>
Number	:NA	<b>7)Dr. Mohammed shoeb</b>
Filing Date	:NA	<b>8)Dr. Upendra Rajak</b>
(62) Divisional to Application Number	:NA	<b>9)Tulala Rajasanthosh Kumar</b>
Filing Date	:NA	<b>10)Dr. Kamasani Chandrasekhar Reddy</b>

(57) Abstract :

The medical waste management system by IoT method comprising medical waste management and disposal and, in particular, to an integrated system with numerous improvements and interlocks to encourage safe and proper operation. The present invention is relates and more particularly, to containerized systems and methods for providing medical waste processing. In which collection medical waste information associated with a pharmaceutical, the pharmaceutical waste information being gathered from a plurality of sources, wherein the pharmaceutical waste information includes information regarding finished pharmaceutical dosage forms of the pharmaceutical and storing the gathered pharmaceutical waste information into a database, the gathered pharmaceutical waste information including analysis and notes from one or more reviewers of the pharmaceutical; and also using the information associated with the pharmaceutical waste information to a client, wherein the client enters a pharmaceutical name and is provided with a pharmaceutical waste disposal recommendation and store into RAM also with centrally monitoring. [Figure 1]

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121013634 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A METHOD OF MAKING WEATHERPROOF TRELLIS SUPPORT FOR CLIMBING PLANTS USING BAMBOO AND HIGH-DENSITY POLYETHYLENE.

(51) International classification	:A01G0009120000, E02D0005800000, A01G0017060000, C08L0023060000, F24S0010500000	(71) <b>Name of Applicant :</b> <b>1)GANESH VERMA</b> Address of Applicant :Anand Vatika, Samriddhi vihar, Samadhan, College Village Fari Post, Bijabhat, Bemetara Chhattisgarh - 491335 Chattisgarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GANESH VERMA</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention comprised of a design and mechanism of a trellis support made using bamboo coated with High-Density Polyethylene which is highly resistant to heat, light and water and other forces of nature along with to the stress caused due to pulling. High-Density Polyethylene protects the encased bamboo material from rapid weathering, thus taking advantage of both that is the strength and tensile strength of bamboo and the rugged nature of HDPE respectively. The design has been equipped with a ground anchor to hold the structure steadily into the ground. The ground anchor is made using Nylon 66 plastic which provides great strength and ensures that there is no rotting. The ground anchor has a self-drilling mechanism to make the installation and used of this design of trellis support easy and weather friendly due to its pressure bearing capacity. TITLE A method of making weatherproof Trellis support for Climbing plants using bamboo and High-Density Polyethylene.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121016243 A

(19) INDIA

(22) Date of filing of Application :07/04/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN DYNAMICALLY DEVICE FOR BALANCING FOOD CARRYING.

(51) International classification	:A47G0021040000, A47G0021020000, A61F0004000000, F41A0027300000, A47G0021000000	(71) <b>Name of Applicant :</b> <b>1)Tikendra Nath Verma</b> Address of Applicant :Assistant Professor , Department of Mechanical Engineering , Maulana Azad National Institute of Technology Bhopal , 462003, Madhya Pradesh , INDIA Madhya Pradesh India
(31) Priority Document No	:NA	<b>2)Shobha Lata Sinha</b>
(32) Priority Date	:NA	<b>3)Rohit Kumar</b>
(33) Name of priority country	:NA	<b>4)Upendra Rajak</b>
(86) International Application No	:NA	<b>5)Tulala Rajasanthosh Kumar</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)Tikendra Nath Verma</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Shobha Lata Sinha</b>
Filing Date	:NA	<b>3)Rohit Kumar</b>
(62) Divisional to Application Number	:NA	<b>4)Upendra Rajak</b>
Filing Date	:NA	<b>5)Tulala Rajasanthosh Kumar</b>

(57) Abstract :

The dynamically device for balancing food carrying comprising having a gyro sense and balanced the movement. Also device function for detecting rotational motion of a spoon and compensating the same and more particularly relates generally to unintentional muscle movements, and in particular but not exclusively, relates to tracking unintentional muscle movements of a user and stabilizing a handheld tool while it is being used by the user. The system comprising spoon portion capable of holding food, a main body movable along with the spoon portion, a first driving portion disposed between the spoon portion and the main body and rotating the spoon portion about the longitudinal direction of the main body, A second driving part disposed between the spoon part and the main body and rotating the spoon part in a direction perpendicular to the rotating direction of the first driving part, gyro sensor for detecting the movement of main body. [Figure 1]

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121019152 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SWARM INTELLIGENCE ENHANCEMENT EMPLOYING MACHINE LEARNING TO SCAN AND DETERMINE GLITCHES AND THEIR SOLUTION IN DEEP LEARNING

(51) International classification	:G06N0003080000, G06N0003040000, G06K0009620000, G06N0020000000, G05B0013020000	(71)Name of Applicant : <b>1)Dr. Ashwini Kumar Shrivastava</b> Address of Applicant :Department of Computer Science & Engineering, ITM Group of Institutions ITM Campus, Opp. Sithouli Railway Station, NH-75 Sithouli, Jhansi Road, Gwalior - 475001, Madhya Pradesh, India . Madhya Pradesh India <b>2)Raveendra kumar Bharati</b> <b>3)Manoj Kumar Srivastava</b> <b>4)Prof. (Dr.) Anil Kumar</b> <b>5)Dr. Rakesh Kumar Yadav</b> <b>6)Sunil Kumar</b> <b>7)Anurag Singh Yadav</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Ashwini Kumar Shrivastava</b> <b>2)Raveendra kumar Bharati</b> <b>3)Manoj Kumar Srivastava</b> <b>4)Prof. (Dr.) Anil Kumar</b> <b>5)Dr. Rakesh Kumar Yadav</b> <b>6)Sunil Kumar</b> <b>7)Anurag Singh Yadav</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SWARM INTELLIGENCE ENHANCEMENT EMPLOYING MACHINE LEARNING TO SCAN AND DETERMINE GLITCHES AND THEIR SOLUTION IN DEEP LEARNING The present subject matter disclosed herein relates to a method (100) of using machine learning to scan and detect glitches in deep learning, including deriving (101) attributes from data sets of the data module (201) and sending it to the processor, submitting (102) the attributes to the artificial neural networks to obtain classification results, wherein the artificial neural network determines whether the attributes exhibit an anomalous behavior and generating (103) the required action by an artificial intelligence (AI) after obtaining the classification results. The system includes a data module (201), a processor (202) for training a plurality of attributes to identify a plurality of defect types using an artificial neural network module (203) to generate quality information and an artificial intelligence module (204) to generate a recommendation for a next action if the quality does not meet a required threshold. REF. TO FIG. 1 AND 2

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121019433 A

(19) INDIA

(22) Date of filing of Application :28/04/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD TO IMPROVE GREEN MANUFACTURING IN AUTOMOBILE INDUSTRIES.

(51) International classification	:G06Q0010060000, G09B0019000000, B61L0027000000, C02F0103080000, B29C0045140000	(71) <b>Name of Applicant :</b> <b>1)Dr. NITIN PRABHU KULKARNI</b> Address of Applicant :SAUDAMINI CO-OP HOUSING SOCIETY, S.NO. 101/1, Flat No B2/11+12, BHUSARI COLONY, KOTHRUD, PUNE -411038, MH, INDIA. E-mail: nitinpulkarni24@gmail.com Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. NITIN PRABHU KULKARNI</b>
(33) Name of priority country	:NA	<b>2)Dr. INDRAYANI NITIN KULKARNI</b>
(86) International Application No	:NA	<b>3)Dr. AVINASH SAMBHAJI DESAI</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Our invention Method to Improve Green Manufacturing in Automobile Industries • is a system and related method to train and aid green manufacturers in identifying inefficiencies in product manufacturing processes and in improving such processes. The invented technology also includes an evaluation of an existing manufacturing operation and one or more training sessions to train representatives of the green manufacturing organization in process improvement methods. The invention is a training session includes a manufacturing process simulation and customizable presentation materials and the system and method further include value stream mapping to identify the value of process improvements made and a plan and means for implementing the process improvements. The invented technology also includes detailed forms templates and instructions for alternative means selectable by a manufacturer to implement the improvements and the system and method further include a process and means for following up on the implementation of the process improvements.

No. of Pages : 28 No. of Claims : 5

(54) Title of the invention : INTERLOCKING BRICK DESIGN

(51) International classification :C04B0028020000,  
E04B0002020000,  
B28B0005020000,  
E04C0001400000,  
C04B0020000000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)Namdeo Ruplal Pawar**  
**3)Tejas Namdeo Pawar**

(72)Name of Inventor :  
**1)Pratik Namdeo Pawar**  
**2)Namdeo Ruplal Pawar**  
**3)Tejas Namdeo Pawar**

(57) Abstract :

ABSTRACT Our Invention INTERLOCKING BRICK DESIGN is an interlocking brick made of using fly ash which is eco-friendly in brick manufacturing & that is used for wall filler with the method of installation interlocked with the help of cylindrical unit as in fig 5 with each other and also This invented brick design can also be used as a substitute for reinforced concrete structures like spool, columns and ringbalk, as in fig 7 thus not need to be plastered and painted because of its attractive appearance and color customization as in fig 6. This invention aims to cut down the cost of construction of cement, plaster, reinforcement and paint etc in building houses. The invention also aims to protect the environment as fly ash is a toxic material for nature. Initially industries decompose fly ash after coal combustion which reduces soil fertility so by using it in brick manufacturing, we are protecting environment. The brick is design in such a way that the material is to be saved. That™s why the brick is made hollow in nature. The brick offers gap adjustment concept which is not provided by other interlocking brick in the market. See fig 8. The brick function as structural and nonstructural walls and the interlocked brick function is distinguished against structural and nonstructural based on the compressive strength test at 28 to 29 days in the laboratory of the structure and building materials. The Mix design is carried out in the laboratory with a cement water factor (FAS) 0.33; 0.44; 0.55 and 18 mixed material variations with 16 specimen test for each mixture and the test objects used is 50 x 50 x 50 mm. FAS 0.44 and a mixture of material 1:2:2 and 1:2:4 are selected because meet the required workability and have a hollow concrete brick compressive strength, which are including quality levels 1 and III with an average compressive strength of 89.66 kg / m<sup>3</sup> and 37.55 kg / m<sup>3</sup> at the age of concrete reaching 29 days. Depth of cylindrical hole 3cm. Diameter of cylinder hole 3cm. Cylindrical unit as in fig 5 is 6cm and diameter is 3 cm. Dimension of brick 24—11—10cm.

No. of Pages : 24 No. of Claims : 9



(54) Title of the invention : HEALTH MONITORING AND NOTIFICATION USING USER MOBILE SENSER UNDER AI-BASED COMPLEX PROGRAMMING CODE.

<p>(51) International classification :A61B0005020500, G16H0010600000, G06Q0050220000, A61B0005000000, G16H0050300000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)<b>Name of Applicant :</b></p> <p><b>1)Nilesh Vasant Ingale (Assistant Professor)</b> Address of Applicant :Computer Engineering, COET, North Maharashtra Knowledge City, NH-6, In front of NMU Gate, Jalgaon, MH, India. nileshvingale@gmail.com Maharashtra India</p> <p><b>2)Dr. Dinesh Jain (Professor)</b></p> <p><b>3)Sambit Satpathy (Assistant Professor)</b></p> <p><b>4)Prof. Chetan Eknath Khedkar</b></p> <p><b>5)Prof.(Dr.) S. B. Chordiya (Director-SIMMC-Campus)</b></p> <p><b>6)Prof. (Dr.) B.K. Sarkar (International Patent Motivation Speaker)</b></p> <p>(72)<b>Name of Inventor :</b></p> <p><b>1)Nilesh Vasant Ingale (Assistant Professor)</b></p> <p><b>2)Dr. Dinesh Jain (Professor)</b></p> <p><b>3)Sambit Satpathy (Assistant Professor)</b></p> <p><b>4)Prof. Chetan Eknath Khedkar</b></p> <p><b>5)Prof.(Dr.) S. B. Chordiya (Director-SIMMC-Campus)</b></p> <p><b>6)Prof. (Dr.) B.K. Sarkar (International Patent Motivation Speaker)</b></p>
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(57) Abstract :

Health Monitoring and Notification using User Mobile Senser under AI- Based Complex Programming Code. ABSTRACT Our Invention Health Monitoring and Notification using User Mobile Senser under AI- Based Complex Programming Code is a AI in advanced Healthcare needed to bring real, complex actionable insights and Individualized insights in real-time for patients and Doctors to support treatment decisions. We need a Patient Centred Platform for integrating local EHR Data Patient Data, Prescriptions, Monitoring, Clinical advanced research Data and other available data. The paper proposes a generic advanced architecture for enabling AI based healthcare analytics Platform by using open sources Technologies Apache beam, Apache Flink Apache Spark, Apache NiFi, Kafka, Tachyon, Gluster FS, NoSQL- Elasticsearch, Cassandra. The invention is to a GSM and GPS and also Statistics shows that hypertensive heart disease and blood pressure are risk factors for high death rate to decrease it a preventive measure should be applied providing a real-time health monitoring system to save patients life at acceptable time. The invention is to provide an effective system model, that will track, trace, and monitor patient vital readings in order to provide efficient medical services in time and by using sensors, the data will be captured and compared with a predefined threshold. The study focuses on heartbeat rate, and body temperature, thus in case of emergency an SMS will be sent to the Doctors mobile containing measured values and position.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021034 A

(19) INDIA

(22) Date of filing of Application :10/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HANDY GROUNDNUT HARVESTER

(51) International classification	:A61K0036480000, G07C0005080000, G06F0016230000, H04N0001407000, B23K0026066000	(71)Name of Applicant : <b>1)Dr Yogini Dilip Borole</b> Address of Applicant :G H Raisoni Institute of Engineering and Technology, Gat No 1200,Domkhel Road Wagholi, Pune 412207 Maharashtra India <b>2)Prashant Keshavrao Dhutekar</b> <b>3)Shrikant G. Ingle</b> <b>4)Kirankumar Chandrakant Labade</b> <b>5)Dr Subrat Kumar Bhuyan</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr Yogini Dilip Borole</b> <b>2)Prashant Keshavrao Dhutekar</b> <b>3)Shrikant G. Ingle</b> <b>4)Kirankumar Chandrakant Labade</b> <b>5)Dr Subrat Kumar Bhuyan</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses the handy groundnut harvester. Groundnut is one of the most significant oilseed crops in the world and it relates to the beans family. Harvesting is a crucial step in groundnut processing and it can be executed by hand or machines. The hand-harvesting method is labour-intensive, slow, and monotonous. Numbers of groundnut harvesting devices are ready in the market but they are huge in size, expensive, and not fitting for domestic utilization, they are extremely suitable for wide-scale applications where mass production is required. Hence it is essential to design and manufacture a compact groundnut harvesting mechanism for domestic utilization. [To be published with Figure.1]

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021172 A

(19) INDIA

(22) Date of filing of Application :10/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SENSOR FUSION PRECISION TECHNOLOGY IN AGRICULTURAL AND ITS METHOD AND CONTROLLING PARAMETERS. •

<p>(51) International classification</p> <p>:A01C0007080000, A01C0007100000, A01C0007200000, G05B0015020000, G06Q0050020000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Anurag Shrivastava</b> Address of Applicant :Principal And Professor ECE, Lakshmi Narain College of Technology and Science indore, 453111 India Madhya Pradesh India</p> <p><b>2)Dr. Ezhilarasi Nagarajan</b> <b>3)Deepak Shripat Mane</b> <b>4)Dr. Konka Dilip Kumar</b> <b>5)Dr.Tanneeru Srinivasa Rao</b> <b>6)Mr.SUDHEER KUMAR BATTULA</b> <b>7)Mohammed Yaseen Ahmed</b> <b>8)Dr. Shaik Jakeer Hussain</b> <b>9)Dr Ashok Kumar Koshariya</b> <b>10)Mrs Fatima M Inamdar</b> <b>11)Tulala Rajasanthosh Kumar</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Anurag Shrivastava</b> <b>2)Dr. Ezhilarasi Nagarajan</b> <b>3)Deepak Shripat Mane</b> <b>4)Dr. Konka Dilip Kumar</b> <b>5)Dr.Tanneeru Srinivasa Rao</b> <b>6)Mr.SUDHEER KUMAR BATTULA</b> <b>7)Mohammed Yaseen Ahmed</b> <b>8)Dr. Shaik Jakeer Hussain</b> <b>9)Dr Ashok Kumar Koshariya</b> <b>10)Mrs Fatima M Inamdar</b> <b>11)Tulala Rajasanthosh Kumar</b></p>
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(57) Abstract :

A sensor fusion precision technology in agricultural and its method and controlling parameters comprising to the agriculture technology. The present invention more particularly relates to the sensor based technology and method to be used to the agriculture products and process for same. The present invention more particularly relates to the precise work and technique to develop more progress into the crop seeds and agriculture products and used and also collect more accuracy work. Agricultural product distribution machines using one or greater velocity and distance size structures. An agricultural product distribution gadget can be, for example, an air seeder, a precision planter, a sprayer or the like. And output data comprises at least one of operational parameters for at least one of the plurality of output devices, plant lighting recipes, plant growth recipes, pest control programs, disinfection procedures, and yield prediction by using latest technique of the sensor fusion and method thereof.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021192 A

(19) INDIA

(22) Date of filing of Application :11/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN INTEGRATED MASTER CYLINDER ASSEMBLY.

(51) International classification	:B60T0013565000, B60T0011220000, B60T0011200000, B60T0011160000, B60T0008420000	(71) <b>Name of Applicant :</b> <b>1)ADVIK HI-TECH PVT LTD</b> Address of Applicant :PLOT NO.B-5, CHAKAN INDUSTRIAL AREA, PHASE II, VILLAGE: VASULI, TALUKA: KHED, DIST.: PUNE, MAHARASHTRA, INDIA - 410 501. Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GAWADE SHYAM BALARAM</b>
(33) Name of priority country	:NA	<b>2)KAKADE KAMALKISHOR BABURAO</b>
(86) International Application No	:NA	<b>3)THORAT VISHAL MINANATH</b>
Filing Date	:NA	<b>4)KANDHARKAR NITISH SUDHAKARRAO</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT AN INTEGRATED MASTER CYLINDER ASSEMBLY** An integrated master cylinder assembly (100) for two wheeled vehicle is disclosed, The integrated master cylinder assembly (100) includes a master body (210), a reservoir (220), a front input hose (220a), a rear input hose (220b), plurality of pivot (P1, P2, P3) and plurality of links (310, 320, 330, 340, 350. 360, 370) operatively connected with each other through plurality of pin joints (H1, H2, H3, H4). The integrated master cylinder assembly (100) is configured to provide a synchronous deceleration as well as an individual deceleration. Illustrative Fig. 2

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : LEAST AFFLICTED LOAD REBALANCER SYSTEM AND METHOD

(51) International classification	:G06F0009455000, G06F0009500000, H04L0029080000, G06F0008650000, G06F0011200000	(71) <b>Name of Applicant :</b> <b>1)YADAV, Jyoti</b> Address of Applicant :SANKALP • , Survey No. 70/3, Gajanan Nagar, Lane No. 2, Pimple Gurav, Pune, Maharashtra - 411061 Maharashtra India
(31) Priority Document No	:NA	<b>2)KUMBHAR, Vijaya</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)YADAV, Jyoti</b>
(86) International Application No	:NA	<b>2)KUMBHAR, Vijaya</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A least afflicted load rebalancer system and method therein is disclosed. The system comprises at least one data center (103) consisting of 'm' physical machines (servers); at least one processor on each server to execute user requests (101). Each server consists of 'n' virtual machines, wherein there are 'mn' virtual machines on which said user requests (101) get distributed. Each virtual machine comprises a virtual machine images space, a memory space, a bandwidth of internet, and a Least Afflicted Load Balancing Algorithm (LALBA™) (102). The system with LALBA (102) computes a cumulative load (i.e., Total Load (L)), ascertains the load of each virtual machine using L™, identifies the virtual machine with a minimum load value to assign for the new user request, and balances the load so that the user request (101) is directed to the server that would be least afflicted while handling the user request (101).

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021271 A

(19) INDIA

(22) Date of filing of Application :11/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A MULTI SOURCE ENERGY EFFICIENT DISTILLATION AND DRYING SYSTEM •

(51) International classification	:B01D0005000000, F23G0007000000, C02F0001140000, C02F0001040000, C10B0053020000	(71) <b>Name of Applicant :</b> <b>1)PRIMAPEX TECHNOVATORS PRIVATE LIMITED</b> Address of Applicant :Q. NO.12/B, STREET 6, SECTOR 4, BHILAI, DISTRICT: DURG, CHHATTISGARH 490001, INDIA Chattisgarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Arindam Mitra</b>
(33) Name of priority country	:NA	<b>2)Deepak Rathore</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A MULTI SOURCE ENERGY EFFICIENT DISTILLATION AND DRYING SYSTEM Described herein is an energy efficient consolidated apparatus (1000) comprising of a dual layered glass structure (1013) with embedded water channels, multiple trays (1001a to 1001d), distillate collection tank (1002) with level indicator (1003) and outlet (1004), cold water tank (1009) with fixed solar panel (1011), pump (1005), burner (2004) and wires (6007a and 6007b) to be connected with single phase electricity supply. The proposed apparatus (1000) is capable of operating with either individual or a combination of energy sources among solar energy, electricity, carbon based fuels or biomass for production of distilled water, go-ark, potpourris and dry herbs. The proposed apparatus (1000) has certain advantages such as improved efficiency, low or zero fuel cost by utilizing combination of energy sources, maintain continuity of operation by choosing among the different energy sources, improved condensation and moisture extraction, enclosed structure, and requires minimum human intervention. FIG. 1

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021301 A

(19) INDIA

(22) Date of filing of Application :11/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ACUPRESSURE THERAPY PLATE

(51) International classification	:A61H0039040000, A43B0007140000, A61H0015000000, A61H0033040000, A61H0039000000	(71) <b>Name of Applicant :</b> <b>1)Parsana Health Centre Pvt. Ltd.</b> Address of Applicant :C-401, Rudra Square, Judges Bungalow Cross Roads, Bodakdev, Ahmedabad-380054 Gujarat, India. Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Parsana Vijay Ravjibhai</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ACUPRESSURE THERAPY PLATE The present invention provides an acupressure therapy plate (11). The present invention containing preferred plastic material base has a lower non-slip surface (13) and an upper surface (12) that includes a multiplicity of bulges (14) that provide the acupressure massage to the bottom of the feet. The bulges (14) are designed to apply an optimized pressure point to the feet. The bulges (14) are made in the form of irregularities of arbitrary/non-uniform shape and the bulges (14) are made directly on the outer surface. Further, the center bulge (15) has greater height than other bulges (14) and it has a round/oval shape. The center bulge (15) is provided to apply the acupressure on a user arch and toe joint of the feet. Technique effect of the present invention is pressuring points on the feet stimulates the circulation of blood that beneficially treats the corresponding organs/whole body and its simple in structure.

No. of Pages : 37 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021343 A

(19) INDIA

(22) Date of filing of Application :11/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SOLAR POWERED AUTONOMOUS ROBOTIC SYSTEM AND METHOD FOR PERFORMING ELEMENTARY AGRICULTURAL TASKS

(51) International classification	:G06N0007000000, B25J0009160000, B25J0005000000, G06F0021310000, G06K0009000000	(71)Name of Applicant : <b>1)Mr. Ajay A. Lohar</b> Address of Applicant :Ramrao Adik Institute of Technology Dr. D.Y. Patil Vidyanagar, Sector 7, Phase - I Nerul, Navi Mumbai Maharashtra India 400706 Maharashtra India
(31) Priority Document No	:NA	<b>2)Mr. Tushar D. Kurne</b>
(32) Priority Date	:NA	<b>3)Mr. Swapnil P. Patil</b>
(33) Name of priority country	:NA	<b>4)Ms. Sanjivani C. Chakote</b>
(86) International Application No	:NA	<b>5)Dr. Chandrakant J. Gaikwad</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Mr. Ajay A. Lohar</b>
(61) Patent of Addition to Application	:NA	<b>2)Mr. Tushar D. Kurne</b>
Number	:NA	<b>3)Mr. Swapnil P. Patil</b>
Filing Date	:NA	<b>4)Ms. Sanjivani C. Chakote</b>
(62) Divisional to Application Number	:NA	<b>5)Dr. Chandrakant J. Gaikwad</b>
Filing Date	:NA	

(57) Abstract :

The invention describes a solar-powered autonomous robotic system with a primary unit which is a 4 wheel drive vehicle and a set of attachable modules. The system performs 5 elementary agricultural tasks with the help of these modules, these tasks correspond to 5 different modes of operation: sowing, applying fertilizers, weed detection and extermination, real-time crop health monitoring, disease detection and disinsectization. The operation of the whole system is controlled using a GPU enabled central processing unit and microcontrollers. The main processor runs the operating system for the robot along with the computer vision and navigation algorithm the whole system is equipped with multiple cameras and sensors to carry out the operation.

No. of Pages : 33 No. of Claims : 11



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021392 A

(19) INDIA

(22) Date of filing of Application :12/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DESIGN AND LAYOUT OF HEAT EXCHANGING TUBULAR PASSAGES FOR HEATING AND COOLING OF AMBIENT AIR THROUGH NATURAL UNDERGROUND SOIL.

(51) International classification	:F24F0005000000, G06F0113140000, F24F0001022000, F28D0005000000, E04F0015080000	(71) <b>Name of Applicant :</b> <b>1)Kommineni Venkateshwara Rao</b> Address of Applicant :F-6/4, Proffesor <sup>TM</sup> s Colony,Bhopal- 462002 Madhya Pradesh India <b>2)Vishvendra Nath Bartaria</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Kommineni Venkateshwara Rao</b>
(33) Name of priority country	:NA	<b>2)Vishvendra Nath Bartaria</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The indoor and outdoor environment is getting polluted by the natural and human made activities . The geave air pollution problem has been attracting the attention of all the scientific and research community to find the ways to prevent the atmosphere from being polluted . Indoor environments are also desired to have thermal conditions as per human comfort conditions . There and certain conventional methods normally used to get the comforts conditions. Although all these conventional methods are sameway, contributing to the air pollution as these use the electricity for their operation such an Air Conditioner and blowers use electricity for their operation. This work is primarily focused on the design of some passages for the ambient air where they may be suitably laid underground so that the required heating or cooling of ambient air may be achieved. The calculations have been performed for a designed tubular geometry of certain planned material for heat exchange. Accordingly a layout of this passage has also been designed to het the best benefit . A circular pipe of UPVC material of 200 mm id and 4 kg/cm2 (0.40MPa) class 2 is designed and obtained from the supplier. The layout has also been designed as per the drawing attached herewith. The configuration of the pipeline has been designed from the calculation on heat transfer and fluid flow through the passeges.

No. of Pages : 4 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021393 A

(19) INDIA

(22) Date of filing of Application :12/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SOLAR AIR DRIVING SYSTEM USEFUL IN RESIDENTIAL VENTILATION.

(51) International classification	:B01J0035000000, B01D0053720000, F24S0010900000, F24D0011020000, F24S0010200000	(71) <b>Name of Applicant :</b> <b>1)Kommineni Venkateshwara Rao</b> Address of Applicant :F-6/4, Profesor™s Colony,Bhopal (M.P.) India. PIN-462002 Madhya Pradesh India <b>2)Vishvendra Nath Bartaria</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Kommineni Venkateshwara Rao</b>
(33) Name of priority country	:NA	<b>2)Vishvendra Nath Bartaria</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Solar energy is abundantly available and its usage is free and inexhaustible. Air is required to be driven from the spaces for the ventilation and removal of dust, dirt, odour and other contaminates. In most of the applications a blower is used for the purpose which consumes huge energy. A system has been designed and developed to drive the air by the use of solar energy. The system is developed for the improved performance and for the easy residential roof top installation purposes. A base containing specially coated black surface absorbs the solar radiations falling on it. The surface is housed in a wooden box of designed dimensions for improved performance wherein the solar radiations are allowed to come through a glass screen. The whole system is given a mechanical arrangement to change its inclination with the horizontal. The system is effective in all weather conditions and suitable for residential air ventilation applications.

No. of Pages : 4 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021456 A

(19) INDIA

(22) Date of filing of Application :12/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FULLY AUTOMATIC VENDING MACHINE WITH STEAM BASED COOKING AND PROCESS THEREOF

(51) International classification	:G07F0009020000, G06Q0020180000, A47J0027040000, G07F0011000000, G07F0013060000	(71) <b>Name of Applicant :</b> <b>1)VENDIBOT (OPC) PRIVATE LIMITED</b> Address of Applicant :C-47 Countywalk, A B Road Bypass, Indore Madhya Pradesh India 452016 Madhya Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Pranav Singhi</b>
(33) Name of priority country	:NA	<b>2)Akshay Shandilya</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The present invention discloses a fully automatic vending machine with steam based cooking to serve choices of food items as per user<sup>TM</sup>s selection through user interface and its process thereof. The vending machine is fully automatic which can cook, dispense and transact the food items without any human intervention. Food containers inside the machine are transferred automatically to the cooking compartment where the food is cooked in closed system using steam and hot water under pressure. Disposable cutlery is dispensed automatically along with the food container. This machine optionally has payment module for physical as well as digital payments. The scalability and flexibility of machine design and components provides machine the capability to be used in versatile application areas.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021599 A

(19) INDIA

(22) Date of filing of Application :13/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : IN THE WAY OF REAL-WORLD EXPERIENCE - A MACHINE LEARNING APPROACH TO OBJECT IDENTIFICATION FOR MIXED REALITY CONTEXT IN DIGITAL MARKETING

(51) International classification	:G06T0019000000, G06Q0030020000, G06N0020000000, G06N0003080000, G06K0009620000	(71) <b>Name of Applicant :</b> <b>1)SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)</b> Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVAL, TAL MULSHI, PUNE, MAHARASHTRA, INDIA, PIN CODE: 411 045 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RAMAKRISHNAN RAMAN</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Mixed Reality (MR) mechanization immerse users in a world where virtual things and metadata coexist with their surroundings. This expands new and exciting opportunities in a variety of fields, namely education, training, and healthcare. Recognizing physical objects in the world offers contextual cues that can help users perform better on complicated tasks and reduce their cognitive load. However, due to hardware limitations, this aspect of MR is still in its infancy. MR headsets can only identify moving objects right now; they can't tell the difference between physical items that a consumer may need in their workplace. To fix these issues, we present a novel approach and process that involves separating the specific functions of image recognition and graphical component rendering at the hardware level. To help contextual awareness, we use Machine Learning-based object recognition, Mixed Reality, and a portable IoT Edge-Computing framework. We explain the approach's application. To function a Model integration employs an Edge System and identifies objects in order to obtain knowledge about the user's external surroundings, while the MR device provides tactical awareness. Through MR we can able to include this method in digital marketing where the portrayal of brands expansion with audience which will enhance the products and experience real world experience.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021601 A

(19) INDIA

(22) Date of filing of Application :13/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MARKETING OF DIGITAL ENTERTAINMENT CONTENT, THE IMPACT OF CONTENT SAMPLING STRATEGIES

(51) International classification	:G06Q0030020000, H04N0005440000, H04N0005445000, G06F0016430000, H04N0009310000	(71) <b>Name of Applicant :</b> <b>1)SYMBIOSIS INSTITUE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL(DEEMED UNIVERSITY)</b> Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVAL, TAL MULSHI, PUNE, MAHARASHTRA, INDIA, PIN CODE: 411 045 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RAMAKRISHNAN RAMAN</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Consumers can sample a limited part of a product for free thanks to product sampling mechanism. Due to the uncertainty involved with the consumption of information products, digital entertainment services will benefit from sampling. Firms provide some content for free to entice customers and make them buy a set of products or services. Today digital content is being delivered by technology and digital media is changing the way products and services are delivered to customers. To successfully market digital content, providers must attract customer attention and it is not easy, as there is high degree of confusion surrounding the consumption of certain digital products and services. Free programming is often used by service providers to provide details of digital content. The feasibility of a content sampling approach for on-demand television content, a special category of entertainment products, is investigated. Our research on customer engagement and unforceful ethical approach which can impact decision making under volatility, as well as the use of information of digital content, was prepared by relevant hypotheses from the marketing and information systems disciplines.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021666 A

(19) INDIA

(22) Date of filing of Application :13/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A CRYPTOSYSTEM FOR DATA TRANSFER THROUGH SMART SELFMAP

<p>(51) International classification :G06F0021100000, H04L0009060000, H04L0009000000, H04L0009080000, H04L0029060000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number:NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Dr. G. Murugan</b> Address of Applicant :Professor in Computer Engineering, St. John College of Engineering and Management, Vevoor, Manor Road, Palghar (E), Palghar 401404. Maharashtra, India Maharashtra India</p> <p><b>2)Mr. Shaik Mohammed Rafi</b> <b>3)Mr. Sankararao Majji</b> <b>4)Dr. T.K.Shaik Shavali</b> <b>5)Dr D.Vijaya Saradhi</b> <b>6)Dr. Sachin Bhat</b> <b>7)Mr. Alaka Ananth</b> <b>8)Mr. Shashi Kant Gupta</b> <b>9)Dr. Harikumar Pallathadka</b> <b>10)Mr. Romit Prabhakar Dhawale</b> <b>11)Kaviyaraj R</b></p> <p>(72)Name of Inventor : <b>1)Dr. G. Murugan</b> <b>2)Mr. Shaik Mohammed Rafi</b> <b>3)Mr. Sankararao Majji</b> <b>4)Dr. T.K.Shaik Shavali</b> <b>5)Dr D.Vijaya Saradhi</b> <b>6)Dr. Sachin Bhat</b> <b>7)Mr. Alaka Ananth</b> <b>8)Mr. Shashi Kant Gupta</b> <b>9)Dr. Harikumar Pallathadka</b> <b>10)Mr. Romit Prabhakar Dhawale</b> <b>11)Kaviyaraj R</b></p>
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(57) Abstract :

Cryptography is the study of different methods of encryption and decryption of the information or message or data. Cryptanalysis is the study of breaking of different techniques of encryption by finding the weakness of the existing techniques. Nowadays almost all the valuable information or data are transmitted over computer networks or Internet and these are easily hacked by the intruders and hence it is required to be protected. If a sender wants to send information or data, any one method of cryptography is to be used for the protection of data. We proposed here one of the best method is selfmap (SM) cryptosystem.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121021748 A

(19) INDIA

(22) Date of filing of Application :13/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN INVESTIGATION ON VARIOUS INSULATING MATERIALS AND THICKNESS FOR VAPOUR COMPRESSION REFRIGERATION SYSTEM. •

(51) International classification	:H04L0009320000, F25B0040020000, F25B0001100000, H03F0001020000, H03F0003240000	(71)Name of Applicant : <b>1)Ashish Nathalal Khudaiwala</b> Address of Applicant :Shri Santoshi Krupa S/1 Arvind Nagar Society ,Ravaliya Plot Porbandar,360575 , Gujarat, INDIA Gujarat India <b>2)Dr. Manishkumar Kantilal Mistry</b> <b>3)Bumataria, Rakesh Kantilal</b> <b>4)Bharat Dahyabhai Parmar</b> <b>5)Vimalkumar Dahyabhai Sonara</b> <b>6)Jaydeep Manojkumar Bhatt</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Ashish Nathalal Khudaiwala</b> <b>2)Dr. Manishkumar Kantilal Mistry</b> <b>3)Bumataria, Rakesh Kantilal</b> <b>4)Bharat Dahyabhai Parmar</b> <b>5)Vimalkumar Dahyabhai Sonara</b> <b>6)Jaydeep Manojkumar Bhatt</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The investigation technique on various insulating materials and thickness using the vapour compression refrigeration system comprising by varying various insulating materials and various thicknesses of that insulating materials. The present invention relates to the effect of various types of insulating materials and its thickness has been addressed. PUF, GF300, GF450 and GF600 have been considered as an insulating material. The insulation thickness from 5mm to 25 mm in a gap of 5mm have been varied during testing. Performance analysis without superheating and subcooling as well as with superheating and subcooling are considered in investigation. Results of refrigeration effect, compression work, COP and EER are plotted for various insulating materials by considering its thickness. PUF as an insulation is most affective insulator as compared with GF300, GF450 and GF600. The EER of VCERS using PUF as an insulator had 8.7% to 12.1% higher EER than GF300, 21.4% to 25% higher EER than GF450. [

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : DIGITAL PORTPEDOBARO DEVICE

(51) International classification	:A61B0005000000, A61B0005103000, A61B0005110000, A43B0007140000, A61B0005048800	(71)Name of Applicant : <b>1)Mr. Arun D. Sonar (Limgaokar)</b> Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri Colony, Pune, Maharashtra - 411018 Maharashtra India <b>2)Dr. Shilpa Khandare (PT)</b> <b>3)Dr. Tushar J. Palekar (Ph.D)</b> <b>4)Ms. Revati Mulay</b> <b>5)Mr. Shreyas Shashikant Banait</b> <b>6)Mr. Yash Nandkumar Jande</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Mr. Arun D. Sonar (Limgaokar)</b> <b>2)Dr. Shilpa Khandare (PT)</b> <b>3)Dr. Tushar J. Palekar (Ph.D)</b> <b>4)Ms. Revati Mulay</b> <b>5)Mr. Shreyas Shashikant Banait</b> <b>6)Mr. Yash Nandkumar Jande</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The feet are the most important structures for weight bearing and shock absorption in performing various activities of daily living like standing, walking, running etc. For performing these activities, maintenance of static and dynamic balance is very essential and requires the interaction of multiple joint kinetics and kinematics. Any slight change in the body kinematics can directly affect this foot plantar pressure leading to various abnormalities of weight bearing. People with hemiparesis/hemiplegia following a cerebrovascular accident have difficulty bearing weight on the affected lower limb. This also causes difficulty in transferring weight from non-affected foot to the affected foot. Foot pressure distribution assessment is therefore of utmost utility in clinical setups to help identify anatomical foot deformities, aid the diagnosis and treatment of balance and gait disorders and falls, as well lead to strategies for preventing various other neurological deficits. Digital PortPedoBaro Device systems use a flat, rigid arrangement of pressure sensors in a matrix configuration and implanted in the supporting base. These platforms have a wide range of applications, including, gait analysis for clinical evaluations, postural assessment and performance analysis in sport motions and gestures, assessment of foot plantar pressure, balance deficits in static mode. Digital PortPedoBaro Device is a low-cost device capable of measuring the disturbances in weight. It is portable, light weight and user friendly. This device is calibrated against standard weights.

No. of Pages : 15 No. of Claims : 7



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041024693 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYNCHRONISED HYBRID POWER ASSIST

(51) International classification	:B60K0006480000, B60W0010080000, B60W0020000000, B60W0010060000, B60K0006460000	(71) <b>Name of Applicant :</b> <b>1)BLAER MOTORS PVT. LTD</b> Address of Applicant :Plot.No 7, Puniyakotti Street, Thundalam, Chennai 600077 Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ASHWIN BADRI</b>
(33) Name of priority country	:NA	<b>2)NIRANJAN KUMAR K</b>
(86) International Application No	:NA	<b>3)ABINESH EKAMBARAM</b>
Filing Date	:NA	<b>4)ADARSH LAKSHMANAN</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYNCHRONISED HYBRID POWER ASSIST This disclosure relates to a compact brushless DC motor/generator (GM1) coupled with a secondary drive unit which is an internal combustion engine (ICE) through a power transmission system like electronic/electromagnetic clutch or any other mechanical device which engages and disengages power transmission which makes it a parallel hybrid system or series hybrid system. Most Illustrative Drawing: FIG.1

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041025328 A

(19) INDIA

(22) Date of filing of Application :16/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : CUSTOMIZED CUSHION/PILLOW DISPENSING SYSTEM AND METHOD THEREOF

(51) International classification	:A47G0009100000, A47G0009000000, D04B0001140000, D04B0021160000, A47K0010320000	(71) <b>Name of Applicant :</b> <b>1)MARTIN M JOSEPH</b> Address of Applicant :39/4152, Ravipuram, M.G. Road, Cochin Kerala India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MARTIN M JOSEPH</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of customization of articles, particularly dispensing customized pillows or cushions to the user. More particularly, it relates to a system for production of customized cushion at a point of sale. The customized cushion/pillow dispensing system [100] comprising: a motor [1], two or more storage silos/bins [2], a suction blower [3], a filling chamber [4], a weighing scale [5], a roll packing unit [6], a point of sale machine [7], a custom billed unit [50] and an electronically controllable unit [8] for setting determined parameters. Advantageously, the present invention enables a customer to prefer the fillings, shell shape, shell size and the like. It enables pillow making according to customers<sup>TM</sup> preference. FIGURE 5.

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041026770 A

(19) INDIA

(22) Date of filing of Application :24/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : UN-MODIFIED FULLER<sup>TM</sup>S EARTH CLAY AND CARBON BLACK REINFORCED ELASTOMERIC NANOCOMPOSITE AND METHOD THEREOF

(51) International classification	:B60C0001000000, C08K0003360000, C08K0003040000, C08K0003340000, C08F0210180000	(71) <b>Name of Applicant :</b> <b>1)TVS SRICHAKRA LTD</b> Address of Applicant :Vellarippatti, Melur Taluk, Madurai,Tamil nadu, India-625122. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SANKARAN KUMAR</b>
(33) Name of priority country	:NA	<b>2)NAIR VISHNU RAMACHANDRAN</b>
(86) International Application No	:NA	<b>3)KOTNEES DINESH KUMAR</b>
Filing Date	:NA	<b>4)KADAMBANATHAN THIAGARAJAN</b>
(87) International Publication No	: NA	<b>5)VISWANATHAN SIVARAMAKRISHNAN</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an elastomeric nanocomposite for tyre tread imparting excellent wet grip and superior processing characteristics. The elastomeric nanocomposite with reinforced dual filler composition comprising of elastomer(s) 100 by weight, fuller<sup>TM</sup>s earth clay preferable acicular in structure having a length of 10nm to 5000 nm and without any organic modification 10 70 parts by weight, carbon black 30 90 parts by weight and a rubber composition consisting of conventional additives. The invention further relates to a process of preparation of elastomeric nanocomposite.

No. of Pages : 31 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041033507 A

(19) INDIA

(22) Date of filing of Application :05/08/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : RUBBER COMPOSITION FOR MOTOR CYCLE TYRE TREADS USING MORINGA OLEIFERA OIL AND METHOD THEREOF

(51) International classification	:C08L0021000000, C08K0003360000, B60C0001000000, C08K0003040000, C08K0003013000	(71) <b>Name of Applicant :</b> <b>1)TVS SRICHAKRA LTD</b> Address of Applicant :Vellarippatti, Melur Taluk, Madurai Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KADAMBANATHAN THIAGARAJAN</b>
(33) Name of priority country	:NA	<b>2)SANKARAN KUMAR</b>
(86) International Application No	:NA	<b>3)BRINDHA SENTHILRAJA</b>
Filing Date	:NA	<b>4)VISWANATHAN SIVARAMAKRISHNAN</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of rubber, rubber processing and rubber compounding. Particularly, the present invention relates to a rubber composition for motor cycle tyre treads using naturally occurring Moringa oleifera oil. The composition comprises of reinforcing fillers, comprising of carbon black, silica, coupling agents, activators, anti-degradants, vulcanizing agents, primary accelerators and naturally occurring Moringa olifera oil that eliminates the use of aromatic oil and provides better winter traction along with dry traction and lower rolling resistance property.

No. of Pages : 28 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011786 A

(19) INDIA

(22) Date of filing of Application :19/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR OPTIMIZED AUDIO CONTENT BASED SEARCH

(51) International classification	:H04N0019510000, G06F0016610000, G10L0019160000, A61K0047200000, G09B0019060000	(71) <b>Name of Applicant :</b> <b>1)Red Brick Lane Marketing Solutions Private Limited</b> Address of Applicant :6th Floor, Salarpuria Sattva Magnificia Next to Tin Factory, Old Madras Road, Bengaluru-560016, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Harikrishnan Potty Narayanan</b>
(33) Name of priority country	:NA	<b>2)Shabeer Khan Parakkottu Palath</b>
(86) International Application No	:NA	<b>3)Anantha Padmanaban Arunachalam</b>
Filing Date	:NA	<b>4)Srikanth Konjeti</b>
(87) International Publication No	: NA	<b>5)Agam Jain</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Sajo Mathews</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

As uploaded herein

No. of Pages : 87 No. of Claims : 73

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011865 A

(19) INDIA

(22) Date of filing of Application :19/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD OF GENERATING A QUALITY INDEX FOR EXPERIENCE CENTERS USING MACHINE LEARNING MODEL

(51) International classification	:G06N0020000000, G06F0016953500, G06N0003080000, G06Q0010060000, G06N0005040000	(71) <b>Name of Applicant :</b> <b>1)TECHWORKS TRAVEL PVT.LTD</b> Address of Applicant :C-509, GOWRI APARTMENT, NEW BEL ROAD, RMV II STAGE, BANGLORE 560 054, KARNATAKA, INDIA Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Anand Manvi</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYSTEM AND METHOD OF GENERATING A QUALITY INDEX FOR EXPERIENCE CENTERS USING MACHINE LEARNING MODEL A method for generating a quality index based on an interest of a user (104) using a machine learning model (112) is provided. The method includes (i) upon receiving the interest of user, and a location, extracting data associated with experience centers matched to interest of user from various data sources (102A-N), (ii) analysing, the extracted data associated with experience centers to generate a first set of data, (iii) extracting a mapping of the interest of user with facilities and activities from extracted data and associating a strength factor that is derived based on mapping, (iv) determining weightage for facilities and activities assigned for data sources, (v) computing, using machine learning model, a quality index for each experience center by combining first set of data, weightage, and strength factor, and (vi) generating list of experience centers that are ranked based on relevance, and quality index based on interest of user. FIG. 6.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141017656 A

(19) INDIA

(22) Date of filing of Application :16/04/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PHYTO-BASED ANTIMICROBIAL ORGANIC SEED COATING FOR CONTROLLING THE SEED BORNE MICROBES IN ORGANIC FARMING

(51) International classification	:A23L0003350800, A23L0003347200, C05F0011000000, A01N0065080000, A61K0036000000	(71) <b>Name of Applicant :</b> <b>1)Dr. V. Veena</b> Address of Applicant :Department of Biotechnology, School of Applied Sciences REVA University, Bengaluru Karnataka- 560064 Karnataka India
(31) Priority Document No	:NA	<b>2)Dr. Harikrishnan A</b>
(32) Priority Date	:NA	<b>3)Ms Supreetha BS</b>
(33) Name of priority country	:NA	<b>4)Anuja Rajendra Nagpure</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr. V. Veena</b>
(87) International Publication No	: NA	<b>2)Dr. Harikrishnan A</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Ms Supreetha BS</b>
Filing Date	:NA	<b>4)Anuja Rajendra Nagpure</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This present investigation involves the commercially available medicinal plants and their extracts preparations that are organically prepared for the sustainable agriculture and seed preservations. These formulated mixtures were stable for long duration, ecofriendly, pheromones free and chemical free. These can be used for food preservation of cereals, grains and seeds to reduce the microbial growth and spoilage of food. These medicinal extracts are documented for the safer usage and easily cultivable for the preparations. The formulated phyto-based solids and sprays are very excellent for the organic farming and practices

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141020600 A

(19) INDIA

(22) Date of filing of Application :06/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PUGH MATRIX BASED DECISION MAKING FOR THE BORE WELL RESCUE SYSTEM

(51) International classification	:B60N0002000000, B66B0005000000, F21W0131100000, G10K0011160000, B29C0045660000	(71)Name of Applicant : <b>1)Mr.K. Sasikumar</b> Address of Applicant :Department of Mechanical Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu, India 642003. Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. K. Hariharan</b>
(32) Priority Date	:NA	<b>3)Dr. T. Ramkumar</b>
(33) Name of priority country	:NA	<b>4)Dr. M. Selvakumar</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mr.K. Sasikumar</b>
(87) International Publication No	: NA	<b>2)Dr. K. Hariharan</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr. T. Ramkumar</b>
Filing Date	:NA	<b>4)Dr. M. Selvakumar</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Pugh matrix based decision making for the bore well rescue system comprises of the stainless steel rope (1), it is monitored with the help of the IR camera (2) by computer connectivity. It reaches the child the left DC motor (3) rotated with the bevel gear (4) fitted on it thereby, it rotates the bevel gear fitted with the system also rotates by rotating the entire system according to the child's position. At the bottom there is the balloon setup (5) provided which is made of rubber and the plate is clamped with the length plate and the balloon made with rubber is provided between the plates (6). The DC motor (7) gets started, which is connected to the links. The links are connected with the holder plates (8) thereby, once the DC motor (7) rotates the link moves upwards and hold child.

No. of Pages : 15 No. of Claims : 3



(54) Title of the invention : SECURING MULTIMODAL BIOMETRIC TEMPLATE USING NATURE INSPIRED OPTIMIZATION ALGORITHMS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06K0009000000, G06T0001000000, G06F0021320000, G10L0019018000, G09C0005000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)<b>Name of Applicant :</b> <b>1)Vels Institute of Science, Technology &amp; Advanced Studies (VISTAS)</b> Address of Applicant :Vels Institute of Science, Technology &amp; Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Rd, Pllavaram, Chennai, Tamil Nadu, India 600117. Tamil Nadu India</p> <p>(72)<b>Name of Inventor :</b> <b>1)Dr.R.Devi</b> <b>2)Dr.P.Sujatha</b> <b>3)Dr.P.Sripriya</b> <b>4)Dr.K.Sharmila</b></p>
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(57) Abstract :

7. ABSTRACT OF THE INVENTION Over the last few years, the usage of online commercial applications such as banking transactions, shopping, e- governance, e-commerce have become very common. Hence, it is very essential to verify the person's identity for ensuring information security. This has resulted in the development of identifying people using a new technological area called Biometric authentication. Multi Factor Authentication (MFA) is an effective authentication system that requires two or more independent biometric characteristics (physiological or behavioral) for verifying person's identity. Physiological traits include fingerprint, iris, retina, palm print, hand geometry, etc., whereas behavioral traits are related to the person's behavior such as facial expression, voice, gait, etc. Biometric authentication works on the principle that YOU ARE YOUR OWN KEY . Even though the biometric authentication is more reliable, they are not properly secured and data leakage are still there. Such a leakage will have a direct impact on the individual. Therefore, it is essential to secure biometric traits using any of the information hiding techniques. In order to achieve this, in this work, we have chosen four biometric traits such as fingerprint, iris , retina and palm print and fuse them using fuzzy logic. The fused template is treated as a secret image which is again scrambled for higher security. The scrambled image is then embed into a cover image using a steganographic method. Since the embedding position plays a vital role that provides the robustness of the secret image, we have chosen Nature Inspired optimization techniques to compute the best fitness function that gives an optimum position to embed the secret image into the cover media. The robustness of the secret image is tested by applying some simulated attacks to the stego image is finally extracted and then unscrambled for tamper detection. The system remains robust and reliable since best optimum position is selected for embedding.

No. of Pages : 8 No. of Claims : 6

(54) Title of the invention : A DEVICE AND A METHOD FOR EXECUTING THE DRY AND CRYOGENIC BASED FRICTION STIR WELDING (FSW) OF THE NON-FERROUS METAL ALLOYS

(51) International classification	:B23K0020120000, F25D0003100000, B29K0027060000, C21D0001613000, B23K0020227000	(71)Name of Applicant : <b>1)A. N. Praveen Raj</b> Address of Applicant :14 NSK Nagar (No. 15 First Street Bashyam Nagar) Chrompet, Kancheepuram - 600 044, Tamil Nadu. Tamil Nadu India <b>2)K. Shanmuga Sundaram</b> <b>3)C. Chandrasekhara Sastry</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)A. N. Praveen Raj</b> <b>2)K. Shanmuga Sundaram</b> <b>3)C. Chandrasekhara Sastry</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

ABSTRACT A device for executing the liquid nitrogen based cryogenic aided friction stir welding of the metal alloy based workpiece comprises a single body FSW with a stepper motor (A) connected to a driving gear convertor (B) for directional conversion of the angle of rotation; a fixture assembly (C) fixedly affixed on the tail stock (D) for holding the at least two work piece; at least two work pieces (F) being friction stir welded by the friction created during the rotational movement assisted by the perpendicular alignment of the at least three tool profile (G); a thermocouple (H) in contact with the work pieces (F) and a thermocouple data acquisition system (E) positioned vertically below the tail stock (D) to coordinate with the said welding process in monitoring and maintaining the preset temperature around the weld region and a cryogenic assembly including the liquid nitrogen storage container made of aluminium and steel with a compressor, pressure regulator and pressure relief valves and the corresponding passages including the pneumatic hose, stainless steel pipes and braided stainless steel hose for directing the sub-zero liquid nitrogen at the region of weld. Further the said device executes a method of liquid nitrogen based cryogenic aided friction stir welding of the metal alloy based workpiece involving the steps of selecting the at least three profiles of tools including the involute profile, step type and thread profile; identifying the work piece of AA7075 aluminium alloy comprising zinc as the alloying element; aligning the said at least two work piece of AA7075 aluminium alloy sandwiched between the mandrel, plate and holders through the mechanical locking means and initiating the rotational process at a controlled speed for the directional movement against each other work piece for introducing the frictional energy in the weld forming region; supplying the cryogenic based liquid nitrogen from the tailor made set up onto the stir friction welded interface region of the said two work piece and finally performing an onward machining by rotating both the work pieces and directing the rotating element amidst the supply of the cryogenic liquid nitrogen at the region of weld and advancing the work pieces along a path in nitrogen atmosphere where a stir friction weld is to be formed, the element having a pre-defined geometry. FIG.1

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141020607 A

(19) INDIA

(22) Date of filing of Application :06/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A BIOMETRIC SYSTEM FOR MONITORING THE ATTENDANCE OF IT STUDENTS IN VISTAS

(51) International classification	:G07C0001100000, G06K0009000000, G06Q0050200000, G07C0001140000, G07C0001120000	(71) <b>Name of Applicant :</b> <b>1)Vels Institute of Science, Technology &amp; Advanced Studies (VISTAS)</b> Address of Applicant :Vels Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Rd, Pllavaram, Chennai, Tamil Nadu, India 600117. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr.K. Sharmila</b>
(33) Name of priority country	:NA	<b>2)Dr.R.Devi</b>
(86) International Application No	:NA	<b>3)Dr.T.Kamalakaran</b>
Filing Date	:NA	<b>4)Dr. C.Shanthi</b>
(87) International Publication No	: NA	<b>5)Dr.J.Jebathangam</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr.P.Sujatha</b>
Filing Date	:NA	<b>7)Mrs.L.Poongothni</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION Biometric attendance system is used for gargantuan purposes and is used in different industries such as workforce management, and has served as a potentially significant education-based tool for accurate student's attendance. An automated biometric system is developed for monitoring student's attendance late and absentia. The system consists of an iris sensor device to capture the iris image, a micro chip in their identity card which senses the location of student within a specified location, a database specifies the details of each student, a scanner for detecting the student's id card and their irises, a server communicating with the scanner and a device with a software for receiving and manipulating the attendance for the students. A class wise attendance report will be generated every week in order to find the continuous late comers and absentees. Attendance percentage will be generated every month. At the end of the semester a cumulative report of the attendance and class wise list is prepared for those students having less than 75% attendance. This is popularly implemented in various institutions due to the poka-yoke analysis of limitations and inaccuracies in the traditional methods of marking attendance for students. This attendance system is an automated process, and does not require any technical knowledge. Therefore, the facile process of checking-in and checking-out under the authenticator's regulation can yield potently precise in procuring the veracity of their presence. It provides a faster process to track student's attendance and it protects their identity and privacy. Our proposed method of biometric attendance can be first implemented for the students of IT in VISTAS and later incorporate to the entire university to ensure identification accuracy, prevention of errors and in eliminating proxy attendance even for identical twins. By using this, the faculty receives updates on the relevant apps by checking their roll number and the date, on a day to day basis on the attendance server. Additionally, monthly attendance can also be downloaded from the server. This helps the faculty members to perform aggregate calculation of the attendance percentage of each student.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141020608 A

(19) INDIA

(22) Date of filing of Application :06/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SPECIAL ALARM SYSTEM FOR PRESSURE COOKER WHISTLE INDICATOR WITH LID AND WHEELS

(51) International classification	:A47J0027080000, G10K0005000000, A47J0027090000, A47J0036060000, A63B0071060000	(71) <b>Name of Applicant :</b> <b>1)Vels Institute of Science, Technology &amp; Advanced Studies (VISTAS)</b> Address of Applicant :Vels Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Rd, Pllavaram, Chennai, Tamil Nadu, India 600117. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. C. Swaraj Paul</b>
(33) Name of priority country	:NA	<b>2)Dr. N.Kumar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION An automatic detection of number of whistles in pressure cooker with alarm system without any external electric power thus assisting to avoid the overcooking and to reduce the role of human for remembering the counts of whistle. At the top of whistle the indicator kit will be attached. The kit will comprise of a hanging lid which moves upward whenever the pressure releases. A set of Gear wheels are attached at the other end of the lid, which rotates to a certain angle when the lid moves up, thus indicates in a display with the number of whistles blown in accordance with the number of times the wheel moves. The Kit also contains an input lever box, where the number of whistles required for cooking a particular food type will be given as an analog input by rotating the final display wheel through a knob. Therefore the user can set the number of whistles required to cook manually.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141020617 A

(19) INDIA

(22) Date of filing of Application :06/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : STRESS METER USING PULSE AND SWEAT SENSOR

(51) International classification	:A61B0005024000, A61B0005000000, A61Q0019000000, A61M0021000000, D04B0001140000	(71) <b>Name of Applicant :</b> <b>1)Vels Institute of Science, Technology &amp; Advanced Studies (VISTAS)</b> Address of Applicant :Vels Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Rd, Pllavaram, Chennai, Tamil Nadu, India 600117. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ms.A.Josephin Arockia Dhivya</b>
(33) Name of priority country	:NA	<b>2)Dr.R.J.Hemalatha</b>
(86) International Application No	:NA	<b>3)U.Rithikka</b>
Filing Date	:NA	<b>4)S.Akshaya</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION The Stress meter allows you to access your emotional pain. If the stress is very high, it gives visual indication through LED display along with warning beep. It can predict the stress by change of Heart rate using Pulse sensor and change in electrical conductivity of skin and its temperature using Water sensor to know the Sweat rate with the help of Arduino microcontroller UNO atmega328. For the Pulse sensor we have used a finger detection sensor that helps to provide the heart rate per minute (bpm) and for the sweat detection we have used water sensor that detects the change in electrical conductivity of the skin via sweat secretion in the body and also the levels of pH that is maintained in the body.High stress causes sweating and leakage of water from blood vessels in the skin, this makes the skin moist and electrical conductivity increases.These levels of heart rate and sweat rate is indicated through buzzer (stress alarm) that can be controlled by Haptic feedback motors.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141020756 A

(19) INDIA

(22) Date of filing of Application :07/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : T.A.R.S THE AUTONOMOUS RHAPSODY SPIDER

(51) International classification	:A01G0025160000, G08B0021180000, A01G0007000000, A01G0013020000, G01N0033000000	(71) <b>Name of Applicant :</b> <b>1)VIT-AP UNIVERSITY</b> Address of Applicant :VIT-AP UNIVERSITY, Beside AP Secretariat, Near Vijayawada, Andhra Pradesh, India 522237. Andhra Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Pranav Kompally</b>
(33) Name of priority country	:NA	<b>2)Dr. S. Sibi Chakkaravarthy</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE INVENTION TARS is an all-terrain quadruped specifically designed for Agricultural field and crop health monitoring. The main aim of the project is to leverage this technology in botanical gardens to monitor plant health. The other application of it being monitoring the condition of the crop. T.A.R.S uses unique creep GAIT. It is specially programmed to mimic human and spider movement simultaneously. The program being quite small is written to have tars move over 500 steps at one command. DHT11 records hyperlocal weather data and calculates the health of the plant. This allows farmers/ gardeners to know the amount of pesticides to be sprayed/used. Further TARS can detect temperature at any high hyper-local (at a particular point where the TARS is) and detects the humidity (water percentage) and heat index present in the atmosphere. It can be controlled through internet or it can be accessible via Bluetooth. The skeleton is made up of PVA material (Poly Vinyl Alcohol) through 3-D printing.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141020757 A

(19) INDIA

(22) Date of filing of Application :07/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DISCRIMINATION OF VISUAL CHARACTERISTICS FOR THE RECOGNITION OF BRANDS AND MODELS OF VEHICLES USING REAL DATA AND CNN

(51) International classification	:G06K0009620000, G06N0003040000, G06K0009000000, G06K0009460000, G06N0003080000	(71) <b>Name of Applicant :</b> <b>1)Dr. N. KAVITHA</b> Address of Applicant :PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, INDRA GANESAN COLLEGE OF ENGINEERING, MANIKANDAM, TRICHY, TAMIL NADU - 620012. Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. K. RUBASOUNDAR</b>
(32) Priority Date	:NA	<b>3)Dr. S. ANAND</b>
(33) Name of priority country	:NA	<b>4)Dr. T. SATHISHKUMAR</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr. N. KAVITHA</b>
(87) International Publication No	: NA	<b>2)Dr. K. RUBASOUNDAR</b>
(61) Patent of Addition to Application	:NA	<b>3)Dr. S. ANAND</b>
Number	:NA	<b>4)Dr. T. SATHISHKUMAR</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Learning robust classifiers implies having sufficient data for training, especially if the training is carried out with CNNs. In addition, when a new vehicle model is released to the market, learning to recognize it involves collecting a lot of images of it then start learning again. This is why we are interested here in the use of 3D models to learn a classifier allowing, subsequently, to classify images. To learn a class of vehicles.it would . . then suffice to use the corresponding 3D model. A CNN-based vehicle makes and model classifier is then learned using these synthetic examples. To classify an actual vehicle during the test, the image contour map is calculated. This card is then sent to the classifier learned about synthetic data. Unfortunately, this type of approach does not work. The main reason for this failure lies in the notion of overfitting and domain adaptation. Indeed, CNN learned on synthetic contour data over-learns structures that are not present in actual contour images, in this, the learned CNN is not generalizable to real data. To overcome this problem, we investigated a hybrid solution. More specifically, we first propose to learn the characteristics discriminating visuals for the recognition of brands and models of vehicles using real data and CNN. Secondly, these characteristics are used to learn a classifier of makes and models of vehicles on synthetic images of contours. This classifier can then be used to recognize the make and model of a vehicle in an image real color and to associate it with the corresponding 3D model. The originality, of the approach lies in the properties of the characteristics. visuals learned from real images. These characteristics are invariant to color and outlines. In other words, the deep characteristics extracted of a color image and their outline maps are very similar.

No. of Pages : 19 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141020759 A

(19) INDIA

(22) Date of filing of Application :07/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SINGLE SWITCH THREE-LEVEL BUCK-BOOST POWER FACTOR CORRECTION CONVERTER FOR AC-DC APPLICATIONS

(51) International classification	:H02M0001420000, H02M0001120000, H02M0007217000, H05B0045370000, H02M0001000000	(71) <b>Name of Applicant :</b> <b>1)Dr.S.T.Jaya Christa</b> Address of Applicant :Associate Professor(Sr. Gr.), EEE DEPARTMENT, SIVAKASI, TAMILNADU, INDIA 626005. Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr.J.Gnanavadvel</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)Dr.S.T.Jaya Christa</b>
(86) International Application No	:NA	<b>2)Dr.J.Gnanavadvel</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Conventional rectifiers using front end diode bridge rectifiers or thyristors based rectifiers and high value of DC link capacitors draw highly distorted source current which is rich in harmonics and have very low power factor, unregulated output voltage and less efficiency. For improving power quality, dual output AC-DC converter is proposed for various DC powered applications. This new single switch topology enhances the converter efficiency and reduces the switching losses. This single switch, 3-level converter improves dynamic stability and operates efficiently even at minimum switching frequency. This proposed converter works in discontinuous mode operation and it reduces voltage stress on converter components and nullifies the electromagnetic interference problem. A MATLAB based simulation model of the proposed converter for power factor correction (PFC) is developed to verify that the power quality issues in the three-level AC-DC converter. The input current THD (Total Harmonic Distortion) is brought down below 5% as per the JEC 6100-3-2 standard for power quality. This converter can be used in BLDC motor drive, LED drive, battery charger etc.

No. of Pages : 15 No. of Claims : 6



(54) Title of the invention : AI BASED VISION GADGET FOR VISUALLY IMPAIRED PEOPLE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G09B0021000000, A61F0009080000, A61H0003060000, H04N0005225000, G02B0027010000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)MR. R. VIJAY</b> Address of Applicant :Assistant Professor, Department of Electrical Electronics Engineering, Saranathan College of Engineering, Vegkateshwara Nagar, Panjappur, Tiruchirappalli, Tamil Nadu, India 620 012. Tamil Nadu India</p> <p><b>2)MR. K.SWAMINATHAN</b> <b>3)MR. V. RAMKUMAR</b> <b>4)DR. C. VENNILA</b> <b>5)DR. TTM. KANNAN</b> <b>6)MR. M. MARIMUTHU</b> <b>7)MR. P. RAWPRAKASH</b> <b>8)MR. B. PARANTHAGAN</b> <b>9)MR. R. VENUGOPAL</b> <b>10)MR. R. SATHEESH</b></p> <p>(72)Name of Inventor :</p> <p><b>1)MR. R. VIJAY</b> <b>2)MR. K.SWAMINATHAN</b> <b>3)MR. V. RAMKUMAR</b> <b>4)DR. C. VENNILA</b> <b>5)DR. TTM. KANNAN</b> <b>6)MR. M. MARIMUTHU</b> <b>7)MR. P. RAWPRAKASH</b> <b>8)MR. B. PARANTHAGAN</b> <b>9)MR. R. VENUGOPAL</b> <b>10)MR. R. SATHEESH</b></p>
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(57) Abstract :

ABSTRACT This innovation relates to AI based gadget for visually impaired people. This goal of the invention is to provide blind (or) visually impaired individuals with portable light weighted, compact wearable head band device comprising all the functions needed to capture the image of object. AI based gadget are fitted in the head band and function of such device is rapid capture of image and text, while keeping the image acquisition procedure easy to perform by blind. This wearable head band type gadget allowing blind to read book and documents (or) printed objects and information converted into spokenwords.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022174 A

(19) INDIA

(22) Date of filing of Application :18/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM OF COVID-19 SMART SECURITY BAND WITH ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06N0003080000, G06Q0050100000, H04W0004700000, H04N0007180000, C07H0001060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Prabu.U</b> Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India Andhra Pradesh India</p> <p><b>2)Mr. Sachin Chauhan</b></p> <p><b>3)Dr. Pravin Subhash Gosavi</b></p> <p><b>4)Dr. Vidula Anil Adkar</b></p> <p><b>5)Dr. Abhinav Singhal</b></p> <p><b>6)Mr Ankit Tyagi</b></p> <p><b>7)Mrs. Shubhangi Chourasia</b></p> <p><b>8)Dr. Rakesh Kumar Malviya</b></p> <p><b>9)Mrs. Mohita Madaan</b></p> <p><b>10)Dr. Aleem Ali</b></p> <p><b>11)Dr. Abhishek Swaroop</b></p> <p><b>12)Dr. Vir Narayan</b></p> <p><b>13)Mohd Saleem</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Prabu.U</b></p> <p><b>2)Mr. Sachin Chauhan</b></p> <p><b>3)Dr. Pravin Subhash Gosavi</b></p> <p><b>4)Dr. Vidula Anil Adkar</b></p> <p><b>5)Dr. Abhinav Singhal</b></p> <p><b>6)Mr Ankit Tyagi</b></p> <p><b>7)Mrs. Shubhangi Chourasia</b></p> <p><b>8)Dr. Rakesh Kumar Malviya</b></p> <p><b>9)Mrs. Mohita Madaan</b></p> <p><b>10)Dr. Aleem Ali</b></p> <p><b>11)Dr. Abhishek Swaroop</b></p> <p><b>12)Dr. Vir Narayan</b></p> <p><b>13)Mohd Saleem</b></p>
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(57) Abstract :

The present invention relates to system of covid-19 smart security band with artificial intelligence and internet of things. The objective of the present invention is to solve the problems in the prior art technologies of management and monitoring of covid patient using internet of things technology.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022346 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : WASTE EGGSHELL BASED ECO CATALYST FOR TRANSESTERIFICATION REACTION

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p>Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p>Filing Date</p> <p>(62) Divisional to Application Number</p> <p>Filing Date</p>	<p>:C10L0001020000, C11C0003000000, C07C0067030000, C10L0001190000, B01J0023020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr.K.Rajaram, Gandhigram rural Institute -Deemed to be University</b> Address of Applicant :Guest Faculty, Department of physics, Gandhigram rural Institute -Deemed to be University, Gandhigram-624302 Dindigul Tamilnadu India. Email id : rajaramkgri@gmail.com Mobile No : 9840303071 Tamil Nadu India</p> <p><b>2)Rajat Srivastava, University of Petroleum and Energy Studies</b></p> <p><b>3)Dr.M.Parthasarathy, Vel Tech Rangarajan Dr.Sagunthala R&amp;D Institute of Science and Technology</b></p> <p><b>4)N.Murugu Nachippan, Vel Tech Rangarajan Dr.Sagunthala R&amp;D Institute of Science and Technology</b></p> <p><b>5)Dr.S.YASOTHA, M.Kumarasamy College of Engineering (Autonomous)</b></p> <p><b>6)S.SENTHILMURUGAN, SRMIST</b></p> <p><b>7)VISWANATHAN GANESH, Chalmers University of Technology</b></p> <p><b>8)Mr. Ashish Raju Pawar</b></p> <p><b>9)Mr. Mahesh Prakash Kumbhare</b></p> <p><b>10)Dr.Sourabh Kumar Jain, Research Foundation of India</b></p> <p><b>11)Rohan J, Erode Sengunthar Engineering College</b></p> <p><b>12)Dr. Makarand Upadhyaya, BITS, Pilani</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr.K.Rajaram, Gandhigram rural Institute -Deemed to be University</b></p> <p><b>2)Rajat Srivastava, University of Petroleum and Energy Studies</b></p> <p><b>3)Dr.M.Parthasarathy, Vel Tech Rangarajan Dr.Sagunthala R&amp;D Institute of Science and Technology</b></p> <p><b>4)N.Murugu Nachippan, Vel Tech Rangarajan Dr.Sagunthala R&amp;D Institute of Science and Technology</b></p> <p><b>5)Dr.S.YASOTHA, M.Kumarasamy College of Engineering (Autonomous)</b></p> <p><b>6)S.SENTHILMURUGAN, SRMIST</b></p> <p><b>7)VISWANATHAN GANESH, Chalmers University of Technology</b></p> <p><b>8)Mr. Ashish Raju Pawar</b></p> <p><b>9)Mr. Mahesh Prakash Kumbhare</b></p> <p><b>10)Dr.Sourabh Kumar Jain, Research Foundation of India</b></p> <p><b>11)Rohan J, Erode Sengunthar Engineering College</b></p> <p><b>12)Dr. Makarand Upadhyaya, BITS, Pilani</b></p>
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(57) Abstract :

Biodiesel is charming progressively useful as a biodegradable, nontoxic diesel fuel. Examples of biodiesel include soy diesel (methyl soyate), rapeseed methyl ester, and various vegetable and animal fat methyl esters. Biodiesel fatty acid methyl esters (FAME) have been newly accepted as a viable alternative to traditional petroleum-derived solvents that are of environmental concern and are under legislative pressure to be replaced by biodegradable substitutes that result in reduced environmental impact. Heterogeneous solid base catalyst plays major role in the biodiesel production via transesterification reaction. In this invention, a novel green eco catalyst is proposed for the transesterification reaction. Waste chicken eggshell were synthesised as catalyst via calcination process. Raw eggshell contains calcium carbonate and it is converted into calcium oxide (an effective heterogenous base catalyst) and the same is characterised through XRD, FTIR to authorize the presence of CaO.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022347 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND DEVICE FACILITATING DETERMINATION OF SOIL PROPERTIES

(51) International classification	:G01N0033240000, H04W0004029000, H04L0029060000, A01C0021000000, H04N0005225000	(71) <b>Name of Applicant :</b> <b>1)Wolkus Technology Solutions Private Limited</b> Address of Applicant :#680, 1st Floor, 13th Cross, 27th Main, HSR Layout, 1st Sector, Bengaluru, Karnataka - 560102, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KULKARNI, Vidyadhar</b>
(33) Name of priority country	:NA	<b>2)BHARDWAJ, Abhay S</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates generally to a device that facilitates determination of the quality of soil at different root zones of a plant. One or more first sensors and one or more second sensors may measure the parameters of the soil and soil temperature respectively. The device can be easily customized and assembled to a data logger unit to collect, process, and transfer the soil data.

No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : EXPERIMENTAL BEHAVIOUR ON CONCRETE PROPERTIES USING ZEOLITE AS A PARTIAL REPLACEMENT OF CEMENT WITH NATURAL ADMIXTURE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:C04B0028020000, C04B0028040000, A61K0036886000, A61K0036896000, C04B0040000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Belin Jude A</b> Address of Applicant :Assistant Professor &amp; HoD Department of Civil Engineering Saranathan College of Engineering Thiruchirappalli 620 012 Tamil Nadu India</p> <p><b>2)Dr. Kanchidurai S</b></p> <p><b>3)Mr. Kesava Raja C</b></p> <p><b>4)Mr. Anandraj A</b></p> <p><b>5)Mr. Kannan S</b></p> <p><b>6)Ms. Nivedhitha C</b></p> <p><b>7)Mr. G.Venkatesan</b></p> <p><b>8)Mrs. Vaishali P</b></p> <p><b>9)Mr. Swaminathan P</b></p> <p><b>10)Mr. Arun Sahayaraj S</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Belin Jude A</b></p> <p><b>2)Dr. Kanchidurai S</b></p> <p><b>3)Mr. Kesava Raja C</b></p> <p><b>4)Mr. Anandraj A</b></p> <p><b>5)Mr. Kannan S</b></p> <p><b>6)Ms. Nivedhitha C</b></p> <p><b>7)Mr. G.Venkatesan</b></p> <p><b>8)Mrs. Vaishali P</b></p> <p><b>9)Mr. Swaminathan P</b></p> <p><b>10)Mr. Arun Sahayaraj S</b></p>
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## (57) Abstract :

The implementation of alternative cementitious material is very imperative because at the present time, Global warming is the current grave matter and carbon-di -oxide is one of the harmful gases which causes global warming. Concrete containing cement releases carbon- di -oxide during manufacturing process. Hence, it is crucial to find out the replacement material for cement which should be promising, environment friendly material to reduce the CO2 and improving the concrete characteristics, with considering the other benefits like low cost and easy availability. Zeolite is a material which possess pozzolanic properties and found to be satisfying the above criteria for the replacement of cement. To increase the workability of concrete in general, mineral and chemical admixtures are always preferred to reduce the water content in order to obtain high strength. These admixture is relatively expensive. So, shifting ourselves to use eco friendly (natural) admixtures in concrete which are abundantly available are preferred. For this reason, Aloe vera juice which is obtained from aloe vera plant is preferred as a natural admixture. This work highlights about the behaviour of zeolite and aloe vera in concrete in 20%,25%,30% of zeolite for the replacement of cement along with 2% of aloe vera juice. An experiment is made in both river sand with zeolite and M-sand with zeolite and test results are compared. Overall incorporation of zeolite in 25% in river sand and 20% in Manufacturing sand gives enhanced strength

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022450 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DG PLACEMENT FOR MAXIMUM LOSS REDUCTION IN RADIAL DISTRIBUTION SYSTEM USING ABC ALGORITHM

(51) International classification	:G06N0003000000, H04L0012400000, H04N0017000000, H02J0003380000, H04W0016180000	(71)Name of Applicant : <b>1)B. Srikanth Goud, Assistant Professor / Department of EEE, Anurag College of Engineering</b> Address of Applicant :Anurag College of Engineering, Ghatkesar, Medchal, Hyderabad, Telangana- 501301 Telangana India <b>2)G. Jhansi Rani, Assistant Professor / Department of EEE, University College of Engineering, Osmania University</b> <b>3)K. Ramakrishna, Assistant professor/ Department of EEE, Holy Mary Institute of Technology &amp; Science</b> <b>4)Seelam VSV Prabhu Deva Kumar, Assistant Researcher /R&amp;D Center, JoongAng Control Co., Ltd</b> <b>5)A.N Venkateswarlu, Associate Professor/Department of EEE, Vignan's Lara Institute of Technology and Science</b> <b>6)Dr. K.V.G Raghavendra , Sustainable Energies Research and Project Consultant/Nextgen Management consultancy</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)B. Srikanth Goud, Assistant Professor / Department of EEE, Anurag College of Engineering</b> <b>2)G. Jhansi Rani, Assistant Professor / Department of EEE, University College of Engineering, Osmania University</b> <b>3)K. Ramakrishna, Assistant professor/ Department of EEE, Holy Mary Institute of Technology &amp; Science</b> <b>4)Seelam VSV Prabhu Deva Kumar, Assistant Researcher /R&amp;D Center, JoongAng Control Co., Ltd</b> <b>5)A.N Venkateswarlu, Associate Professor/Department of EEE, Vignan's Lara Institute of Technology and Science</b> <b>6)Dr. K.V.G Raghavendra , Sustainable Energies Research and Project Consultant/Nextgen Management consultancy</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Distributed Generation (DG) is a promising solution to many power system problems such as voltage regulation, power loss, etc. This presents a new methodology using a new population based meta heuristic approach namely Artificial Bee Colony algorithm (ABC) for the placement of Distributed Generators (DG) in the radial distribution systems to reduce the real power losses and to improve the voltage profile. A two-stage methodology is used for the optimal DG placement. In the first stage, single DG placement method is used to find the optimal DG locations and in the second stage, ABC algorithm is used to find the sizes of the DGs corresponding to maximum loss reduction. The proposed method is tested on standard IEEE 33-bus test system and the results are presented and compared with different approaches available in the literature. The proposed method has outperformed the other methods in terms of the quality of solution and computational efficiency.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022479 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : EXTRACTION AND APPLICATION OF NATURAL DYEING TECHNIQUE ON NATURAL FIBER YARNS AND CREATION OF ORGANIC HANDLOOM SAREE

(51) International classification	:D06P0001340000, A61K0036889000, D06P0003820000, D06P0001673000, D06P0003600000	(71) <b>Name of Applicant :</b> <b>1)Fiona Paulson.T</b> Address of Applicant :PSG College of Arts and Sciences, Civil Aerodrome Post, Coimbatore, Tamil Nadu 641014 Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. R.Divya</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)Fiona Paulson.T</b>
(86) International Application No	:NA	<b>2)Dr. R.Divya</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Palmyra palm tree ( Borasseus Flabellifer) and Alkanna tree which are easily available in the lands of India and other lands like china, Egypt etc, have specific good properties like medical properties in them. The project mainly focused on natural dyes and dyeing of natural fibre yarns, combined with the help of the traditional method of handloom weaving for its weaving production. To make the fabric produce more attractive, the traditional wear handloom saree • silhouette, was selected for the making. Palmyra palm tree belong to the Palme category, they are short palm tree variety which are commonly found in our states of Tamil Nadu, India. Alkanna Tinctoria was used as a food colouring agent in Kashmir in olden days later it got its name called the dyers alkanna • cause of its bright colour obtained from it. The root of this Alkanna plant is commonly used for the process of dyeing.

No. of Pages : 12 No. of Claims : 2

(54) Title of the invention : WASTE-TO-ENERGY FROM MUNICIPAL SOLID WASTES

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number: Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:C10L0005440000, B09B0003000000, C10L0005400000, B30B0011020000, B30B0009060000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)<b>Name of Applicant :</b>  <b>1)S.RAGUNATH</b>  Address of Applicant :ASSISTANT PROFESSOR,  DEPARTMENT OF CIVIL ENGINEERING, JANSONS  INSTITUTE OF TECHNOLOGY, KARUMATHAMPATTI,  COIMBATORE - 641659 TAMIL NADU, INDIA. Tamil Nadu  <b>2)Mr.MS.SRINIDHI</b>  <b>3)Dr. ASHOK ABHISHEK</b>  <b>4)Dr .G.SWAMY</b>  <b>5)Mrs. AKANKSHA SEHGAL</b>  <b>6)Mr.KIRAN SHASHIKANT CHINCHAWALKAR</b>  <b>7)Mr. T. VIGNESH</b>  <b>8)Dr. ASHOK KUMAR KOSHARIYA</b>  <b>9)Dr. PERVAZ AHMAD GANIE</b></p> <p>(72)<b>Name of Inventor :</b>  <b>1)S.RAGUNATH</b>  <b>2)Mr.MS.SRINIDHI</b>  <b>3)Dr. ASHOK ABHISHEK</b>  <b>4)Dr .G.SWAMY</b>  <b>5)Mrs. AKANKSHA SEHGAL</b>  <b>6)Mr.KIRAN SHASHIKANT CHINCHAWALKAR</b>  <b>7)Mr. T. VIGNESH</b>  <b>8)Dr. ASHOK KUMAR KOSHARIYA</b>  <b>9)Dr. PERVAZ AHMAD GANIE</b></p>
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(57) Abstract :

ABSTRACT WASTE-TO-ENERGY FROM MUNICIPAL SOLID WASTES Biomass briquettes are an inexhaustible wellspring of energy and try not to add fossil carbon to the air. Biomass briquettes likewise offer more calorific benefit/kg and save around 40-50 percent of evaporator fuel costs. Simultaneously, the stock of petroleum product and kindling isn't staying up with the expanding energy interest in the country; the utilization of natural buildups through briquetting is one of the promising choices to address nearby issues in different areas. Hence this invention will provide solution for the above mentioned problems at the same by producing briquettes from the segregated bio degradable waste blended with paper pulp. The waste paper collected from the municipal solid waste was fed to medium size tank where the paper collected was soaked with water for one day and paper pulp is formed. This paper pulp along with segregated biodegradable waste (crushed) was used to produce briquettes. The newly produced briquettes are analyzed for different composition of biodegradable waste powder and paper pulp and the optimum composition was preferred for actual production. The physical properties and the chemical properties of the briquette of different composition were studied for understanding thermal behavior of the new briquette.

No. of Pages : 20 No. of Claims : 7



(54) Title of the invention : DEVELOPMENT OF VARIABLE WHEEL BASE CHASSIS IN FOUR SEATER L CATEGORY VEHICLE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:B62D0021140000, B62D0031000000, B62D0047000000, B62K0005010000, B60L0050500000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. T. Balamurugan</b> Address of Applicant :Professor, Department of Mechanical Engineering, Arasu Engineering College, Kumbakonam Tamil Nadu India</p> <p><b>2)Mr. R. G. Padmanabhan</b></p> <p><b>3)Mr. A. Joseph Arockiam</b></p> <p><b>4)Mr. R. Karthikeyan</b></p> <p><b>5)Mr. G. B. Sathishkumar</b></p> <p><b>6)Dr. K. Kumar</b></p> <p><b>7)Mrs. G. Kavitha</b></p> <p><b>8)Mr. R. Vijay</b></p> <p><b>9)Mr. K. Prakash</b></p> <p><b>10)Mr. I. Duraimurugan</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. T. Balamurugan</b></p> <p><b>2)Mr. R. G. Padmanabhan</b></p> <p><b>3)Mr. A. Joseph Arockiam</b></p> <p><b>4)Mr. R. Karthikeyan</b></p> <p><b>5)Mr. G. B. Sathishkumar</b></p> <p><b>6)Dr. K. Kumar</b></p> <p><b>7)Mrs. G. Kavitha</b></p> <p><b>8)Mr. R. Vijay</b></p> <p><b>9)Mr. K. Prakash</b></p> <p><b>10)Mr. I. Duraimurugan</b></p>
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(57) Abstract :

ABSTRACT Development of Variable Wheel Base Chassis in Four Seater L Category Vehicle Electric vehicles have played a crucial role in the automotive sector in overcoming emissions and saving fossil fuels, such as petrol and diesel, for the future generation. In-car specifications, the vehicle category L (L7e Heavy Quadric) with an unladen weight shall not exceed 400 kg. The battery weight shall not include more than 400 kg (passengers) in electric vehicles with a built load. The maximum engine capacity shall not exceed 15 kW. It is very challenging to look for drivers in intelligent cities or metropolitan centres. To address this issue, Variable Wheelbase Technology (VWT), the electric vehicle rear motor power train, is introduced in semi-level chassis utilizing the telescopic system. The VWT would enable the vehicle to limit the vehicle's wheelbase length to 30%. To ensure this process, the chassis are safely and stably built to provide a flexible approach to electric vehicle architecture as it expands and contracts. This reduces road traffic when travelling on front seats with fewer than two people, minimizing the parking capacity in metropolitan cities, and offers good convenience to improve the consumer experience.

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : AI BASED VOICE MEDICAL PRESCRIPTION

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06Q0050220000, G16H0020100000, G06F0003010000, G06Q0010100000, A61K0036481000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)<b>Name of Applicant :</b>  <b>1)Dhivya R</b>  Address of Applicant :Assistant Professor Department of  Computer Science and Engineering Paavai Engineering College  Tamil Nadu India  <b>2)B Venkatesan</b>  <b>3)Dr.P.Thiyagarajan</b>  <b>4)D. Yogapriya</b>  <b>5)Dr.P.Nandhini</b>  <b>6)Santhiya P</b>  <b>7)S.Sakthivel</b>  <b>8)E. Elanchezhian</b>  <b>9)R Loganathan</b>  <b>10)Kakirala Durga Bhavani</b>  <b>11)Kaviyaraj R</b>  <b>12)S. Suresh Kumar</b></p> <p>(72)<b>Name of Inventor :</b>  <b>1)Dhivya R</b>  <b>2)B Venkatesan</b>  <b>3)Dr.P.Thiyagarajan</b>  <b>4)D. Yogapriya</b>  <b>5)Dr.P.Nandhini</b>  <b>6)Santhiya P</b>  <b>7)S.Sakthivel</b>  <b>8)E. Elanchezhian</b>  <b>9)R Loganathan</b>  <b>10)Kakirala Durga Bhavani</b>  <b>11)Kaviyaraj R</b>  <b>12)S. Suresh Kumar</b></p>
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(57) Abstract :

In India thousands of people dies as a result of wrong medication and normal ailments leads to severe ailments. The scenario is voice recognition. It plays vital role for an effective interaction between human and computer. The scenario of recognition of voice can be used as a trigger to number of virtual application. This patent is proposed framework that signifies use of voice recognition techniques for medicine prescription. the main aim is to avoid many errors involved in the administration of the wrong drug or dosage by care givers to patients due to indecipherable handwritings, drug interactions, confusing drug names etc. The adoption of voice-based mobile applications could eliminate some of these errors because they allow prescription information to be captured and heard through voice response rather than in the physician<sup>TM</sup>s handwriting. The application can be accessed through a mobile application by the physicians. It automates the process of prescribing medications, without compromising the convenience of the traditional notepad. It provides facility to sign the prescription **DIGITAL SIGNATURE** and also send to the patient directly on his /her phone through E-mail. System performance is analysed by creating e-prescription for the patients . An accuracy of 90% has been achieved for voice recognition.

No. of Pages : 7 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022899 A

(19) INDIA

(22) Date of filing of Application :22/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR SYNTHESIZING Y-DOPED ZNO NANOPARTICLES AND FABRICATING GAS SENSOR FOR DETECTING AMMONIA

(51) International classification	:G01N0027120000, G01N0033000000, B82Y0030000000, B82Y0015000000, B82Y0040000000	(71) <b>Name of Applicant :</b> <b>1)Dr. Vinayak Adimule</b> Address of Applicant :No. 50, C/O S Shivakumar, 5th Cross, Bhagyanagar, Belagavi-590008, Karnataka, India Karnataka India <b>2)Basappa C Yallur</b> <b>3)Santosh S Nandi</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Vinayak Adimule</b>
(33) Name of priority country	:NA	<b>2)Basappa C Yallur</b>
(86) International Application No	:NA	<b>3)Santosh S Nandi</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a process for synthesizing Y-Doped ZnO Nanoparticles and fabricating gas sensor for detecting ammonia. A facile co-precipitation technique is used in the synthesis of pure ZnO and Y-doped. ZnO nanostructures (YZO) and fabricated by using electron beam deposition over a glass substrate. In comparison with pure ZnO NPs, Y-doped ZnO exhibited better ammonia gas sensing properties. The selectivity and sensitivity of 150 ppm of ammonia gas at 250 °C for 15 wt.% of YZO were comparatively higher than pure ZnO nanostructures. The response and recovery time of 15 wt.% of YZO was 58 s and 87 s, respectively. The gas sensor YZO nanostructures exhibited better selectivity toward ammonia gas compared with the other volatile gases such as methane, hydrogen sulfide, ethylene, chloroform. The selectivity and sensor features of Y-doped ZnO were experimentally analyzed.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022937 A

(19) INDIA

(22) Date of filing of Application :22/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AGRI CARE DEVICE

(51) International classification	:A01G0025160000, G06Q0050020000, A01G0025000000, G01N0033240000, H01L0021480000	(71)Name of Applicant : <b>1)Dr. Kalpana Murugan</b> Address of Applicant :Professor and Head Department of Electronics and Communication Engineering Kalasalingam Academy of Research And Education, Anand Nagar, Krishnankoil-626126, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	<b>2): Mrs. R. Jenitha</b>
(32) Priority Date	:NA	<b>3)Dr. V. Muneeswaran</b>
(33) Name of priority country	:NA	<b>4)Mr. Poolavenkata Varun</b>
(86) International Application No	:NA	<b>5)Mr. Peddireddy Harivardhan Reddy</b>
Filing Date	:NA	<b>6)Mr. Patan Salman Khan</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Dr. Kalpana Murugan</b>
Filing Date	:NA	<b>2): Mrs. R. Jenitha</b>
(62) Divisional to Application Number	:NA	<b>3)Dr. V. Muneeswaran</b>
Filing Date	:NA	<b>4)Mr. Poolavenkata Varun</b>
		<b>5)Mr. Peddireddy Harivardhan Reddy</b>
		<b>6)Mr. Patan Salman Khan</b>

(57) Abstract :

Agriculture is the considered as the back bone of our Country™s economy in order to survive. But due to the lack in technological support to the farmers it is depleting in nature and the requirements are not met till now. In order to overcome the problem faced by the farmers, the proposed system was developed to minimize the manual intervention and water usage for irrigation with the latest technology. The proposed system monitors the environmental conditions such as temperature, humidity, moisture level of the soil and rainfall status of the farm. On monitoring the status of the farm from remote location, the farmer can control the motor for irrigation purpose. This process has been implemented with Raspberry Pi board and the data is being monitored by using Long Range WAN.

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SMART DOOR SYSTEM AND METHOD THEREOF

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G07C0009000000, H04N0007180000, G10L0015260000, G10L0015220000, E06B0007280000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Vishal Shukla</b> Address of Applicant :Associate Professor, Presidency University Bangalore Karnataka India</p> <p><b>2)Dr. Anupama Rajesh</b></p> <p><b>3)Dr. Uchit Kapoor</b></p> <p><b>4)Mr. Murali Krishna Kotha</b></p> <p><b>5)Dr. Mohan P. Thakre</b></p> <p><b>6)Dr. Hari Kumar Pallathadka</b></p> <p><b>7)Dr. Hemraj Verma</b></p> <p><b>8)Dr. Garima Verma</b></p> <p><b>9)Mr. Shrikanth Ganapati Naik</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Vishal Shukla</b></p> <p><b>2)Dr. Anupama Rajesh</b></p> <p><b>3)Dr. Uchit Kapoor</b></p> <p><b>4)Mr. Murali Krishna Kotha</b></p> <p><b>5)Dr. Mohan P. Thakre</b></p> <p><b>6)Dr. Hari Kumar Pallathadka</b></p> <p><b>7)Dr. Hemraj Verma</b></p> <p><b>8)Dr. Garima Verma</b></p> <p><b>9)Mr. Shrikanth Ganapati Naik</b></p>
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(57) Abstract :

The present invention generally relates to a system and method for artificial intelligence based smart door with voice recognition for home safety. The system comprises a door body positioned at an entrance of a house; a camera associated with the door body for capturing and thereby recording real time image/video of visitors; and a speech recognition device configured with natural language processing engaged with the door body for recognizing audio of the visitor for opening the door.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022958 A

(19) INDIA

(22) Date of filing of Application :23/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AUTOMATIC INJECTION SYSTEM FOR HEALTHCARE APPLICATIONS

(51) International classification	:A61B0005000000, A61B0005024000, A61B0005020500, A61B0005021000, A61B0005040200	(71) <b>Name of Applicant :</b> <b>1)Dr. V. Muneeswaran</b> Address of Applicant :Department of Electronics and Communication Engineering Kalasalingam Academy of Research And Education, Anand Nagar, Krishnankoil-626126, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. Kalpana Murugan</b>
(32) Priority Date	:NA	<b>3)Ms. Pavithra E</b>
(33) Name of priority country	:NA	<b>4)Ms. Ediga Bhuvanewari</b>
(86) International Application No	:NA	<b>5)Ms. Kurugunta Joshna</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)Dr. V. Muneeswaran</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Dr. Kalpana Murugan</b>
Filing Date	:NA	<b>3)Ms. Pavithra E</b>
(62) Divisional to Application Number	:NA	<b>4)Ms. Ediga Bhuvanewari</b>
Filing Date	:NA	<b>5)Ms. Kurugunta Joshna</b>

(57) Abstract :

In relative to the increased number of medical devices that are being useful in the bio-medical and electronic field, the device that records and monitors the patient details in daily life plays a vital role in viewing the health status of the patient .We come across many devices like blood pressure monitor, heart rate monitor, electrocardiogram and etc. that gives as the accurate results of the patient<sup>TM</sup>s body condition. These type of inventions in main are done to reduce the manual error and project the correct results in the patient<sup>TM</sup>s record. Here we have designed a project which would monitor certain parameters and inject the dosage which has to be given at a particular room temperature. This project mainly concentrates on the patient<sup>TM</sup>s requirement based on intake of dosage that they are undergoing during their medication. So our project is a clear cut view of how injections can be implemented into patients under intensive care unit (ICU) .This is a monitor device that records the temperature and the thickness of the skin and the quality of the dosage along with the quantity which has to be injected to them. This is done with the help of an injection rod connected with a dc motor and a controller which is programmed using embedded C .To ensure the status of the particular patient we have also implemented the concept of the server control which is a database management system . Considering all the parameters this project is also useful to patients in the general ward and the use of this project is also to monitor the patient needs and the amount of dosage which has to be implemented from the injection rod. Here we have developed an electronics-based system to feed the dosage to the people without getting any assistance from others that is automatic which is why this is titled as ~AUTOMATCI INJECTION SYSTEM<sup>TM</sup>. Our project is to help the patients in ICU to avoid these types of critical conditions and this will also be useful in health monitoring .These can also be used at places wherever injections play a vital role . This project also holds the complete guidelines and set of rules that has to be learnt whenever a monitoring device like automatic injection is in use.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022985 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MK MED ASSISTIVE BOT

(51) International classification :A61J0007040000,  
A61B0005000000,  
G08B0021040000,  
G08B0021240000,  
A61B0005145000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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Krishnankoil-626126, Tamil Nadu, India Tamil Nadu India  
**2)Dr. V. Muneeswaran**

(72)**Name of Inventor :**  
**1)Dr. Kalpana Murugan**  
**2)Dr. V. Muneeswaran**

(57) Abstract :

Untimed medicine administration can always show adverse effects on the health of the patients. The proposed system is designed to help these patients to take the required medicine in the right proportion at the right time. This is extremely problematic for the elderly patient who have problems in keeping track of their medicine. Poor eyesight as one of the contributors for medicine consumption errors such as mis dosage since the elderly finds it troublesome to read the instruction on the medicine case and identifying the right dosage of the medicine along with that Memory loss is common in old age due to that decrease in speed of information being retrieved. So, to overcome this we made this nursing robot which can keep track of the dosage and duration between each consumption. Our medicine robot is a microcontroller based programmable robot system that reminds the users which specific pill to take at particular times of day and serves at those times each day. Once the medicines are taken by the patient, the status of the medications that are taken by the patient is automatically sent to the patient<sup>TM</sup>s relative through SMS.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023024 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN AUTOMATED METHOD FOR INNOVATING BUSINESS MODELS THROUGH E-COMMERCE FOR SMALL AND MEDIUM SCALE ENTITIES

(51) International classification	:G06Q0010060000, G06Q0030060000, G06Q0030020000, G06Q0010100000, G09B0019000000	(71)Name of Applicant : <b>1)V NAGARAJ</b> Address of Applicant :S/o. G VARATHARAJ, ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, KNOWLEDGE INSTITUTE OF TECHNOLOGY, HOUSE NO.: 1/351,BACKSIDE OF CANARA BANK, SANDAIPETTAI, VAIKUNTHAM(PO), SANGAGIRI(TK), SALEM(DT) 637103, TAMIL NADU, INDIA Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. M UMAMAHESWARI</b>
(32) Priority Date	:NA	<b>3)Dr. MANJULA PATTNAIK</b>
(33) Name of priority country	:NA	<b>4)Dr. R INDUMATHY</b>
(86) International Application No	:NA	<b>5)Prof. M DHILIPHAN KUMAR</b>
Filing Date	:NA	<b>6)Dr. S VENGATESH KUMAR</b>
(87) International Publication No	: NA	<b>7)Dr. B R RAMJI</b>
(61) Patent of Addition to Application Number	:NA	<b>8)Dr. N AMSAVENI</b>
Filing Date	:NA	<b>9)Dr. MAHESH BHALAKRISHNAN</b>
(62) Divisional to Application Number	:NA	<b>10)Dr. MOHD. NAVED</b>
Filing Date	:NA	(72)Name of Inventor :
		<b>1)V NAGARAJ</b>
		<b>2)Dr. M UMAMAHESWARI</b>
		<b>3)Dr. MANJULA PATTNAIK</b>
		<b>4)Dr. R INDUMATHY</b>
		<b>5)Prof. M DHILIPHAN KUMAR</b>
		<b>6)Dr. S VENGATESH KUMAR</b>
		<b>7)Dr. B R RAMJI</b>
		<b>8)Dr. N AMSAVENI</b>
		<b>9)Dr. MAHESH BHALAKRISHNAN</b>
		<b>10)Dr. MOHD. NAVED</b>

(57) Abstract :

The use of e-commerce technology is low as a media promotion and market place result for small and medium enterprises has not been able to reach a global scale and profit only is obtained by a conventional sell. To facilitate such industries in order to promote and market products online, so it needs to be made a prototype e-commerce portal as a place for the perpetrators of small industries. Business process analysis in this invention is done by functional analysis method. Analysis of functional parameters and then automatically designs a business development model based on business model innovation as apt for each SMEs.

No. of Pages : 16 No. of Claims : 3



(54) Title of the invention : A SYSTEM AND METHOD FOR ANALYSING DYNAMIC OUT-OF-HOME ADVERTISING BASED ON REAL-TIME VIEWERS BIOMETRIC INFORMATION

<p>(51) International classification :G06K0009320000, G01V0015000000, H01L0051500000, G06Q0050000000, G06F0003147000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No :NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DEEPAK eMAN, TATA CONSULTANCY SERVICES. Address of Applicant :SENIOR DATA SCIENTIST, DEPARTMENT OF ANALYTICS AND INSIGHT, TATA CONSULTANCY SERVICES, 707/22 CAMBRIDGE STREET, EPPING 2121, SYDNEY, NEW SOUTH WALES, AUSTRALIA. Australia 2)Prof. PALADUGA SATISH RAMA CHOWDARY, RAGHU INSTITUTE OF TECHNOLOGY. 3)Prof. V V S S S CHAKRAVARTHY, RAGHU INSTITUTE OF TECHNOLOGY. 4)Dr. B S S V.RAMESH BABU, RAGHU INSTITUTE OF TECHNOLOGY. 5)Dr. M S S S SRINIVAS, RAGHU INSTITUTE OF TECHNOLOGY. 6)Dr. P RENGARAJAN, POOMPUHAR COLLEGE. 7)AKASH KUMAR GUPTA, RAGHU INSTITUTE OF TECHNOLOGY. 8)M N V HARSHA VARDHAN, RAGHU INSTITUTE OF TECHNOLOGY. 9)ANKIT JAIN, INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY. 10)MAKHAN KUMBHKAR, CHRISTIAN EMINENT COLLEGE. 11)Dr. BRIGHT KESWANI, SURESH GYAN VIHAR UNIVERSITY. 12)BRIJESH KESWANI, POORNIMA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY. 13)Dr. CHAITANYA SINGH, SHIVAJIRAO KADAM INSTITUTE OF TECHNOLOGY AND MANAGEMENT. 14)Dr. DEEPIKA CHAUHAN, SHIVAJIRAO KADAM INSTITUTE OF TECHNOLOGY AND MANAGEMENT. (72)Name of Inventor : 1)DEEPAK eMAN, TATA CONSULTANCY SERVICES. 2)Prof. PALADUGA SATISH RAMA CHOWDARY, RAGHU INSTITUTE OF TECHNOLOGY. 3)Prof. V V S S S CHAKRAVARTHY, RAGHU INSTITUTE OF TECHNOLOGY. 4)Dr. B S S V.RAMESH BABU, RAGHU INSTITUTE OF TECHNOLOGY. 5)Dr. M S S S SRINIVAS, RAGHU INSTITUTE OF TECHNOLOGY. 6)Dr. P RENGARAJAN, POOMPUHAR COLLEGE. 7)AKASH KUMAR GUPTA, RAGHU INSTITUTE OF TECHNOLOGY. 8)M N V HARSHA VARDHAN, RAGHU INSTITUTE OF TECHNOLOGY. 9)ANKIT JAIN, INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY. 10)MAKHAN KUMBHKAR, CHRISTIAN EMINENT COLLEGE. 11)Dr. BRIGHT KESWANI, SURESH GYAN VIHAR UNIVERSITY. 12)BRIJESH KESWANI, POORNIMA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY. 13)Dr. CHAITANYA SINGH, SHIVAJIRAO KADAM INSTITUTE OF TECHNOLOGY AND MANAGEMENT. 14)Dr. DEEPIKA CHAUHAN, SHIVAJIRAO KADAM INSTITUTE OF TECHNOLOGY AND MANAGEMENT.</p>
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## (57) Abstract :

Smart Electronic Device and method for Object Preserving and Tracking the present disclosure proposes a smart electronic device and a system for object preserving and tracking. The system comprises an authenticating module, a recording module, an object preserving module, a storage module, an object search module, a tracking module, and a display module. The smart device for object preserving and tracking utilizes real-time kinematic positioning and GPS to assist users in placing several objects in a specific place and retrieve them whenever necessary. The system provides a secured authentication within the smart electronic device to restrict unauthorized users from locating the hidden objects. The system enables the user to store property documents or other valuable assets or objects and recover them whenever necessary and also allows to feed the details of the preserved object and thereby differentiate multiple objects with the same names based on the stored time.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023052 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PEROVSKITE MATERIAL AND METHOD FOR FABRICATING THEREOF

(51) International classification	:H01L0051000000, H01L0051420000, C01G0021000000, C09K0011660000, C01G0021160000	(71) <b>Name of Applicant :</b> <b>1)Dr. T. Sasipraba</b> Address of Applicant :Vice-Chancellor, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. G. Murugadoss</b>
(32) Priority Date	:NA	<b>3)Dr. P. Kuppusamy</b>
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)Dr. T. Sasipraba</b>
Filing Date	:NA	<b>2)Dr. G. Murugadoss</b>
(87) International Publication No	: NA	<b>3)Dr. P. Kuppusamy</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Perovskite material and method for fabricating thereof • Accordingly, embodiments herein disclose a method for fabricating a perovskite material. The method includes heating a perovskite solution. Further, the method includes mixing the heated perovskite solution with a hot chlorobenzene in an ambient atmosphere. The heated perovskite solution with the hot chlorobenzene are directly mixed at 1:10 volume ratio under stirring at 100°C. Further, the method includes obtaining a perovskite material. Room temperature stable perovskite powders are prepared rapidly. It is studied 1 year room temperature stability for series of perovskite. A complete formation of perovskites such as MAPbI<sub>3</sub>, a MAPbBr<sub>3</sub>, a FAPbI<sub>3</sub>, a FAPbBr<sub>3</sub>, a CsPbI<sub>3</sub> and a CsPbBr<sub>3</sub> (but it is not limited) can be used for long time for diverse applications. But the precursors of the perovskites (lead iodide (PbI<sub>2</sub>), methylammonium iodide (MAI), methylammonium bromide (MABr), formamidinium iodide (FAI) and formamidinium bromide (FABr)) are highly moisture sensitive due to its hygroscopic nature. FIG. 1

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023144 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR AUTOMATIC ATTENDANCE USING SMART CHAIR APPLICATION

(51) International classification	:G07C0001100000, G08B0021220000, A43B0003000000, A61B0005010000, G08B0015000000	(71) <b>Name of Applicant :</b> <b>1)C P THAMIL SELVI</b> Address of Applicant :D/o. P PALANICHAMY, ASSOCIATE PROFESSOR, ASSISTANT HEAD OF THE DEPARTMENT, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, VSB COLLEGE OF ENGINEERING TECHNICAL CAMPUS, COIMBATORE -642109, TAMIL NADU, INDIA. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)C P THAMIL SELVI</b>
(33) Name of priority country	:NA	<b>2)Dr. S RAMASAMY</b>
(86) International Application No	:NA	<b>3)Dr. T M NITHYA</b>
Filing Date	:NA	<b>4)Dr. D PRASANNA</b>
(87) International Publication No	: NA	<b>5)V PRIYA</b>
(61) Patent of Addition to Application	:NA	<b>6)Dr. M AMUTHA</b>
Number	:NA	<b>7)S PRIYA</b>
Filing Date	:NA	<b>8)M S VINU</b>
(62) Divisional to Application Number	:NA	<b>9)S GOWDHAM KUMAR</b>
Filing Date	:NA	<b>10)T DHARMAPRABHAKARAN</b>
		<b>11)M R RAVEENDRAN</b>
		<b>12)G THILAK</b>

(57) Abstract :

Current Technologies of IoT are transforming our houses are smart. In present invention, the smart chair for monitoring and automation of attendance contains the idea of monitoring the appearance of the person and can monitor the presence of a person. Additionally, this idea will help to find the body temperature, heart beat and weight of a human being. According to the invention, the system automatically tracs and monitors the person and takes attendance using ITO module. In automatic attendance system contains GPS, Micro controller, GSM and Sensors. When the user sit on the chair, the touch sensor and vibrating sensor activates and sends alert message to the mobile and also alert the environment with alarm sound. Also if the user sits in the chair weighing sensor, sense the weight and if the weight is less then it sends the alert message to the concern person automatically the person is absented. The chair is already embedded with GPS, Micro controller which is used to track the person.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023174 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND A METHOD OF CONNECTING MULTIPLE MODULES IN A SERIES CONFIGURATION

(51) International classification	:H02H0009000000, H02J0007000000, F28F0009260000, B60L0058190000, G11C0016300000	(71) <b>Name of Applicant :</b> <b>1)CYGNI ENERGY PRIVATE LIMITED</b> Address of Applicant :Plot No 283, Road No. 78, Lansum House, Jubilee Hills, Hyderabad Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VENKAT RAJARAMAN</b>
(33) Name of priority country	:NA	<b>2)SASIDHAR RAYASAM</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A SYSTEM AND A METHOD OF CONNECTING MULTIPLE MODULES IN A SERIES CONFIGURATION The present embodiment provides a system (100) and a method of assembling (500) and disassembling (600) a plurality of modules (102, 104). The plurality of modules (102, 104) is arranged in a series configuration. The plurality of modules (102, 104) is connected to a single Battery Management System (BMS) (302) through a power connector (110) and a sensor cable connector (112). The Battery Management System (BMS) (302) monitors the voltage balance between the plurality of modules (102, 104). Ref Fig. 1

No. of Pages : 28 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023176 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SEMI-AUTOMATED SYSTEM AND METHOD WITH A RESERVE MODE FOR ELECTRICAL VEHICLES

(51) International classification	:G01R0031392000, H02J0007000000, H01M0010480000, H01M0010420000, B60L0050500000	(71) <b>Name of Applicant :</b> <b>1)CYGNI ENERGY PRIVATE LIMITED</b> Address of Applicant :Plot No 283, Road No. 78, Lansum House, Jubilee Hills, Hyderabad Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VENKAT RAJARAMAN</b>
(33) Name of priority country	:NA	<b>2)SASIDHAR RAYASAM</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A SEMI-AUTOMATED SYSTEM AND METHOD WITH A RESERVE MODE FOR ELECTRICAL VEHICLES The present embodiment provides a semi-automated system (100) and method (400) for the electrical vehicles. The semi-automated system (100) includes a battery storage unit (102) and a reserve mode (104). The battery storage unit (102) stores a battery capacity as a reserve capacity on the basis of a state of health (SoH) of the battery. The reserve mode (104) activates a battery management system (BMS) (108) that utilizes the reserve capacity stored in the battery storage unit (102) for providing additional power to the electrical vehicles. Reference Figure 1

No. of Pages : 23 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023186 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INTELLIGENT PATIENT HEALTHCARE MONITORING USING AI

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application</p> <p>Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06N0003080000, G06N0020000000, G05B0023020000, G06K0009620000, G06T0007000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. K. Arumugam</b></p> <p style="padding-left: 20px;">Address of Applicant :Assistant Professor, Department of Computer science, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu Tamil Nadu India</p> <p><b>2)Mr.Mutkule Prasad Raghunath</b></p> <p><b>3)Dr. Virendra Singh Kushwah</b></p> <p><b>4)Jyoti Parashar</b></p> <p><b>5)Mandeep Kaur</b></p> <p><b>6)Dr.Vinay Tila Patil</b></p> <p><b>7)Mr.D.Saravanan</b></p> <p><b>8)Dr.MK Jayanthi Kannan</b></p> <p><b>9)Dr.D.Stalin David</b></p> <p><b>10)Dr. Mohamed Gouse Galety</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. K. Arumugam</b></p> <p><b>2)Mr.Mutkule Prasad Raghunath</b></p> <p><b>3)Dr. Virendra Singh Kushwah</b></p> <p><b>4)Jyoti Parashar</b></p> <p><b>5)Mandeep Kaur</b></p> <p><b>6)Dr.Vinay Tila Patil</b></p> <p><b>7)Mr.D.Saravanan</b></p> <p><b>8)Dr.MK Jayanthi Kannan</b></p> <p><b>9)Dr.D.Stalin David</b></p> <p><b>10)Dr. Mohamed Gouse Galety</b></p>
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(57) Abstract :

Intelligent Patient Healthcare Monitoring using AI This invention applies to health management in general, and more specifically, to a process and framework for diagnosing and prognostic health management of host systems using artificial intelligence. The machine may include a memory for storing instructions and a neural network controller coupled to the memory in one embodiment. The instructions configure the neural network controller to track a multitude of specific patterns produced in real-time. The diversity of device parameters indicates the host system's system-level efficiency. The instructions configure the neural network controller to compare the plurality of unique patterns to a plurality of predetermined patterns corresponding to the plurality of system parameters to detect potential anomalies in the host system and one or more subsystems of the plurality of subsystems, where the one or more subsystems contribute to the potential anomaly.

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023345 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SENSOR BASED INTELLIGENT SYSTEM TO DETECT BLACK FUNGUS INFECTION AMONG COVID RECOVERED PATIENTS

<p>(51) International classification :A61B0005000000, A61B0005020500, A61B0005103000, A61B0005107000, A61B0005117100</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Vivek Veeraiah</b> Address of Applicant :Department of R&amp;D, Computer Science, Adichunchanagiri University, B.G Nagara, Mandya District, Karnataka, India 571448 Karnataka India <b>2)Dr.Roopaa G M</b> <b>3)Dr. Sudhir Kumar Sharma</b> <b>4)Ali Akhtar</b> <b>5)Dr. Nazrul Haq</b> <b>6)Swati Shailesh Chandurkar</b> <b>7)Smita Khairnar</b> <b>8)Sabah Ansar</b> <b>9)Sarah Farhat</b> <b>10)Shailaja Pede</b> <b>11)Mr Suresh Sudam Kolekar</b> <b>12)Dr.S.Balamurugan</b></p> <p>(72)Name of Inventor : <b>1)Vivek Veeraiah</b> <b>2)Dr.Roopaa G M</b> <b>3)Dr. Sudhir Kumar Sharma</b> <b>4)Ali Akhtar</b> <b>5)Dr. Nazrul Haq</b> <b>6)Swati Shailesh Chandurkar</b> <b>7)Smita Khairnar</b> <b>8)Sabah Ansar</b> <b>9)Sarah Farhat</b> <b>10)Shailaja Pede</b> <b>11)Mr Suresh Sudam Kolekar</b> <b>12)Dr.S.Balamurugan</b></p>
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(57) Abstract :

The Sensor-based Intelligent System to Detect BLACK FUNGUS INFECTION among COVID Recovered Patients (DBFI) helps the patients to make use of the DBFI to capture the patient face and process it and alert the patient automatically if any symptoms are identified. The patient needs to wear the image processing device holder and helmet to utilize the benefits of DBFI. The image processing device with a camera helps to capture the patient face. The device also processes the image with an intelligent system cum control unit and identifies the symptoms like one-sided facial swelling, nasal or sinus congestion, shortness of breath and fever, etc. The colour sensor is used to identify nose cold colour and it will be transferred to the intelligent system with the control unit. Various sensors like heart rate sensor, temperature sensor, blood pressure sensor, and breath and sound sensor are used to measure the body basic health values and these values are transferred to the control unit. If any symptoms are related to Black Fungus then the control unit alerts the patient with a speaker. The control unit also transfers the symptoms to registered doctors. The DBFI control unit helps to monitoring and managing the successful functioning of the whole DBFI system. By using this DBFI, the patients can make use of the DBFI to capture the patient face and process it, and alert the patient automatically if any symptoms are identified.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023431 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INTELLIGENT BATTERY SWAPPING TECHNOLOGY FOR E- VEHICLE

<p>(51) International classification :B60L0053800000, H02J0007000000, B60S0005060000, B60L0053300000, B60L0003000000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number:NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Prof. Koteswara Rao Vaddempudi</b> Address of Applicant :Professor, ECE Dept Prakasam Engineering College Kandukur, Prakasam dt. &amp; Research Scholar, VFSTR, Vadlamudi, Guntur dt Andhra Pradesh India</p> <p><b>2)Dr. Raja Lahiri</b></p> <p><b>3)Mr.Ramashis Banerjee</b></p> <p><b>4)Mr.SARAVANAN K G</b></p> <p><b>5)Mr.Bharath M N</b></p> <p><b>6)Mr.Kousik S</b></p> <p><b>7)Mr. Praveen Kumar. UB</b></p> <p><b>8)Mrs Prakruthi Parthasarathy</b></p> <p><b>9)Dr. Pavithra G</b></p> <p><b>10)Dr. Shivappa H.A.</b></p> <p><b>11)Mr. Mahesh Kumar A S</b></p> <p><b>12)Mr. Rajesh A S</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Prof. Koteswara Rao Vaddempudi</b></p> <p><b>2)Dr. Raja Lahiri</b></p> <p><b>3)Mr.Ramashis Banerjee</b></p> <p><b>4)Mr.SARAVANAN K G</b></p> <p><b>5)Mr.Bharath M N</b></p> <p><b>6)Mr.Kousik S</b></p> <p><b>7)Mr. Praveen Kumar. UB</b></p> <p><b>8)Mrs Prakruthi Parthasarathy</b></p> <p><b>9)Dr. Pavithra G</b></p> <p><b>10)Dr. Shivappa H.A.</b></p> <p><b>11)Mr. Mahesh Kumar A S</b></p> <p><b>12)Mr. Rajesh A S</b></p>
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(57) Abstract :

Abstract Intelligent battery swapping technology for E- vehicle A commercial electronic vehicle is supplied with a battery substitution and a battery replacement device. In its main structure, the replacement device includes the positioning mechanism, including a vertical positioning mechanism and a horizontal positioning mechanism, the arrangement of vertical positions inside the Main Frame, and the arrangement of the horizontal positioning system under the main framework. The battery substitution device consists of a battery substitution system which often consists of a power supply unit, a charging unit and a control and contact unit. This allows battery substitute devices in electric cars to recycle battery packaging immediately, increasing battery substitution performance and enabling more battery substitution per unit of time to be performed, thus allowing a charger to conduct a complete charging and a greater usage rate.

No. of Pages : 29 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023868 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVICE FOR MEASURING ATMOSPHERIC PARAMETERS IN AN AREA OF INTEREST

(51) International classification	:G01D0005140000, A61B0005000000, G06T0011200000, A63B0024000000, G16H0040630000	(71) <b>Name of Applicant :</b> <b>1)Wolkus Technology Solutions Private Limited</b> Address of Applicant :#680, 1st Floor, 13th Cross, 27th Main, HSR Layout, 1st Sector, Bengaluru -560102, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KULKARNI, Vidyadhar</b>
(33) Name of priority country	:NA	<b>2)BHARADWAJ, Abhay S</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a device for measuring one or more atmospheric parameters of an area of interest. The device includes a first sensing module comprising one or more sensing devices configured for sensing the one or more atmospheric parameters of the area of interest and correspondingly generate a set of first signals. A processing module removably configured with the first sensing module, and the processing module is configured to receive the set of first signals, and the processing module measure the one or more values, based on the set of first signals, of the one or more atmospheric parameters.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023939 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TOILET SEAT FOR PERSONS WITH SPINAL CORD INJURY

(51) International classification	:A47K0013000000, A47K0013240000, A47K0017020000, E03D0009080000, A47K0013140000	(71) <b>Name of Applicant :</b> <b>1)SREE BALAJI MEDICAL COLLEGE &amp; HOSPITAL</b> Address of Applicant :No 7, WORKS ROAD, CHENNAI TAMIL NADU INDIA 600 044. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)DR. KARTHIKEYAN RAMACHANDRAN</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TITLE: TOILET SEAT FOR PERSONS WITH SPINAL CORD INJURY APPLICANT: SREE BALAJI MEDICAL COLLEGE & HOSPITAL ABSTRACT The present invention discloses a toilet seat for persons with spinal cord injury. The toilet seat of the present invention comprises of (a) a main slot [1] of shape of any conventional toilet bowl upper face and adapted to be positioned on toilet bowl, (b) an elliptical slot [2] integrated above to the main slot [1] for the hand to go behind for Digital evacuation / peri anal stimulation; (c) a posterior sleeve integrated above to the elliptical slot [2] for holding water pipe with hand shower; (d) an anterior sleeve[6]integrated below the main slot [1] for holding for Foleys catheter (e) circular slots [4] positioned adjacent to the anterior sleeve[6] for holding a handle to hold thighs in abduction when there spasticity for better perineal cleaning and care; and (e) a handle [5] positioned inside the circular slot [4] to hold the thigh in abduction.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023940 A

(19) INDIA

(22) Date of filing of Application :28/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HERBAL FORMULATION USEFUL AS A NATURAL TOOTH POWDER

(51) International classification	:A61K0036610000, A61K0036185000, A61Q0011000000, A61K0036580000, A61K0008970000	(71) <b>Name of Applicant :</b> <b>1)SREE BALAJI MEDICAL COLLEGE &amp; HOSPITAL</b> Address of Applicant :No 7, WORKS ROAD, CHENNAI TAMIL NADU INDIA 600 044. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)DR. D.BINDU</b>
(33) Name of priority country	:NA	<b>2)DR. CHITRALEKHA SAIKUMAR</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**TITLE: HERBAL FORMULATION USEFUL AS A NATURAL TOOTH POWDER APPLICANT: SREE BALAJI MEDICAL COLLEGE & HOSPITAL ABSTRACT** The present invention discloses a process of preparation of herbal formulation for use as natural tooth powder. The process of the present invention comprises of the following steps; a. procuring fruits of Terminalia chebula, Terminalia bellarica and Emblica officinalis, deseeded and sun dried for predetermined days followed by mixing and grinding predetermined amount of the deseeded and sun dried fruits of Terminalia chebula, Terminalia bellarica, Emblica officinalis and sieved to form a mixture A; b. procuring seeds of Elettaria cardamomum, flower bud of Syzygium aromaticum and fruit of Piper cubeba and shade dried for predetermined days followed by mixing and grinding predetermined amount of the shade dried seeds of Elettaria cardamomum, flower bud of Syzygium aromaticum and fruit of Piper cubeba and sieved to form a mixture B; c. procuring twigs of Azadirachta indica and shade dried for predetermined days followed by grinding predetermined amount of shade dried twigs of Azadirachta indica and sieved to form a mixture C; d. mixing the mixture A, B and C together with predetermined amount of sodium chloride to form the said herbal formulation and stored in air tight container. The present invention also disclose an herbal formulation for use as natural tooth powder prepared by the process discussed above.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141023966 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SMART FIRE EXTINGUISHING ROBOT

(51) International classification	:G08B0025000000, A62C0003020000, A62C0037360000, G08B0017120000, A62C0027000000	(71)Name of Applicant : <b>1)Dr. Jineeth Joseph</b> Address of Applicant :Assistant Professor Department of Electrical and Electronics SAINTGITS College of Engineering, Kottukulam Hills Pathamuttom P. O Kottayam 686532 KERALA Kerala India
(31) Priority Document No	:NA	<b>2)Alan Liju Mathew</b>
(32) Priority Date	:NA	<b>3)Jagan Shiju</b>
(33) Name of priority country	:NA	<b>4)Sreeraj Ajith</b>
(86) International Application No	:NA	<b>5)Athira Jayan</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. Jineeth Joseph</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Alan Liju Mathew</b>
Filing Date	:NA	<b>3)Jagan Shiju</b>
(62) Divisional to Application Number	:NA	<b>4)Sreeraj Ajith</b>
Filing Date	:NA	<b>5)Athira Jayan</b>

(57) Abstract :

Nowadays, Fire accidents are very common and sometimes it becomes very difficult for a fireman to save someone<sup>TM</sup>s life. It is not always possible for a human to avoid or control fire accidents. Fire rescue systems are mostly useful in industries where probability of accidental fire is more. The limitation of the human system is the safety ,as fire is dangerous for humans. It is important to ensure the safety of firefighters and the victims caught in fires.In order to overcome such difficulties,firefighting robot is introduced. By designing and implementing an autonomous robot capable of detecting and extinguishing flames, disasters can be avoided with minimal risk to human life. The scope of the project in the industrial sector is vast,especially in the fire department. The main operation of the robot is to detect and extinguish the fire source with the input from the centralised system and sensors and extinguishing flames with ABCD powder or foam orCO2 according to the situation. But dry powder is more effective. Also the system can sense the presence of hazardous gas with the help of gas sensor. By detecting the presence of fire, system can provide information to the fire force as well as to the users according to the intensity of fire .It can be controlled automatically as well as manually with an external Application message seeking help during an emergency and an Alert Generating Unit (AGU) installed at locations like nearby police station, hospital or a care taker<sup>TM</sup>s premises, from where an assistance/help is initiated.

No. of Pages : 14 No. of Claims : 3

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED AUTOMATED MATERIAL MANAGEMENT SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>(71)Name of Applicant :</p> <p><b>1)SHAIK RAHAMAT BASHA, Rajeev Gandhi Memorial College of Engineering and Technology</b> Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nerawada 'X' Roads, Kurnool District, Nandyala, Andhra Pradesh 518501, India. Email: basha.ste@gmail.com Mobile No: 8919209298 Andhra Pradesh India</p> <p><b>2)Moqdad Ibrahim Jassem, University Pendidikan Sultan Idris</b></p> <p><b>3)Hameed Hasan Khalaf, Tikrit University</b></p> <p><b>4)Abdulsattar Abdullah hamad, Madurai Kamaraj University</b></p> <p><b>5)Rajat Srivastava, University of Petroleum and Energy Studies</b></p> <p><b>6)Farook Nehad Abed, I'mam Aladham Gollege</b></p> <p><b>7)Dr. Chandrashekar K., SJB Institute of Tech</b></p> <p><b>8)Dr. Shivappa H.A, Dr. Ambedkar Institute of Technology</b></p> <p><b>9)Dr. Pavithra G, Dayananda Sagar College of Engg. (DSCE)</b></p> <p><b>10)Dr.L.Jerin Leno, DMI St John The Baptist University</b></p> <p><b>11)Dr. Glorindal Selvam, DMI St John The Baptist University</b></p> <p><b>12)Venkatesh R, PSNA College of Engineering and Technology</b></p> <p><b>13)Dr.M. Thangamani, Kongu Engineering College</b></p> <p>(72)Name of Inventor :</p> <p><b>1)SHAIK RAHAMAT BASHA, Rajeev Gandhi Memorial College of Engineering and Technology</b></p> <p><b>2)Moqdad Ibrahim Jassem, University Pendidikan Sultan Idris</b></p> <p><b>3)Hameed Hasan Khalaf, Tikrit University</b></p> <p><b>4)Abdulsattar Abdullah hamad, Madurai Kamaraj University</b></p> <p><b>5)Rajat Srivastava, University of Petroleum and Energy Studies</b></p> <p><b>6)Farook Nehad Abed, I'mam Aladham Gollege</b></p> <p><b>7)Dr. Chandrashekar K., SJB Institute of Tech</b></p> <p><b>8)Dr. Shivappa H.A, Dr. Ambedkar Institute of Technology</b></p> <p><b>9)Dr. Pavithra G, Dayananda Sagar College of Engg. (DSCE)</b></p> <p><b>10)Dr.L.Jerin Leno, DMI St John The Baptist University</b></p> <p><b>11)Dr. Glorindal Selvam, DMI St John The Baptist University</b></p> <p><b>12)Venkatesh R, PSNA College of Engineering and Technology</b></p> <p><b>13)Dr.M. Thangamani, Kongu Engineering College</b></p>
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(57) Abstract :

Material management in jobsites comprises a managerial practice that devotes a notable exertion to confirm the existence of proper amounts of materials and effectively facilitates their transition process in and out of jobsites. In jobsites, where materials are being received, stored, and relocated, it is critical to endlessly keep updated records of their quantity during project period. Such updated records permit practitioners to successfully identify insufficient materials in a timely manner. This invention provides an artificial intelligence based automated material management system for an effective material management in the jobsites. This system automatically senses and piece target objects in point cloud models via a deep learning-based approach and then map the semantic values onto point cloud models for 3D semantic segmentation.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141024018 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PREHISTORIAN INDOOR NAVIGATION BASED ON SENSORY INVASION FOR VISUALLY CHALLENGED PEOPLE

(51) International classification	:G01S0017890000, G01S0017931000, G01S0007481000, G01S0017420000, G01S0017860000	(71)Name of Applicant : <b>1)Dr. M. Kasiselvanathan, Sri Ramakrishna Engineering College, Coimbatore.</b> Address of Applicant :Assistant professor Department of ECE Sri Ramakrishna Engineering College Vattamalaipalayam, Coimbatore-641022 Tamil Nadu India <b>2)Mr. Anshul Saxena, Christ University, Bangalore.</b> <b>3)Dr. Chandra PrakashLora, Vivekananda Global University, Jaipur.</b> <b>4)Mr. Srinivasa G, Sri Venkateswara College of engineering, Bangalore</b> <b>5)Dr.S.T.Deepa, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai</b> <b>6)Dr.J.Persis Jessintha, Bishop Heber College, Trichy</b> <b>7)Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. M. Kasiselvanathan, Sri Ramakrishna Engineering College, Coimbatore.</b> <b>2)Mr. Anshul Saxena, Christ University, Bangalore.</b> <b>3)Dr. Chandra PrakashLora, Vivekananda Global University, Jaipur.</b> <b>4)Mr. Srinivasa G, Sri Venkateswara College of engineering, Bangalore</b> <b>5)Dr.S.T.Deepa, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai</b> <b>6)Dr.J.Persis Jessintha, Bishop Heber College, Trichy</b> <b>7)Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In this era, navigation continues to be a vital component in both outdoor and indoor environments, and many solutions have been given in both cases. Usually GPS is used for navigation, but in an indoor or underground environment, its signal is almost never available. In this work, we used LiDAR (Light Detection And Ranging) sensor and IMU sensor. LIDAR sensor is a famous remote sensing strategy utilized for estimating the specific distance of an item on the world's surface. It assumes a significant part for the prehistorian to comprehend the surface. LiDAR can identify miniature geography that is covered up by vegetation which assists classicist with understanding the surface. An IMU is a specific type of sensor that measures angular rate, force and sometimes magnetic field. Technically, the term IMU • refers to just the sensor, but IMUs are often paired with sensor fusion software which combines data from multiple sensors to provide measures of orientation and heading.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141024065 A

(19) INDIA

(22) Date of filing of Application :30/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MACHINE LEARNING BASED OPTIMIZED MANAGEMENT OF RENEWABLE ENERGY MICROGRIDS

(51) International classification	:H02J0003380000, G06N0020000000, H04W0084180000, H02J0003320000, H02J0001100000	(71)Name of Applicant : <b>1)Kavitha H S,, JSS Academy of Technical Education</b> Address of Applicant :Assistant Professor, Electronics and Communication, JSS Academy of Technical Education Bangalore - Bangalore Karnataka India <b>2)Suguna G C,,JSS Academy of Technical Education</b> <b>3)Sheela S N,VTU</b> <b>4)Anuradha.M.G,JSS Academy of Technical Education</b> <b>5)Sunita L Shirahatti,JSS Academy of Technical Education</b> <b>6)Sowmya R. Bangari,,JSS Academy of Technical Education</b> <b>7)Gouri S Katageri,,JSS Academy of Technical Education</b> <b>8)Mahesh Kumar A S,PES College of Engineering</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Kavitha H S,, JSS Academy of Technical Education</b> <b>2)Suguna G C,,JSS Academy of Technical Education</b> <b>3)Sheela S N,VTU</b> <b>4)Anuradha.M.G,JSS Academy of Technical Education</b> <b>5)Sunita L Shirahatti,JSS Academy of Technical Education</b> <b>6)Sowmya R. Bangari,,JSS Academy of Technical Education</b> <b>7)Gouri S Katageri,,JSS Academy of Technical Education</b> <b>8)Mahesh Kumar A S,PES College of Engineering</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Renewable energy has distributed generation as significant challenge where energy generation and consumption are generally located in nearness. A solution is provided by microgrid for this challenge as it avails integration of distributed generation reliably which includes storage of energy and controlled loads. Microgrid is a electricity generation system that operates in bidirectional mode allowing electricity distribution from suppliers to consumers through digital technology. Hence Microgrids boosts integration of renewable energy sources thereby optimizing energy management through machine learning algorithm. This invention designs and develops wireless sensor network system in integration with webbased platform for optimal management of microgrid through continuous monitoring. High capability of data processing with high storage capacity is availed by integrating machine learning algorithm and IoT platform with LoRaWan technology for deploying and implementing low power wireless remote monitoring network for optimized management of microgrids.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141024066 A

(19) INDIA

(22) Date of filing of Application :30/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED MANAGEMENT OF AUTONOMOUS GUIDED VEHICLE FOR SMART INDUSTRIAL MANUFACTURING

(51) International classification	:G06Q0010060000, G05D0001020000, G06Q0010080000, G05B0019418000, H04L0029080000	(71)Name of Applicant : <b>1)Dr. VeerammaYatnalli, JSS Academy of Technical Education</b> Address of Applicant :Associate Professor, Electronics and Communication, JSS Academy of Technical Education Bangalore - Bangalore Karnataka India Karnataka India <b>2)Dr. Saroja S Bhusare,JSS Academy of Technical Education</b> <b>3)Dr. Poornima N,JSS Academy of Technical Education</b> <b>4)Kavitha M,JSS Academy of Technical Education</b> <b>5)Shubha B,JSS Academy of Technical Education</b> <b>6)Kavitha H S,JSS Academy of Technical Education</b> <b>7)Suguna G C,JSS Academy of Technical Education</b> <b>8)Rajesh A S,Maharaja Institute of Engineering</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. VeerammaYatnalli, JSS Academy of Technical Education</b> <b>2)Dr. Saroja S Bhusare,JSS Academy of Technical Education</b> <b>3)Dr. Poornima N,JSS Academy of Technical Education</b> <b>4)Kavitha M,JSS Academy of Technical Education</b> <b>5)Shubha B,JSS Academy of Technical Education</b> <b>6)Kavitha H S,JSS Academy of Technical Education</b> <b>7)Suguna G C,JSS Academy of Technical Education</b> <b>8)Rajesh A S,Maharaja Institute of Engineering</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In smart factories, flexible and smart transportation is enabled through key enablers of industries Autonomous Guided Vehicles (AGV) which transports materials and pallets on shop-floor. But existing solution of AGV fleet management is poorly integrated with the real time operations of manufacturing, information systems in turn affecting scheduling process of AGV negatively. In order to exploit full potential of AGVs to achieve just in time transportation, intelligent AGV fleet management system is necessary to integrate operational technology (OT) along with information technology (IT) with manufacturing. Also real time prediction of shop-floor logistic is required based on information of manufacturing operations thereby optimizing scheduling process of AGVs. This invention proposes a novel approach of smart management of AGVs for optimizing the manufacturing process in industries which is monitored through sensors and hence accessible from any location through Internet of Things (IOT). This work combines data analysis in real time along with digital twin model which can be deployed in complex environment of industries for achieving optimization of production

No. of Pages : 11 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141024071 A

(19) INDIA

(22) Date of filing of Application :30/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A WEARABLE ARTICLE WITH SENSORS AND ML & AI MODULES FOR ANALYSING BEHAVIOUR OF USER

(51) International classification	:G06N0020000000, G06N0005040000, A61B0005000000, G06N0003000000, G06N0007000000	(71)Name of Applicant : <b>1)Dr.D.Subbarao</b> Address of Applicant :Professor and Vice-Principal, Department of ECE, Siddhartha Institute of Engineering and Technology, Ibrahimpatnam, Hyderabad, Telangana, India. Pin Code:501506 Telangana India <b>2)Mr.G.Suresh Kumar</b> <b>3)Mr.G.Nagarajan</b> <b>4)Mr.Raghu Kumar Lingamallu</b> <b>5)Mr.Venkata Rao Yanamadni</b> <b>6)Dr.Kandunuri Ramakrishna</b> <b>7)Dr.A.V.Sudhakara Reddy</b> <b>8)Dr.Sushma Jaiswal</b> <b>9)Mr.Tarun Jaiswal</b> <b>10)Mr.K.Uma Shankar</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr.D.Subbarao</b> <b>2)Mr.G.Suresh Kumar</b> <b>3)Mr.G.Nagarajan</b> <b>4)Mr.Raghu Kumar Lingamallu</b> <b>5)Mr.Venkata Rao Yanamadni</b> <b>6)Dr.Kandunuri Ramakrishna</b> <b>7)Dr.A.V.Sudhakara Reddy</b> <b>8)Dr.Sushma Jaiswal</b> <b>9)Mr.Tarun Jaiswal</b> <b>10)Mr.K.Uma Shankar</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A WEARABLE ARTICLE WITH SENSORS AND ML & AI MODULES FOR ANALYSING BEHAVIOUR OF USER [032] The present invention discloses a wearable article with sensors and ML & AI modules for analysing behaviour of a user. The wearable article includes, but not limited to, a plurality of sensors to receive varied body vitals of the user; a processing unit to receive the input from the sensors in conjunction with an artificial intelligence interface and a machine learning interface. The artificial intelligence interface and the machine learning interface are configured with an updated database repository on as server to learn and trained the input data for a desired output to analyse the human behaviour. Further, the processing unit is configured to provide a plurality of inferences by comparing a confidence level of the generated inference to a first predetermined threshold. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141024072 A

(19) INDIA

(22) Date of filing of Application :30/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN IOT BASED INTELLIGENT CHARGING AND CHARGING MANAGEMENT SYSTEM FOR ELECTRIC VEHICLE

(51) International classification	:H02J0007000000, B60L0053300000, B60L0053630000, B60L0053140000, B60L0053660000	(71) <b>Name of Applicant :</b> <b>1)Alan Jacob Mathew</b> Address of Applicant :Department of Electrical and Electronics SAINTGITS College of Engineering, Kottukulam Hills Pathamuttom P. O Kottayam 686532 KERALA Kerala India <b>2)Ananthu M. S</b> <b>3)Anjana Mohan</b> <b>4)Sarika A</b> <b>5)Dr. Binu K. Mathew</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Alan Jacob Mathew</b>
(33) Name of priority country	:NA	<b>2)Ananthu M. S</b>
(86) International Application No	:NA	<b>3)Anjana Mohan</b>
Filing Date	:NA	<b>4)Sarika A</b>
(87) International Publication No	: NA	<b>5)Dr. Binu K. Mathew</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Fossil fuels have been used for centuries to generate power, but they pollute the environment, they are non-renewable and unsustainable. The Electric Vehicles (EV) has become an imperative area of research in recent years due to its environment friendly characteristics. The growing demand for the energy comes along with the advancement and development of technology and this has caused the high consumption of energy. Since EVs hold the key to permanent solutions of a better, green and clean environment, there is a need for both an increased number of charging stations and greatly improved charging technique. The proposed system aims to develop an efficient IoT based charging and charging management system for an EV. The system can continuously monitor battery voltage and charging current of an EV while charging on a real time basis using an Android Application. The system also aims to implement a metering technique for an EV charging station.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025143 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL CITRUS LIMON FRUIT ASSISTED BIOMETRIC SYNTHESIZED COBALTOXIDE (CO3O4) NANOPARTICLES AS ANTI

(51) International classification	:B82Y0040000000, B82Y0030000000, A61K0009510000, B22F0009240000, B22F0001000000	(71) <b>Name of Applicant :</b> <b>1)Mrs. C.T. ANURADHA</b> Address of Applicant :DEPARTMENT OF PHYSICS, MEPCO SCHLENK ENGG. COLLEGE, SIVAKASI, TAMILNADU, INDIA-626005 . Tamil Nadu India <b>2)Dr. P. RAJI</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mrs. C.T. ANURADHA</b>
(33) Name of priority country	:NA	<b>2)Dr. P. RAJI</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention reveals the formulation of novel biological benign synthesis of cobalt oxide (C03O4) nanoparticles is obtained using Citrus limon (C.limon) fruit extract at different annealing temperature. XRD assessment affirm the unique facets (2 2 0,3 1 1, 4 0 0,5 1 1 and 4 4 0 planes) of C03O4 nanoparticles. XRD and FTIR studies confirmed that C.limon fruit extract was the principle, reducing as well as stabilizing agent for this green synthesis process. The morphology of C03O4 nanoparticles is obtained by FESEM techniques at distinct annealing temperature. The antibacterial and antifungi activities of synthesized nanoparticles have higher antibacterial and antifungi activity than the standard drug against gram (+) and gram (-) bacteria like S.aureus, S. mutans, K. pneumonia, E. coli and antidingi activity hostile to A. flavus, A. niger which is depicted in this work. These outcomes affirm that the C.limon fruit extract is a dynamic response medium to build C03O4 nanoparticles associated to biomedical by-products due to eco-efficient, cost effective and non toxic chemicals.

No. of Pages : 22 No. of Claims : 7

(54) Title of the invention : CONTRAINDICATION OF OBESITY AND HEREDITY

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61K0031122000, A61K0031427000, G01N0033920000, A61B0005050000, A61K0031403000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)P. YOGA</b> Address of Applicant :ASSISTANT PROFESSOR OF PHYSICLA EDUCATION, ALAGAPPA UNIVERSITY COLLEGE OF PHYSICAL EDUCATION, ALAGAPPA UNIVERSITY, KARAIKUDI - 630003, TAMIL NADU, INDIA. Tamil Nadu India</p> <p><b>2)Dr. CHIDAMBARA RAJA</b></p> <p><b>3)Dr. R. BALA MURALI KRISHNAN</b></p> <p><b>4)Dr. S. KALIDASAN</b></p> <p><b>5)Dr. SEENIMURUGAN.M</b></p> <p><b>6)Mr. R. SELVA KUMAR</b></p> <p><b>7)Dr. M. SELVAM</b></p> <p><b>8)S. JAMES RATHINARAJ</b></p> <p><b>9)Dr. K. ALAGURAJA</b></p> <p><b>10)Dr. K. SELVAKUMAR</b></p> <p>(72)Name of Inventor :</p> <p><b>1) P. YOGA</b></p> <p><b>2)Dr. CHIDAMBARA RAJA</b></p> <p><b>3)Dr. R. BALA MURALI KRISHNAN</b></p> <p><b>4)Dr. S. KALIDASAN</b></p> <p><b>5)Dr. SEENIMURUGAN.M</b></p> <p><b>6)Mr. R. SELVA KUMAR</b></p> <p><b>7)Dr. M. SELVAM</b></p> <p><b>8)S. JAMES RATHINARAJ</b></p> <p><b>9)Dr. K. ALAGURAJA</b></p> <p><b>10)Dr. K. SELVAKUMAR</b></p>
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(57) Abstract :

The present invention is related to the field of physical education. The proposed invention provides the details of contraindication of obesity and heredity. Obesity is a condition that has led some health issue in the human body. Now a days due to the modern day life style people are got obesity highly. Its cause as much major life killing issue occurs in the society.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025146 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ENHANCED MULTI-USER BASED CDA MODEL FORMATION WITH HIGH SECURITY CLOUD SYSTEM

(51) International classification	:H04L0029060000, G06F0021620000, G06F0021550000, H04W0012080000, G06Q0020380000	(71) <b>Name of Applicant :</b> <b>1)Dr.A. Ramalingam</b> Address of Applicant :Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry, India 605107. Pondicherry India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. A. Ramalingam</b>
(33) Name of priority country	:NA	<b>2)Mr. R. Ramakrishnan</b>
(86) International Application No	:NA	<b>3)Mrs. M. Vasuki</b>
Filing Date	:NA	<b>4)Dr. P. Aurchana</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Cloud security is a collection of technology safety and control-based protections designed to secure online stored assets from leakage, misuse, or data loss. Cloud technology, apps, and threat data are involved in security. Using a Software as a Service (SaaS) model, security applications function as software in the cloud. In this paper an improved model for the generation and integration of CDA with the security model and with the multi-user model has been proposed. Both Security and Multi-User model features were found to be lacking in the current system, so adding these makes the system safer and more secure among cloud users. We suggest the protection and multi-user model functionality as an improvement to the current model. From the existing system model, our proposed model has the enriched features of: Secured Cloud data Storage, Dynamically changing group members, file Security, and user revocation modules.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025150 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : IMAGE POLARITY CAPTCHA USING GAUSSIAN BASED EDGE DETECTED IMAGE WITH DEEP NEURAL NETWORK COMPUTER

(51) International classification	:G06K0009620000, G06F0021360000, G06N0003040000, H04L0029060000, G06N0003080000	(71) <b>Name of Applicant :</b> <b>1)Dr.PL.Chithra</b> Address of Applicant :Department of Computer Science, University of Madras Guindy Campus, Chennai, Tamil Nadu, India 600025. Tamil Nadu India <b>2)K.Sathya</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr.PL.Chithra</b>
(33) Name of priority country	:NA	<b>2)K.Sathya</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT CAPTCHA is a reverse Turing test that a computer uses to automatically check whether or not an individual is online. This project suggested a technique for creating CAPTCHA using Gaussian-based edge detected images. In the array, a set of edge detected images appeared alongside a group of dog and cat images. When trying to distinguish the edge detected cat images from other images, the Polarity CAPTCHA achieves a higher performance than other CAPTCHA. In the second phase, clicked images are substituted with edge detected dog images which significantly lower the computer classification performance relative to previous work while increasing dog and cat identification. Furthermore, a deep neural network model (proposed polarity model) was trained with other animals and human images to identify the images in a strong way. Existing image classification algorithms such as DeepFace, FaceNet, and TBE-CNN are used to evaluate these images. This algorithm was unable to predict Gaussian-based edge detected images with any noticeable success. When using this innovative CAPTCHA model, it greatly improves web security.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : COVALENTLY CONJUGATED BONE MORPHOGENIC PROTEIN AND SUPERPARAMAGNETIC IRON OXIDE NANOPARTICLES (SPION) IN DENTAL IMPLANT COATING APPLICATIONS

(51) International classification	:A61K0049180000, A61L0027060000, A61L0027540000, A61K0038180000, A61L0027320000	(71) <b>Name of Applicant :</b> <b>1)SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, SAVEETHA DENTAL COLLEGE, SAVEETHA UNIVERSITY</b> Address of Applicant :NO.162, POONAMALLEE HIGH ROAD, CHENNAI, TAMILNADU, INDIA 600077. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)DHANRAJ GANAPATHY</b> <b>2)RAMYA RAMADOSS</b> <b>3)RAJESHKUMAR SHANMUGAN</b> <b>4)DEEPAK NALLASWAMY</b> <b>5)THIYANESWARAN</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

ABSTRACT OF THE INVENTION Implant failure is implant loss that requires removal of the implant. Reasons for implant failure can be divided into biological, mechanical, and iatrogenic failure as well as inadequate patient adaption. Common complications leading to implant failure is due to lack of adequate osseointegration in the initial stages and bacterial biofilm formation at later stages. Despite existence of about 1300 implant designs, implant failures are still inevitable till date. Challenges in terms of presence of co-morbidities like diabetes mellitus, osteoporosis, bisphosphonate therapy, radiotherapy are yet to be overcome. Considering the significant increase in elderly population over the last few decades, management of co-morbidities are crucial in implant related functional restoration. This invention focusses on surface modifications in implant with covalently conjugated Bone morphogenic protein and superparamagnetic iron oxide nanoparticles (SPION) coating on to a metal titanium substrate. Accordingly, one aspect of the present invention provides a system to conjugate the growth factor on the nanoparticle. Further aspect of the invention is to coat the Bone morphogenic protein conjugated Super paramagnetic iron oxide nanoparticle on to the titanium implant surface. Prepared particles will be compounded with polyvinylidene fluoride and coated to titanium implants. Another object of the invention is to provide a method to create a Bone morphogenic protein conjugated Super paramagnetic iron oxide nanoparticle coated implant. Recombinant human BMP will be procured. Dextran coating will be done on the magnetic nanoparticles. This would be further cross-linked with epichlorohydrin and aminated. Magnetic nanoparticles will be suspended in a phosphate buffered solution of BMP. The conjugation reaction will be carried out at 20°C with shaking for 1 hour. Soluble carbodiimide dextran will be activated by water and coupled to the carboxyl groups of BMP, producing a magnetic conjugate. The amino-functionalized bone morphogenic protein conjugated Super paramagnetic iron oxide nanoparticle on to the titanium implant surface. -NH<sub>2</sub> groups bond with TiO<sub>2</sub> ions.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : SMILAX ZEYLANICALINN FIBER REINFORCED POLYMER COMPOSITE MANUFACTURING

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61K0036900000, A61K0036896000, B29C0053660000, B29K0105060000, B29K0105100000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1) Dr.SP. ARUNKUMAR</b> Address of Applicant :ASSOCIATES PROFESSOR , DEPARTMENT OF MECHATRONICS ENGINEERING, NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY , COIMBATORE, TAMILNADU INDIA 641 105 Tamil Nadu India</p> <p><b>2)Dr. C. PRABHA</b></p> <p><b>3)Dr. M. SANTHOSH</b></p> <p><b>4)Dr. P. MANIARASAN</b></p> <p><b>5)Dr. R. MALKIYARASALIN PRINCE</b></p> <p><b>6)Dr. D. ARULKIRUBAKARAN</b></p> <p><b>7)Dr. S. KARTHIKEYAN</b></p> <p><b>8)Dr. K.M. SAKTHIVEL</b></p> <p><b>9)Mr. BAGATH SINGH.N</b></p> <p><b>10)VADIVEL. M</b></p> <p>(72)Name of Inventor :</p> <p><b>1) Dr.SP. ARUNKUMAR</b></p> <p><b>2)Dr. C. PRABHA</b></p> <p><b>3)Dr. M. SANTHOSH</b></p> <p><b>4)Dr. P. MANIARASAN</b></p> <p><b>5)Dr. R. MALKIYARASALIN PRINCE</b></p> <p><b>6)Dr. D. ARULKIRUBAKARAN</b></p> <p><b>7)Dr. S. KARTHIKEYAN</b></p> <p><b>8)Dr. K.M. SAKTHIVEL</b></p> <p><b>9)Mr. BAGATH SINGH.N</b></p> <p><b>10)VADIVEL. M</b></p>
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(57) Abstract :

A Smilax zeylanicalinn fiber extraction technique for making the composite. The other governing parameters for selection is state of dryness. If it is completely dry, the extraction of fiber is harder even in this state. So, the climber plant which correct state is exactly with minimum of 100 centimeters length with little wetness into it. The wetness can be identified by physical examination. In this state the complete length of climber plant stem like structure is removed from the plant. Next stage is stem is dried to specific state thereby the fiber can be cut into the appropriate size and make it as composite material.

No. of Pages : 7 No. of Claims : 2



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025202 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A NATURAL FIBRE PREPARATION PROCESS AND A FABRIC THEREFROM

(51) International classification	:D01C0001020000, A61K0036185000, D21B0001020000, D01B0001500000, D01B0001100000	(71) <b>Name of Applicant :</b> <b>1) M. SINDHU</b> Address of Applicant :3/X6B, SITHANA IKEN PALAYAM, KARADIBAVI, COIMBATORE, TAMIL NADU, INDIA - 641658. Tamil Nadu India
(31) Priority Document No	:NA	<b>2)J. BANUPRIYA</b>
(32) Priority Date	:NA	<b>3)D. GOPALAKRISHNAN</b>
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1) M. SINDHU</b>
Filing Date	:NA	<b>2)J. BANUPRIYA</b>
(87) International Publication No	: NA	<b>3)D. GOPALAKRISHNAN</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a process for preparation of bark fibre from Helicteres Isora. Said process consists the procedures of Helicteres Isora stalks cutting and using steam explosion for retting process. The coarse bark fibres is extracted and treated with an alkali solution and said solution consists of sodium hydroxide and non - ionic detergent. The treated fibres are washed in hot water followed by washing in cold water. Said bark fibres neutralized with an acetic acid solution. Said neutralized fibres are dried in an ambient temperature. Further removing the bark fibres hard texture using softening agents.

No. of Pages : 14 No. of Claims : 3

(54) Title of the invention : A LATCHING MECHANISM FOR SOLENOID VALVE AND A METHOD TO OPERATE THE SAME

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61B0017220000, G05D0016200000, F01L0013000000, F01L0001260000, H01R0012700000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1) Dr. N. THILLAIKARASI</b> Address of Applicant :DEAN/STUDENT AFFAIRS &amp; ASSISTANT PROFESSOR, DEPARTMENT OF EEE, DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, OPPOSITE TO SALEM AIRPORT, SIKKANAMPATTY (P.O), SALEM, TAMIL NADU, INDIA-636309. Tamil Nadu India</p> <p><b>2)Dr. S. RAJENDRAN</b></p> <p><b>3)Dr. P. SELVAKUMAR</b></p> <p><b>4)Dr. R. MANIKANDAN</b></p> <p><b>5)K. M. KARTHIKA</b></p> <p><b>6)Dr. S. VENKATESH</b></p> <p><b>7)R. SARAVANAN</b></p> <p><b>8)B. SATHYASEELAN</b></p> <p><b>9)P. SARAVANAKUMAR</b></p> <p><b>10)Dr. M. VARATHARAJU</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. N. THILLAIKARASI</b></p> <p><b>2)Dr. S. RAJENDRAN</b></p> <p><b>3)Dr. P. SELVAKUMAR</b></p> <p><b>4)Dr. R. MANIKANDAN</b></p> <p><b>5)K. M. KARTHIKA</b></p> <p><b>6)Dr. S. VENKATESH</b></p> <p><b>7)R. SARAVANAN</b></p> <p><b>8)B. SATHYASEELAN</b></p> <p><b>9)P. SARAVANAKUMAR</b></p> <p><b>10)Dr. M. VARATHARAJU</b></p>
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(57) Abstract :

The present invention discloses a latching mechanism for regulating fluid in solenoid valves. Said latching mechanism consists of a core tube (21) with a cam means (22), an armature (31), a lug member (41), and a push rod (51). The latching mechanism latches and de-latch by energizing the solenoid coil for regulating the fluid. Said latching mechanism actuates by using power pulse of singular polarity. The power pulse required to operate the latching mechanism does not require continuous energy to hold the valve in position. Therefore, the power consumption of solenoid valves is reduced and service life is increased.

No. of Pages : 26 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025205 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ASSISTANCE KIT FOR TRAFFIC CONTROLLERS

(51) International classification	:G06Q0010060000, G06Q0050260000, G08G0005000000, A01G0025160000, H04N0021610000	(71)Name of Applicant : <b>1) B. VIJAYA NIRMALA</b> Address of Applicant :24-A, M.K.S NAGAR, PILLAIYARPALAYAM, DINDIGUL, TAMIL NADU, INDIA- 624 001 Tamil Nadu India <b>2)Dr. S. BAULKANI</b> <b>3)K.B. SRI SATHYA</b> <b>4)Mr. S. RAM PRASATH</b> <b>5)Mr. R. SANTHANA KRISHNAN</b> <b>6)G. VINOTH RAJKUMAR</b> <b>7)N. KARUPPASAMY</b> <b>8)Dr. S. GOPIKUMAR</b> <b>9)S. MATHUMITHA MURALI</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1) B. VIJAYA NIRMALA</b>
(33) Name of priority country	:NA	<b>2)Dr. S. BAULKANI</b>
(86) International Application No	:NA	<b>3)K.B. SRI SATHYA</b>
Filing Date	:NA	<b>4)Mr. S. RAM PRASATH</b>
(87) International Publication No	: NA	<b>5)Mr. R. SANTHANA KRISHNAN</b>
(61) Patent of Addition to Application	:NA	<b>6)G. VINOTH RAJKUMAR</b>
Number	:NA	<b>7)N. KARUPPASAMY</b>
Filing Date	:NA	<b>8)Dr. S. GOPIKUMAR</b>
(62) Divisional to Application Number	:NA	<b>9)S. MATHUMITHA MURALI</b>
Filing Date	:NA	

(57) Abstract :

Assistance Kit for Traffic Controller which can help the traffic controller performing his/her duty on road 36524. The kit will protect them from severe sun stroke and rain with a portable umbrella, a water sprinkler attached with it for temperature & moisture control in sunny days in which the sprinkler needs to be turned on and off automatically. The Kit will be loaded with portable camera, Alarm, Laser light beam etc. to enhance the performance of a traffic controller of a smart city. We have surveyed number of traffic wardens and traffic controller staff to identify the difficulties they are facing in performing their duties in adverse atmospheric situations. They are suffering a lot specially in summer and in monsoon situations during sunny and rainy days. If they are equipped with the portable kit which gives them mobile shelter as well technical assistance in all situations. Situational difficulties of a traffic controller in performing their duties in all weather conditions. As they are performing their duties in all-weather situations 365 days and 24-hours.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025208 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SMART CHILD RESCUE SYSTEM FROM BOREWELL

(51) International classification	:G08B0027000000, A63F0007020000, G08B0007060000, A41D0011000000, E06B0009326000	(71)Name of Applicant : <b>1) Dr.V. CHANDRASEKARAN</b> Address of Applicant :125, KUMMAKKALIPALAYAM, ERODE, TAMIL NADU, INDIA, 638 052 Canada <b>2)Dr. M. PRAVIN KUMAR</b> <b>3)Ms. K.S. KAUSALYA DEVI</b> <b>4)S.B. ABITHA</b> <b>5)R. DIVYA</b> <b>6)Mr. P. PRAKASH</b> <b>7)Mr. S. SURENDER</b> <b>8)Mrs. P. POORNIMA</b> <b>9)Mr.S. POORANACHANDRAN</b> <b>10)Mr.S. NACHIMUTHU</b> <b>11)Mr.S. PAVITHRA</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr.V. CHANDRASEKARAN</b> <b>2)Dr. M. PRAVIN KUMAR</b> <b>3)Ms. K.S. KAUSALYA DEVI</b> <b>4)S.B. ABITHA</b> <b>5)R. DIVYA</b> <b>6)Mr. P. PRAKASH</b> <b>7)Mr. S. SURENDER</b> <b>8)Mrs. P. POORNIMA</b> <b>9)Mr.S. POORANACHANDRAN</b> <b>10)Mr.S. NACHIMUTHU</b> <b>11)Mr.S. PAVITHRA</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In India for past few days, there have been several accidents of children falling into abandoned bore wells which is left uncovered and get trapped. Abandoned borewells seems to be death pits for children. These bore wells in turn have started to take many innocent lives. In these cases, normal operation of child rescue is done by using big machines with large manpower involvement. The rescue process to save the child from bore well is a very long and complicated process. It is time taking process and also risky in various ways. So, the aim of the proposal is to prevent the Children from falling in ton the Borewell. Our proposal implies a new design which has a sensor kept at top of borewell hole which helps to sense the child if he fell inside. If the system senses the child the automatic horizontal closure kept at around five feet depth closes and prevents the children from falling beneath it. It is easy to rescue the child from five feet than five hundred feet. This system also alerts by giving siren and messages to rescue team and concern officials with location. Hence this system will help to prevent children from falling in borewell and get trapped.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025209 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SMART PORTABLE SAFETY GAS MONITORING SYSTEM FOR DRAINAGE BASED ON IOT

(51) International classification	:H04W0084180000, G08B0021140000, G08B0021120000, G06F0016248000, A62B0009000000	(71)Name of Applicant : <b>1)Mr. DINESHKUMAR. T</b> Address of Applicant :KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY, (AUTONOMOUS) NAMAKKAL-TRICHY MAIN ROAD, THOTTIAM, TIRUCHIRAPALLI, TAMIL NADU, INDIA-621 215 Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. R. PUVIARASI</b>
(32) Priority Date	:NA	<b>3)Dr. R. MEENAKSHI</b>
(33) Name of priority country	:NA	<b>4)Dr. V SURESH BABU</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1) Mr. DINESHKUMAR. T</b>
(87) International Publication No	: NA	<b>2)Dr. R. PUVIARASI</b>
(61) Patent of Addition to Application	:NA	<b>3)Dr. R. MEENAKSHI</b>
Number	:NA	<b>4)Dr. V SURESH BABU</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A protection device to track the danger of drainage gas or the extent of drainage poisoning for toxic gases is invented. It helps when gas intensities are higher than the risk. This device is useful to send warnings to control room as well as drainage staff and all relevant deciding officers involved about increased level of hazards above danger using Wireless sensor network. Using sensor module, we can read the intensity of the harmful gases that too can be recorded and stored in the server in order to access it later. Stored data can be useful for information on threat level or toxic gases in numerous continent regions.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025235 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND A METHOD FOR WHITE LIGHT BASED DEEP 3D SCANNING AND DEVELOPING OF THE MOVABLE OBJECTS

(51) International classification	:G06K0009000000, G01N0015140000, G01S0017890000, G06T0001000000, A61B0005107000	(71) <b>Name of Applicant :</b> <b>1) U. JOEL NIPUN RUFUS</b> Address of Applicant : F-32, AP GENCO COLONY EEGALAPENTA, SRISAILAM PROJECT(L.F.C), SRISAILAM DAM(WEST), MAHABUB NAGAR, 509 326 ANDHRA PRADESH Andhra Pradesh India
(31) Priority Document No	:NA	<b>2)A. RAGHUVARAN</b>
(32) Priority Date	:NA	<b>3)M.K. JAYARAM REDDY</b>
(33) Name of priority country	:NA	<b>4)C. CHANDRASEKHARA SASTRY</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1) U. JOEL NIPUN RUFUS</b>
(87) International Publication No	: NA	<b>2)A. RAGHUVARAN</b>
(61) Patent of Addition to Application	:NA	<b>3)M.K. JAYARAM REDDY</b>
Number	:NA	<b>4)C. CHANDRASEKHARA SASTRY</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The system for detecting and 3D scanning of a movable object amidst the multiple objects in the field of vision for generating a three dimensional printed model comprises a hexagonal skeletal arrangement made up of removably fixed PVC pipes and T-joints assembled combined together by the 90 degree corner pieces for a height of at least ten foot wherein the space enclosed by the said hexagonal structure accommodates the object to be scanned; plurality of cameras for travelling on the said structure for detecting the red, green and blue colour components, body shape with contour boundaries and the facial features of the object enclosed by the said hexagonal skeletal arrangement; multiple depth sensors wherein each of the sensor comprising monochrome CMOS sensors; infrared projectors for transmitting and receiving the near infrared light towards the object for detecting its distance and creating the 3D image of the entire region enclosed by the said hexagonal skeletal structure; a hybrid bipolar stepper motor for controlling the movement of the said camera, sensor and depth sensor combination on the pre-determined course; drivers for the said stepper motor to control the speed and direction of movement of the stepper motor; arduino uno based micro controller with the microchip ATmega328P for processing the multiple signals received from the plurality of devices; power supply with its adapter including AC/DC converter for powering the devices and finally a 3D printing raw material on vegetable based plastic for enabling the 3D model of the scanned objects.

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025238 A

(19) INDIA

(22) Date of filing of Application :07/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PARALLEL ENCODER AND DECODER NETWORK FOR BRAIN TUMOR SEGMENTATION

(51) International classification	:G06N0003040000, G06K0009620000, G06K0009000000, G06T0007110000, G06T0007120000	(71) <b>Name of Applicant :</b> <b>1)Dr. PL. CHITRA</b> Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF MADRAS, GUINDY CAMPUS, CHENNAI, TAMIL NADU, INDIA -600025 Tamil Nadu India <b>2)G. DHEEPA</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1) Dr. PL. CHITRA</b>
(33) Name of priority country	:NA	<b>2)G. DHEEPA</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To automate the tumor segmentation process, we propose an effective parallel encoder and decoder network to segment brain tumor regions in Magnetic Resonance Imaging (MR1). This network contains two parallel and one downsampling block in encoding layer followed by one upsampling and one parallel block in decoding layer. All image slices from BRATS 2018 dataset are processed in the first parallel block of encoder layer. In this block, input slices are parallelly processed in four paths: hierarchy of three convolutional layers with 1 x 1 filters; hierarchy of three convolutional layers with 3x3 filters; hierarchy of three convolutional layers with 5x5 filters and hierarchy of three convolutional layers with 7x7 filters. The outcomes of four paths are cascaded to be processed in a convolution layer with 3x3 filters for extracting the aggregated feature map. These feature maps are then downsampled using max-pooling to perform dimensionality reduction. The reduced dimensions are again processed in parallel block to extract the downsampled features. These features have been processed in the hierarchy of unpooling and parallel block in decoding layer. Finally, softmax classification has been performed over the decoding layer outcome to segment complete, core and enhanced tumoral regions. The experimental results show higher segmentation results than the existing segmentation algorithms.

No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : COLD WATER BAG CHAIR

<p>(51) International classification :A47C0027080000, F25B0025000000, F25D0031000000, A47C0009000000, A47C0009020000</p> <p>(31) Priority Document No :NA  (32) Priority Date :NA  (33) Name of priority country :NA  (86) International Application No :NA  Filing Date :NA  (87) International Publication No :NA  (61) Patent of Addition to Application Number :NA  Filing Date :NA  (62) Divisional to Application Number :NA  Filing Date :NA</p>	<p>(71)Name of Applicant :  1) AJIN S  Address of Applicant : 45 C PAREPARAMPIL(H), MUTTAR, ALAPPUZHA, KERALA, INDIA, 689574. Kerala India  2)JITHIN THOMAS  3)JEFFIN JAMES  4)RON ROY  5)AKHIL BABY  6)BILWIN BENNY  7)SARANGH GOPAN  8)SREEKUTTAN K  9)AJIN K  10)MIDHUN C M  11)RICHU JACOB REJI  12)NEHIL SABU  13)SHLJO VARGHESE  14)PRANAVU PRADEEPKUMAR  15)LUKOSE V MATHEW  16)YASEEN MOHAMMED  17)SOORAJ  18)MUHAMMED FAZIL  19)SIDHARTH M S  20)SACHIN GOPAKUMAR  21)KEVIN VARGHESE ABRAHAM  22)SUBIN VARGHESE  23)JOHN VARGHESE  24)SARATH S PILLAI  25)JOEL MANI  26)GOKUL SOMAN  27)SIRAJ MOHAMMED H  28)PRIVIN P NAVANEETHA KRISHNAN  29)PRATHEEK M NAIR</p> <p>(72)Name of Inventor :  1) AJIN S  2)JITHIN THOMAS  3)JEFFIN JAMES  4)RON ROY  5)AKHIL BABY  6)BILWIN BENNY  7)SARANGH GOPAN  8)SREEKUTTAN K  9)AJIN K  10)MIDHUN C M  11)RICHU JACOB REJI  12)NEHIL SABU  13)SHLJO VARGHESE  14)PRANAVU PRADEEPKUMAR  15)LUKOSE V MATHEW  16)YASEEN MOHAMMED  17)SOORAJ  18)MUHAMMED FAZIL  19)SIDHARTH M S  20)SACHIN GOPAKUMAR  21)KEVIN VARGHESE ABRAHAM  22)SUBIN VARGHESE  23)JOHN VARGHESE  24)SARATH S PILLAI  25)JOEL MANI  26)GOKUL SOMAN  27)SIRAJ MOHAMMED H  28)PRIVIN P NAVANEETHA KRISHNAN  29)PRATHEEK M NAIR</p>
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(57) Abstract :  
A cold water bag chair is proposed in this work. This chair consists of an ordinary refrigeration system and a water filled bag as its seat. During sunny days, for better human comforts, we can use this chair as it provides a cold feel to human whoever sit on it. Heat inside the water filled bag seats is taken out by an evaporator of the refrigeration circuit in order to cool water inside the bag chair.

No. of Pages : 13 No. of Claims : 1



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025624 A

(19) INDIA

(22) Date of filing of Application :09/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : COMMUNICATION THROUGH SOIL USING MAGNETIC INDUCTION ON AGRICULTURAL FIELDS

(51) International classification	:H04W0084180000, H04W0004380000, G01N0033240000, G08C0019000000, H04W0004700000	(71) <b>Name of Applicant :</b> <b>1)Ms. BANUSELVASARASWATHY B</b> Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI KRISHNA COLLEGE OF TECHNOLOGY, KOVAIPUDUR, COIMBATORE - 641042. Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr. K. SRINIVASAN</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1) Ms. BANUSELVASARASWATHY B</b>
(86) International Application No	:NA	<b>2)Mr. ATHEESSH B</b>
Filing Date	:NA	<b>3)Mr. HARI HARA SUDHAN M S K</b>
(87) International Publication No	: NA	<b>4)Mr. ESWAR G</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In Wireless Underground Sensor Networks [WUSN] the sensors are positioned under the ground and communication between the sensors takes place through soil medium. The communication in underground is quite challenging to analyse compared to the traditional wireless sensor networks which utilize air as transmission medium. The conventional system in agricultural filed used Wireless Sensor Network (WSN) to sense and transmits the collected environmental condition and soil data to the server with air as transmission medium. The proposed methodology incorporates magnetic induction for data transmission to minimize communication latency and enhance reliability. The communication between the sensor devices is established with the help of WUSN. The operation of data exchange in WUSN is performed is using the magnetic induction. It produces the electromotive force which propagates the electromagnetic wave between the sender and receiver. It also describes the pattern interconnected physical devices such as sensor, controller and actuators which utilizes the connectivity to perform the data transmission. The performance evaluation shows that the proposed method achieves the significant performance compare to the existing methodologies in WSN.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025994 A

(19) INDIA

(22) Date of filing of Application :11/06/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN AUTOMATIC BILLING SYSTEM FOR VEGETABLES AND FRUITS STORE USING IMAGE PROCESSING

(51) International classification	:G06Q0040060000, G06Q0030060000, G06Q0030040000, H04M0015000000, G06N0003040000	(71) <b>Name of Applicant :</b> <b>1) Dr.R. KAMALRAJ</b> Address of Applicant : ASSOCIATE PROFESSOR/SCHOOL OF CS & IT, JAIN UNIVERSIITY, BANGALORE, KARNATAKA, INDIA, 560069 Karnataka India
(31) Priority Document No	:NA	<b>2)Dr. J V N LAKSHMI</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)Dr.R. KAMALRAJ</b>
(86) International Application No	:NA	<b>2)Dr. J V N LAKSHMI</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Smart Billing System for Vegetables and/or Fruits store is much required nowadays because the barcode cannot be used on them due to their short life span. Due to that the salesman in the billing - section may have a problem entering the bill amount manually by selecting the fruit name from the list and enter the weight of the corresponding item. And some moments it is a time-consuming activity. That can be overcome by the proposed model from 'Deep Learning' technique. It works based on CNN model to trace the item such as Vegetable or Fruits then Seven Segment Display number detection model is used to detect the weight of the item from the same input-image. Through that the price of the item can be calculated by referring the database list and then it will be computed according to the required weight of item. This model can reduce the investment cost on preferring hardware oriented smart billing system. So, it is cost and time effective one to fulfil the expected results in the problem domain.

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : SECURE COMPUTING TECHNIQUES FOR PREVENTING AND DETECTING LEAKAGE OF DATA

(51) International classification	:H04L0029060000, G06F0016330000, G06F0040289000, G06F0021000000, G06Q0010000000	(71) <b>Name of Applicant :</b> <b>1)Dr. S. SUMATHY</b> Address of Applicant :SME, iNURTURE EDUCATIONAL SOLUTION, BANGALORE, KARNATAKA, INDIA, 560052 Karnataka India
(31) Priority Document No	:NA	<b>2)DR. SHUBHRA BANERJI</b>
(32) Priority Date	:NA	<b>3)DR. A. RENGARAJAN</b>
(33) Name of priority country	:NA	<b>4)DR. A. RAJESH</b>
(86) International Application No	:NA	<b>5)Mrs. R. BABY CHITHRA</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1) Dr. S. SUMATHY</b>
(61) Patent of Addition to Application Number	:NA	<b>2)DR. SHUBHRA BANERJI</b>
Filing Date	:NA	<b>3)DR. A. RENGARAJAN</b>
(62) Divisional to Application Number	:NA	<b>4)DR. A. RAJESH</b>
Filing Date	:NA	<b>5)Mrs. R. BABY CHITHRA</b>

## (57) Abstract :

Information is a significant resource for an effort. Information should be kept against disaster and harm. In IT field enormous measure of information is being traded among different gatherings at each second. During information sharing, an extraordinary likelihood of information weakness, break or variety exists. Alongside information accessibility and availability information security is additionally vital. The term Data spillage is communicated as the inadvertent or accidental portion of classified or touchy information to a not allowed outsider. This paper centers on the information spillage idea, DLD modules and procedures to recognize information spillage. Water checking strategy is utilized to deal with the information spillage and thus causes information adjustment. Wholesaler can claim his privileges over the information if this changed watermark duplicate of information exists at some not allowed area Various Data assignment methodologies are being used to beat hindrances for utilizing watermark; these procedures improve the likelihood of recognizing liable gatherings. The blameworthy agent(s) is an individual or a gathering of pernicious clients who cause information break. The DLP arrangement isn't just for the huge associations and for specific industry area like banking and money however it is a requirement for little associations and different fields of business (Health care, avionics, counseling and so on) because of different Laws and Regulatory necessity by various nations. These outcomes in genuine results and the information can be spilled in different spilling channels. So the examination and alleviation of these downsides utilizing compelling component is significant. The information spillage discovery industry is heterogeneous as it developed out of ready product offerings of driving IT security merchants. An expansive stockpile of empowering advances like firewalls, encryption, access control, personality the board, AI content/setting based finders and others have effectively been consolidated to bring to the table assurance against different aspects of the information spillage danger. The cutthroat advantages of building up an all inclusive resource, silver slug information spillage identification suite is primarily in working with viable arrangement of the previously mentioned empowering advances to give the most significant level of assurance by guaranteeing an ideal attack of explicit information spillage discovery advances with the danger scene they work in. This scene is described by kinds of spillage channels, information states, clients, and IT stages.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202144023217 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR FORMING BUMP ELECTRODE SUBSTRATE

(51) International classification	:H01L0023000000, H05K0003340000, B23K0001000000, B23K0001200000, C22C0012000000	(71) <b>Name of Applicant :</b> <b>1)SENJU METAL INDUSTRY CO., LTD.</b> Address of Applicant :23, Senju-hashido-cho, Adachi-ku, Tokyo 120-8555, Japan Japan
(31) Priority Document No	:2020-100616	(72) <b>Name of Inventor :</b>
(32) Priority Date	:10/06/2020	<b>1)HATTORI, Takahiro</b>
(33) Name of priority country	:Japan	<b>2)SUDO, Hiroki</b>
(86) International Application No	:NA	<b>3)OKADA, Hiroshi</b>
Filing Date	:NA	<b>4)SOUMA, Daisuke</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method includes the steps of: applying a first flux (16) onto an electrode (14) provided on a substrate (10) and placing a solder material (18A, 18B) on the electrode (14); heating the substrate (10) to form a solder bump (20) on the electrode (14); deforming the solder bump (20) to provide a flat surface (20a) or a depressed portion (20b) on the solder bump (20); applying a second flux (22) to the solder bump (20); placing a core material (24) on the solder bump (20), the core material (24) including a core portion (24a) and a solder layer (24c) that covers a surface of the core portion (24a); and heating the substrate (10) to join the core material (24) to the electrode (14) by the solder bump (20) and the solder layer (24c).

No. of Pages : 42 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024974 A

(19) INDIA

(22) Date of filing of Application :14/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : A HANDHELD DEVICE FOR BACTERIAL AND VIRAL INFECTION DETECTION USING X-RAY AND CT IMAGES

(51) International classification	:A61B0006000000, G01N0033569000, C07K0014725000, C07K0016240000, C07D0405040000	(71) <b>Name of Applicant :</b> <b>1)Sandeep Raj</b> Address of Applicant :Department of Electronics and Communication Engineering, IIIT Bhagalpur, BCE Campus, Sabour, Bhagalpur 813210, Bihar, India. Bihar India <b>2)Arvind Choubey</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sandeep Raj</b>
(33) Name of priority country	:NA	<b>2)Arvind Choubey</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to a device implementing a method capable of automatically detecting the bacterial & viral infections using the chest X-rays/CT scan images. The device is integrated with features such as battery operated, handheld, secure and a wireless enabled solution. The method filters and enhances the input X-rays/CT images to highlight the findings. The enhanced input chest X-ray/CT images are used to extract the lungs. The extracted lungs alongwith the radiological findings are used to train the software to classify into normal and abnormal categories using residual neural network model. The information gathered is transferred through the transfer learning approach for classification of chest abnormalities into bacterial and viral infections using support vector machines, decision trees, artificial neural networks, convolutional neural networks and etc. The handheld device displays the output on the liquid crystal display screen as well as in form of report (both in .pdf copy and messages). The device can be employed to screen subjects in mass scale and a decision support for clinicians to enhance the healthcare.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024977 A

(19) INDIA

(22) Date of filing of Application :14/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN INTELLIGENT COUGH AND SPEECH SENSING WITH VISUAL MONITOR-ING DEVICE AND METHOD FOR DIAGNOSING DIFFERENT RESPIRATORY DISEAS-ES

(51) International classification	:G08B0015000000, G10L0025660000, H04N0007180000, A61B0007040000, G16H0050800000	(71) <b>Name of Applicant :</b> <b>1)ANNESYA BANERJEE</b> Address of Applicant :ANNESYA BANERJEE 107/3/3/2, Sekh Para Lane, P.O. Santragachi, Howrah-711104, West Bengal, India. Email: banerjee.annesya1999@gmail.com, Contact: 9231662124 West Bengal India <b>2)ACHAL NILHANI</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ANNESYA BANERJEE</b>
(33) Name of priority country	:NA	<b>2)ACHAL NILHANI</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a low-power consuming, fully automatic, portable cough de-tection and nature identification system that can locate, track the coughing person(s) amidst large gathering both indoor, outdoor and simultaneously analyses the nature of cough to iden-tify the underlying disease. The present non-contact device comprises of array of Acoustic Sensors (M1-M8) and Image Sensor for audio-visual data acquisition and is equipped with a Processing Unit that works as a brain of this intelligent surveillance system. The said Acous-tic sensors, distributed in the form of circular array acquire the audio data from surrounding environment whereas the Image Sensor is used for capturing image of the detected coughing person. Acquired cough data is fed through a Multi-layer Fully Connected recurrent Deep Neural Network (FC DNN1, 2) model where further analysis is processed. The complete computational result in the form of image of coughing person and the underlying cause is communicated wirelessly with the authorized user of this device. The Alarm system of the preferred embodiment alerts about presence of infected person even from 10-15 feet away.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131020983 A

(19) INDIA

(22) Date of filing of Application :09/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A NOVEL METHOD OF PREPARATION OF COOPERATIVE CO-ASSEMBLY

(51) International classification	:C12N0015100000, G03G0009097000, C12Q0001680600, A61K0009000000, B01D0015380000	(71) <b>Name of Applicant :</b> <b>1)Prantae Solutions Private Limited(OPC)</b> Address of Applicant :N3/232, IRC Village Bhubaneswar, Odisha India 751015 West Bengal India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Sumona Karjee Mishra</b>
(33) Name of priority country	:NA	<b>2)Dr. Aseem Mishra</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to novel and efficient method of polynucleotide extraction, isolation and/or purification from biological samples and/or complex solution and/or mixtures. The present method the polynucleotide is co-assembled with the silica coated magnetic particles through cooperative inter-molecular association resulting in rapid and efficient polynucleotide extraction, isolation and/or purification from the source. The polynucleotide in the aqueous solution is treated with silica coated magnetic nanoparticles in dehydrating solution. The method of extraction, isolation and/or purification of polynucleotide from biological samples, complex solution and mixtures increases the surface area to volume ratio of silica on magnetic nanoparticles results increase in polynucleotide binding efficiency per particle thus resulting use of less particle per extraction.

No. of Pages : 34 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131022305 A

(19) INDIA

(22) Date of filing of Application :18/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR THE RECOVERY OF SULPHUR OXIDES IN SULPHURIC ACID PRODUCTION USING AMMONIA VAPOUR AND USE OF THE PRODUCED AMMONIUM SULPHATE SOLUTION IN DIAMMONIUM PHOSPHATE PRODUCTION

(51) International classification	:C05B0007000000, C01B0017600000, B01D0053500000, C05B0011080000, C01B0017033000	(71) <b>Name of Applicant :</b> <b>1)Indorama India Private Limited</b> Address of Applicant :Ecocentre, EM-4, 12th Floor, Unit No. ECSL 1201, Sector V, Salt Lake, Kolkata 700091, West Bengal, India West Bengal India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)S.G Choudhary</b>
(33) Name of priority country	:NA	<b>2)Harihar Datta</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process and system for recovery of sulphur oxides and production of ammonium sulphate using ammonia vapour in a closed loop system, said process comprising the steps of (a) vaporising liquid ammonia at a phosphatic fertilizer plant using a steam vaporiser; (b) transferring the ammonia vapour generated at the phosphatic fertilizer plant to a sulphuric acid plant; (c) injecting the ammonia vapour into an SO<sub>x</sub> scrubber system at the sulphuric acid plant wherein the ammonia vapour reacts with SO<sub>x</sub> in the SO<sub>x</sub> scrubber system to produce ammonium sulphate, sulphur oxides and other tail gases; and (e) transferring the ammonium sulphate to the phosphatic fertilizer plant for nitrogen balancing and for use as a fertilizer in the phosphatic fertilizer.

No. of Pages : 18 No. of Claims : 10



(54) Title of the invention : A NOVEL ELECTRO ACUPUNCTURE DEVICE FOR COVID TREATMENT

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61H0039000000, A61H0039080000, A61N0001360000, A61N0005060000, A61N0005067000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)DR.MAYURI A.MEHTA</b> Address of Applicant :HATAMALA, PO-BANDALO, VIA TIGIRIA, DIST-CUTTACK, ODISHA, PIN-759030 Orissa India</p> <p><b>2)PROF.ANURADHA JAIN</b></p> <p><b>3)DR.PREETI G.DHARMIK</b></p> <p><b>4)DR.KRISHNA KUMAR SINGH</b></p> <p><b>5)PROF.DHEERAJ KUMAR SINGH</b></p> <p><b>6)PROF.VIVEK CHETANBHAI JOSHI</b></p> <p><b>7)BIRENDRA KUMAR SARASWAT</b></p> <p><b>8)DR.SURABHI SINGH</b></p> <p><b>9)DR.VIJAY KUMAR SAMYAL</b></p> <p><b>10)PROF.RACHANA OZA</b></p> <p><b>11)DR.NITASHA SONI</b></p> <p><b>12)DR.P KARTHIGEYAN</b></p> <p>(72)Name of Inventor :</p> <p><b>1)DR.MAYURI A.MEHTA</b></p> <p><b>2)PROF.ANURADHA JAIN</b></p> <p><b>3)DR.PREETI G.DHARMIK</b></p> <p><b>4)DR.KRISHNA KUMAR SINGH</b></p> <p><b>5)PROF.DHEERAJ KUMAR SINGH</b></p> <p><b>6)PROF.VIVEK CHETANBHAI JOSHI</b></p> <p><b>7)BIRENDRA KUMAR SARASWAT</b></p> <p><b>8)DR.SURABHI SINGH</b></p> <p><b>9)DR.VIJAY KUMAR SAMYAL</b></p> <p><b>10)PROF.RACHANA OZA</b></p> <p><b>11)DR.NITASHA SONI</b></p> <p><b>12)DR.P KARTHIGEYAN</b></p>
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(57) Abstract :

The goal of acupressure is to encourage the movement of qi (life energy) through the 14 channels (meridians) inside the body. The main challenge for a COVID19 patient is the fact that the oxygen percentage in the patient's blood get reduced due to attack of corona virus in the lungs of the patient. There are three pressure points on the hand and forearm that can be used to boost immunity which can be used to protect a person from Covid-19. Comprising of An air pump, A rechargeable battery, A vibrator, Three metallic cones, An electric plugin socket and wires. The battery can be charged for emergency purposes . The device is worn and switched on, the air pump pumps air into it and the glove inflatesThe three metallic cones are positioned near our three acupuncture points and As the glove inflates, the three metallic cones apply pressure on the acupuncture points,thus relieving the person of COVID19 distress. It's also experimentally verified fact that proper application of acupressure can also help the patient to increase oxygen percentage in the blood. Thus, in this invention a device is made that can be used for the purpose of acupressure for COVID 19 patient. It is a battery driven device that can automatically apply pressure on those three main pressure points in the patient's hand and forearm to help the patient not only in increasing oxygen percentage in the blood but also to increase immunity of the patient so that the patient can get a quick recovery from COVID19. The device is also having a component that can continuously monitor the oxygen percentage level in the blood of the patient.

No. of Pages : 7 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131022799 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SOLVENT-FREE AND ECONOMIC PROCESS FOR THE SYNTHESIS OF WATER SOLUBLE FERRIC DERISOMALTOSE

(51) International classification	:A61M0001280000, A61P0007080000, B01J0021180000, C07C0209680000, C07H0013060000	(71) <b>Name of Applicant :</b> <b>1)WEST BENGAL CHEMICAL INDUSTRIES LTD</b> Address of Applicant :145/1, Jessore Road Lake Town Kolkata West Bengal India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SUNIL, Kumar Agarwal</b>
(33) Name of priority country	:NA	<b>2)SUJIT, Das Adhikari</b>
(86) International Application No	:NA	<b>3)S, Prabhu</b>
Filing Date	:NA	<b>4)A VIJIT, Sehanobish</b>
(87) International Publication No	: NA	<b>5)SAUNAK, Sarbajna</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a process for synthesis of solvent free water soluble Ferric derisomaltose which is free of toxic impurities. The process includes use of in situ preparation of modified dextran which is free of low molecular weight carbohydrate and have molecular weight in range of 850 Dalton-1800 Dalton. The Ferric derisomaltose obtained by the process readily soluble in water and was dark brown, non-transparent aqueous solution with pH 5.0-7.0, containing ferric derisomaltose which was used for preparation of parenteral compositions. By dissolving in water for injections and filled into glass vials. Each 1 mL of solution contains 100 mg of elemental iron as ferric derisomaltose in water for injection.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : AN AUTONOMOUS FLOOR CLEANING ROBOT DEEMED TO BE UNIVERSITY, AN INSTITUTE OF EMINENCE,

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:A47L0011400000, G05D0001020000, A47L0009280000, A47L0011280000, B63B0059100000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. ANISH PANDEY</b> Address of Applicant :School of Mechanical Engineering, Campus-8 Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, An Institute of Eminence, Bhubaneswar-751024, India Orissa India</p> <p><b>2)Dr. ASHWANI KUMAR</b></p> <p><b>3)Dr. RUBY MISHRA</b></p> <p><b>4)Mr. SURJEET SINGH</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Anish Pandey</b></p> <p><b>2)Dr. Pankaj Charan Jena</b></p> <p><b>3)Mr. Surjeet Singh</b></p> <p><b>4)Dr. Ashwani Kumar</b></p> <p><b>5)Dr. Ruby Mishra</b></p> <p><b>6)Dr. Dayal R. Parhi</b></p> <p><b>7)Mr. Abhishek Kumar Kashyap</b></p> <p><b>8)Mr. Prince Kumar</b></p>
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(57) Abstract :

**ABSTRACT AN AUTONOMOUS FLOOR CLEANING ROBOT** An autonomous floor cleaning robot(1) is disclosed that comprises, a chassis, a locomotion system, a dry cleaning unit(4), a wet cleaning unit(5), a hot air drier(6). The chassis(2) comprises a circular base plate(21); power system(22), on board electronics(23), sensors(24), micro controller(25), motor drivers(26) and a casing(27). The locomotion system(3) is mounted below the base plate(21), comprises a caster wheel(31) and two independently driven powered wheels(32a, 32b). Waste particles and dusts are accumulated onto the central portion below the base plate by sweeping action of rectangular broom belts(41a, 41b), which are subsequently sucked in to a collection box(45) by vacuum action. The wet cleaning unit(5) consist of rectangular mopping belts(51,52,53) that are fed water by dripping action. The rectangular belts(41a,41b, 51, 52,53) remain parallel to the floor surface, thereby providing maximum contact area when compared with roller type cleaning heads which provide line contact. Moreover the belt tension due to being driven by a motor contributes to contact pressure, thereby increasing the efficiency of cleaning. The said robot(1) further comprises a hot air drier(6) after the wet cleaning unit(5). The robot(1) is capable of environmental mapping, determining a path and navigating along determined path while dynamic obstacle detection and avoidance during operation. At the end of operation the said autonomous floor cleaning robot(1) renders a clean and dry floor without any human intervention without any extra waiting time post the cleaning operation.

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131023395 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVICE FOR PEELING AND SLICING OF PINEAPPLE

(51) International classification	:A47J0025000000, A23N0004200000, A47J0017020000, B26D0007010000, A47J0017040000	(71) <b>Name of Applicant :</b> <b>1)Tanmoy Bose</b> Address of Applicant :Bijni Complex, Laitumkhrach, Shillong- 793003, Meghalaya, India Meghalaya India <b>2)(2) National Institute of Technology, Meghalaya</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Tanmoy Bose</b>
(33) Name of priority country	:NA	<b>2)(2) Shimon Nongrum Shullai</b>
(86) International Application No	:NA	<b>3)(3) Manish Kumar</b>
Filing Date	:NA	<b>4)(4) Vikash Kumar</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure describes a pineapple peeler cum slicer device (100), wherein the device includes a centre rod (6) attached to a blade (8) along with an adjustable blade (9), a sleeve (2), a handle (1), a collar (3) and atleast one foldable slicer blade (5) attached to the sleeve (2). The tip of the centre rod (6) has a plurality of serrations (10) wherein the centre rod (6) is placed on the core of the pineapple and rotated in clockwise direction. Moreover, the device includes a helical blade (7) configured to guide the cut out part of the pineapple pulp into helical shape thereby pulling the pulp out and removing the peel of the pineapple. The slicer blade (5) being projected out through a collar (3) is pushed for slicing of the pineapple pulp with the inedible core being removed by the sleeve (2).

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131023430 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INTELLIGENT SYSTEM FOR MONITORING OF COVID-19 MORBIDITY USING ARTIFICIAL INTELLIGENCE

(51) International classification	:A61K0039000000, A61L0027540000, G06Q0050180000, G16H0050300000, G06N0003080000	(71)Name of Applicant : <b>1)Prof. (Dr.) Bhagirathi Nayak</b> Address of Applicant :Professor, Faculty of Management Studies, Sri Sri University, Cuttack, Odisha, India Orissa India <b>2)Prof. Gogari Pankaj Kalyanji</b> <b>3)Dr. B Gomathy</b> <b>4)D.Seenivasan</b> <b>5)C.Rukumanikhandhan</b> <b>6)Dr.P.Kanagaraju</b> <b>7)S.Rajkumar</b> <b>8)Dr.Amol Baban Ubale</b> <b>9)Namrata Choudhary</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Prof. (Dr.) Bhagirathi Nayak</b> <b>2)Prof. Gogari Pankaj Kalyanji</b> <b>3)Dr. B Gomathy</b> <b>4)D.Seenivasan</b> <b>5)C.Rukumanikhandhan</b> <b>6)Dr.P.Kanagaraju</b> <b>7)S.Rajkumar</b> <b>8)Dr.Amol Baban Ubale</b> <b>9)Namrata Choudhary</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention relates to intelligent system for monitoring of covid-19 morbidity using artificial intelligence. The objective of the present invention is to solve the problems in the prior art technologies of morbidity analysis of covid-19.

No. of Pages : 28 No. of Claims : 5

(54) Title of the invention : METHOD FOR EFFECTIVE MEDICAL SUPPLY MANAGEMENT USING BLOCKCHAIN AND MACHINE LEARNING

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H04L0009320000, A61K0038000000, H04L0009060000, F21Y0115100000, G06N0020000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Bhupesh Deka</b> Address of Applicant :Associate Professor, HoD , MCA, Gandhi Institute for Technology, Gramadiha, Po: Gangapada, District: Khurda, Bhubaneswar, Orissa, 752054 Orissa India</p> <p><b>2)B Yugandhar</b></p> <p><b>3)Dr Raja Varma Pamba</b></p> <p><b>4)Madhumita Mahapatra</b></p> <p><b>5)Dr Vijay Kumar Sharma</b></p> <p><b>6)Priyanku Sharma</b></p> <p><b>7)Anuj Sharma</b></p> <p><b>8)Mrunalini U.Buradkar</b></p> <p><b>9)Rituparna Paul</b></p> <p><b>10)Lukram Dhanachandra Singh</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Bhupesh Deka</b></p> <p><b>2)B Yugandhar</b></p> <p><b>3)Dr Raja Varma Pamba</b></p> <p><b>4)Madhumita Mahapatra</b></p> <p><b>5)Dr Vijay Kumar Sharma</b></p> <p><b>6)Priyanku Sharma</b></p> <p><b>7)Anuj Sharma</b></p> <p><b>8)Mrunalini U.Buradkar</b></p> <p><b>9)Rituparna Paul</b></p> <p><b>10)Lukram Dhanachandra Singh</b></p>
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(57) Abstract :

Aspects of the present disclosure relate to a method (100) for effective supply management of medical supplies using blockchain and machine learning technologies. In times of pandemics and epidemics such as COVID-19, quick and effective response to the community's needs plays a crucial role in combatting the disease. The present method (100) for medical supply management allows effective coordination with regard to medical supplies between the State level and the Centre level, which is assisted by blockchain and machine learning technologies. The present method (100) for effective medical supply comprises of many steps such as, but not limited to, receiving a message for medical supply (104), evaluating the message (110), accepting a smart contract (112) and transmitting an authorization (114) using the plurality of computing system at various levels of the blockchain. (FIG. 1 will be the reference figure)

No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131023576 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AGRO FLY: A NOVEL INSECT DRONE FOR CROP MONITORING AND SURVEILLANCE

<p>(51) International classification :B64C0039020000, G08B0013196000, H04N0007180000, B64D0047080000, G05D0001100000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)DR.GAIKAR VILAS BHAU</b> Address of Applicant :HATAMALA,P.O- BANDALO,VIA TIGIRIA,DIST-CUTTACK, ODISHA, 759030 Orissa India <b>2)DR. CAROLEENA GANESH RANE</b> <b>3)SHASHI KANT GUPTA</b> <b>4)DR. GAGANDEEP KAUR</b> <b>5)DR.PURNENDU BIKASH ACHARJEE</b> <b>6)DR.MONOJ KUMAR MUCHAHARI</b> <b>7)MR.NABAJYOTI BORAH</b> <b>8)MR.RAJU MONI BORAH</b> <b>9)MS.MOUMITA ROY</b> <b>10)DR.JYOTISMITA TALUKDAR</b> <b>11)DR.ALEEM ALI</b> <b>12)FARAH JAMAL ANSARI</b> <b>13)DR.AARTI GAUTAM DINKER</b> <b>14)DR.VARSHA</b> <b>15)DR.K.CHITRA</b></p> <p>(72)Name of Inventor : <b>1)DR.GAIKAR VILAS BHAU</b> <b>2)DR. CAROLEENA GANESH RANE</b> <b>3)SHASHI KANT GUPTA</b> <b>4)DR. GAGANDEEP KAUR</b> <b>5)DR.PURNENDU BIKASH ACHARJEE</b> <b>6)DR.MONOJ KUMAR MUCHAHARI</b> <b>7)MR.NABAJYOTI BORAH</b> <b>8)MR.RAJU MONI BORAH</b> <b>9)MS.MOUMITA ROY</b> <b>10)DR.JYOTISMITA TALUKDAR</b> <b>11)DR.ALEEM ALI</b> <b>12)FARAH JAMAL ANSARI</b> <b>13)DR.AARTI GAUTAM DINKER</b> <b>14)DR.VARSHA</b> <b>15)DR.K.CHITRA</b></p>
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(57) Abstract :

ABSTRACT AGRO FLY: A Novel Insect Drone for Crop Monitoring and Surveillance Currently, 1/3rd of total Indian employment is based on agriculture. The agricultural industry is continuously working on its advancement by working on new equipment, schemes, approaches, and ideas. Besides this several challenges faced by the agriculture industry includes fluctuations in climate, a condensed amount of water supply for irrigation, supplementary production cost, and abridged manpower in farms. So, it's high time which our agriculture sector needed to be converted into an automatic process. The technologies through which the system can be automated are based on artificial intelligence, the Internet of things, and cloud computing. However, the accumulation of these technologies includes many challenges like rapid change in weather, yielding a crop is a real-time challenge, and continuous supervision, as well as monitoring, is required for agro parameters. Apart from all issues, the major concern is the COVID-19 pandemic intimidates the interruption in the production of food as well as deliverer systems. To deal with all the challenges of the agriculture industry insect size drone is developed which is based on swarm intelligence. Drone works for natural and artificial systems in an environment composed of many individuals that coordinate using decentralized control to perform a certain task or work towards a common goal in the presence of a coordinator. It is useful in soil health scans, monitor crop health, assist in planning irrigation schedules, apply fertilizers, estimate yield data and provide valuable data for weather analysis.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131023678 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A GRID CONDITION BASED IRRIGATION PUMP CONTROLLER FOR SOLARISED IRRIGATION PUMPS

(51) International classification	:A01G0025160000, A01G0027000000, G05D0022020000, A61M0003020000, G01N0027220000	(71) <b>Name of Applicant :</b> <b>1)Dr. Subhra Jyoti Sarkar</b> Address of Applicant :Matri Sadan, Netaji Subhash Pally, TejaTola, Katihar, Bihar, India. Pincode - 854105 Bihar India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Subhra Jyoti Sarkar</b>
(33) Name of priority country	:NA	<b>2)Dr. Palash Kumar Kundu</b>
(86) International Application No	:NA	<b>3)Mr. Sarat Kumar Sahoo</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract A grid condition based irrigation pump controller for solarised irrigation pumps The present invention is comprising at least a grid (1) voltage (2) and frequency (3) measuring arrangement, at least PV generation sensing output (11), at least multi position soil moisture sensing system (5), and at least a temperature measurement system (6) and humidity measurement system (7) to automate the operation of the irrigation pump (13) according to the water availability in the source (14) and soil moisture requirement. The water availability in the source (14) is checked by utilizing the conductive property of water. The output of low sensing circuit (25) will be different when water level falls below the certain limit and is predicted by the microcontroller (4). In case of water unavailability, motor will be turned OFF so as to avoid dry run of the pump (13). (Figure 1) PARAMITA SAHA Applicant™s Agent, Reg. no. IN/PA/2154

No. of Pages : 16 No. of Claims : 9



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131024062 A

(19) INDIA

(22) Date of filing of Application :30/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FIRST INFORMATION REPORT MANAGEMENT SYSTEM

(51) International classification	:H04L0029060000, H04L0009320000, H04W0004800000, G06Q0050260000, G06F0021320000	(71) <b>Name of Applicant :</b> <b>1)SURENDRA KUMAR NANDA</b> Address of Applicant :House No- 350, Word No- 14, Malpara Dist- Balangir, Odisha-767001, India Orissa India <b>2)Dr. ROJALINA PRIYADARSHINI</b> <b>3)RASMI RANJAN KHANSAMA</b> <b>4)Dr. SANTANU KUMAR DASH</b> <b>5)Dr. ASHOK KUMAR PATEL</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SOURAV MISHRA</b>
(33) Name of priority country	:NA	<b>2)BINIT KUMAR</b>
(86) International Application No	:NA	<b>3)SATYABRATA PAL</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT FIRST INFORMATION REPORT MANAGEMENT SYSTEM A First Information Report (FIR) management system (100), the system (100) comprising: an authentication module (302) configured to authenticate the user using a 2-factor verification by generating a one-time password (OTP) to the registered mobile number of the user when the face recognition data matches with predefined face recognition data stored in the database (116); a complaint lodging module (304) configured to enable the user to input a verbal description of the crime, wherein the verbal description of the crime comprises one of, date of the incidence, time of the incidence, place of the incidence, incident details, description of the person involved, real-time images and videos of the incident, complainant details, or a combination thereof; an output module (306) configured to display details about the case when the complaint is accepted by a Station House Officer (SHO) of a police station.

No. of Pages : 36 No. of Claims : 10

## Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911051195 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD TO COMMUNICATE CUSTOMIZED NOTIFICATIONS BASED ON MICRO-LOCATIONS OF A CUSTOMER INSIDE STORE

(51) International classification	:H04L0029080000, G06F0012140000, H04W0004800000, H04W0004021000, H04L0009080000	(71) <b>Name of Applicant :</b> <b>1)Bellboi Inc.</b> Address of Applicant :3031 Eden Avenue # 130 Cincinnati Ohio 45219 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Abhishek Pitti</b>
(33) Name of priority country	:NA	<b>2)Sanjay Bisen</b>
(86) International Application No	:NA	<b>3)Sushmita Sinha</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is a system and method for communicating customized notifications based on micro-locations of a customer inside a store. The method detects the presence of the customer by obtaining the identification code from the computing device of the customer through one or more detectors placed at the physical location of a store. The method includes the step of storing identification numbers corresponding to computing devices through a telecom server. The telecom server matches the identification code with the stored identification number to identify the customer. The method receives an object identification code from the telecom server and transmits a notification signal through a native server. The method receives the notification signal to transmit a command signal to a wireless module of the computing device through development tools. The method includes the step of forming a wireless network for detecting the computing device through wireless sensors. The native server communicates notifications to a native application integrated with the development tools, and messaging platform of the computing device. The most



No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : NON-DAIRY SYMBIOTIC BEVERAGE AND THE PROCESS

(51) International classification	:A23L0011000000, A23C0011100000, C12R0001245000, A23L0025000000, A23L0027600000	(71)Name of Applicant : <b>1)Reena Verma</b> Address of Applicant :ICG Campus, Gurukul Marg, SFS, Mansarovar, Jaipur Rajasthan India <b>2)Gargi Saxena</b> <b>3)IIS (Deemed to be University)</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Reena Verma</b>
(33) Name of priority country	:NA	<b>2)Gargi Saxena</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A non-dairy, cost effective, lactose free substitute can be produced from high protein legumes such as Chickpeas (*Cicerarietinum*) and Cowpea (*Vignaunguiculata*). This non-dairy substitute is produced by blanching 500gms of dry legumes in 2000ml of distilled water for 5-8 minutes at 80-100°C. The seeds are drained and then placed in 2000ml of distilled water and left to soak at 23±2°C for 12 hours with addition of citric acid 0.50% w/v. The legumes are blended with 1000-1200ml of distilled water and made into a legume slurry and then, filtered to remove insoluble fibre and suspended soluble fibre present in the legume slurry, producing a legume extract/ milk that can be used in a variety of products. In different examples, the legume milk is cultured with mono-cultures of lactobacillus casei, lactobacillus acidophilus and bifidobacterium bifidum. And, also with mixed cultures of lactobacillus casei & lactobacillus acidophilus and lactobacillus acidophilus and bifidobacterium bifidum. And, the milk is cultured for 24+12 hrs to have the bacterial count to 10<sup>5</sup> to 10<sup>8</sup>. Furthermore, two variations from each legume milk is made by adding a set of prebiotics as pectin, raw banana powder, almond powder and chicory root powder in the per cent range of 2 to 10 per cent w/v.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : REINFORCING STABILITY AND EFFICACY OF DACARBAZINE BY COCRYSTALLIZATION AND A PROCESS OF THAT COCRYSTALLIZATION

(51) International classification :A61K0031655000,  
A61K0009000000,  
A61K0031190000,  
A61K0045060000,  
A61K0009160000

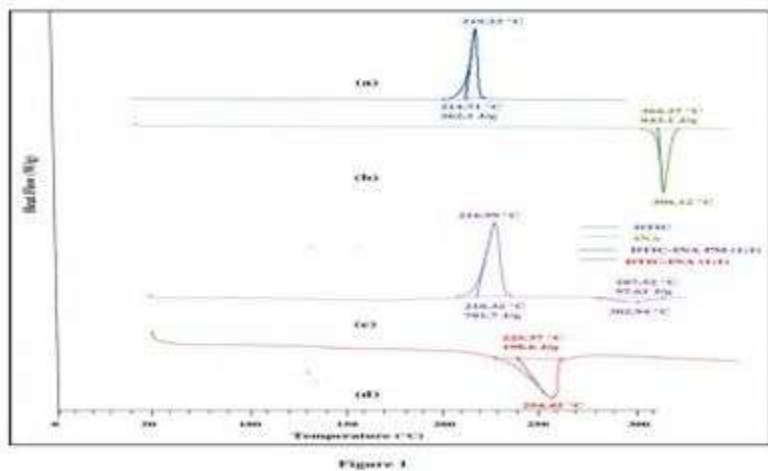
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :Panjab University, Sector 14,  
Chandigarh-160014, India Chandigarh India

(72)Name of Inventor :  
**1)CHADHA, Renu**  
**2)PANDIT, Divya**  
**3)GAUTAM, Manoj Kumar**  
**4)KARAN, Maninder**

(57) Abstract :

The present invention provides a multicomponent of an anticancer prodrug Dacarbazine with GRAS (Generally Regarded as Safe) isonicotinic acid (INA) which refines its stability dramatically with enhancement in efficacy. Further, the present invention relates to a process of preparation of the multicomponent of dacarbazine. The present invention indicates that the multicomponent of dacarbazine is a solid form that is a cocrystal. Dacarbazine cocrystal obtained herein shows efficient therapeutic activity at a much lower dose and thus overcomes the problems arising from the dose related side effects of the drug alone. Thus, the present invention provides a safe anticancer agent prepared by the process of cocrystallization.



No. of Pages : 27 No. of Claims : 11

(54) Title of the invention : SYSTEM AND METHOD FOR ADJUSTMENT OF VEHICLE SEAT FOR A CHILD SEAT FIXATION

(51) International classification	:B60N0002280000, B64D0011060000, B60N0002900000, B60R0021015000, G01C0021360000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546 Stuttgart Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Mr. Tejas Joshi</b> <b>2)Mr. Vikram Gupta</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system 100 and method for fixation of a child seat in a vehicle and monitoring a child occupant is disclosed. The system 100 and method are based on processors 102 to: receive input signals associated with attributes of a child seat to be fixed form a computing device 108; determine, a type of the child seat by comparing the received input signals with pre-stored data in a database 106; identify at least one passenger seat out of one or more passenger seats which is available and to which the child seat may be fixed; and generate an actuation signal based on a selected passenger seat. On receipt of the generated actuation signal, a control unit 112 adjusts the selected passenger seat to a predefined safe seat position out of the one or more predefined safe seat positions based on the determined type of the

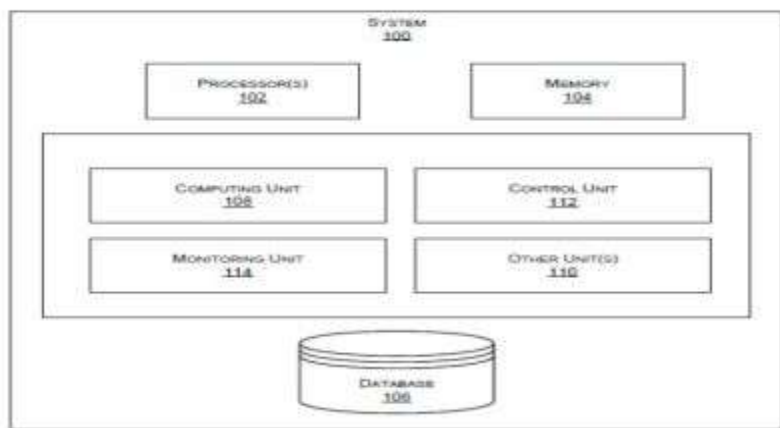


FIG-1

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : BRIDGE MONITORING DEVICE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H05B0033080000, B60W0010040000, G01G0019020000, G08B0023000000, G08G0001040000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)<b>Name of Applicant :</b>  <b>1)Chitkara Innovation Incubator Foundation</b>          Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India</p> <p>(72)<b>Name of Inventor :</b>  <b>1)RANI, Shalli</b>  <b>2)SHARMA, Bhisham</b>  <b>3)KOUNDAL, Deepika</b>  <b>4)AHUJA, Sachin</b>  <b>5)BAJAJ, Karan</b></p>
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(57) Abstract :

A bridge monitoring device is disclosed. The device comprises a set of sensors configured with a bridge to sense one or more attributes associated with a load of vehicles moving on the bridge, a control unit operatively coupled with a transceiver and the set of sensors. The control unit to monitor real-time load of moving vehicles based on sensed one or more attributes, and compare the monitored real-time load with a pre-defined or a configurable threshold load. Moreover, based on comparison when the monitored impact load is more than or equal to threshold impact load the control unit generates an alert signal.

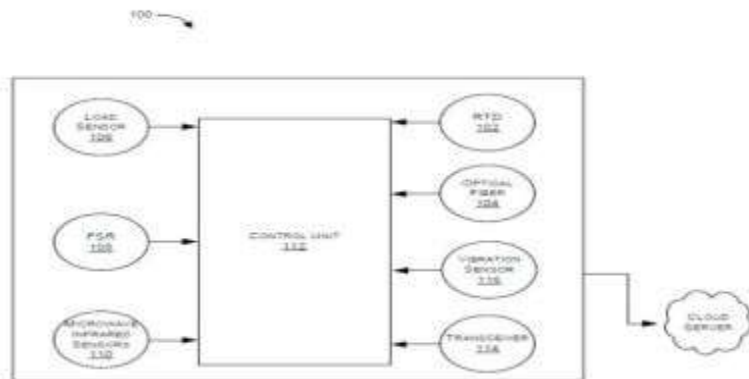


FIG. 1A

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : SELF DIAGNOSING WARNING SYSTEM FOR A VEHICLE

(51) International classification	:G08G0001160000, B60Q0005000000, H04R0007200000, H04R0031000000, H04R0001280000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546 Stuttgart Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Kartik Hanamasagar</b>
(33) Name of priority country	:NA	<b>2)Mr. Mrunal Chavan</b>
(86) International Application No	:NA	<b>3)Mr. Chetan Bedarekar</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosed warning system 200 for a vehicle includes a sound generation device 100 comprising a sound generation unit 150 having an array of speakers, each speaker of the speakers configured to generate a sound beam in a predefined direction, an assist unit 208 to detect a region of interest around the vehicle based on presence of objects in the vicinity of the vehicle, and identify a critical object out of the objects, and determine intensity and frequency of sound to be generated by the sound generation unit; and processor 202. The processors 202 are configured to actuate the sound generation unit 150 to generate sound in the direction of the identified critical object, and determine one or more attributes associated with status of the sound generation unit 150 based on a scanning of the speakers by the microphones 106 movably coupled with the sound generation unit 150.



No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : SELF DIAGNOSING WARNING SYSTEM FOR A VEHICLE

(51) International classification	:G08G0001160000, B60Q0005000000, B62J0003000000, H04R0003120000, H04S0007000000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546 Stuttgart Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Mr. Kartik Hanamasagar</b>
(32) Priority Date	:NA	<b>2)Mr. Mrunal Chavan</b>
(33) Name of priority country	:NA	<b>3)Mr. Chetan Bedarekar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A warning system 200 for a vehicle is disclosed, comprising a sound generation unit 150 having groups of directional speakers 102, each group of directional speakers 102 comprises one or more directional speakers 102 to generate sound beams in a predefined direction, an assist unit 208 to detect a region of interest around the vehicle based on presence of objects in the vicinity of the vehicle, and identify a critical object out of the objects, and determine intensity and frequency of sound to be generated by the sound generation unit 150; and processors 202. The processors 202 are configured to actuate the sound generation unit 150 to generate sound in the direction of the identified critical object, and determine one or more attributes associated with status of the sound generation unit 150 based on a scanning of the speakers 102 by microphones 106 coupled with the sound generation unit 150.

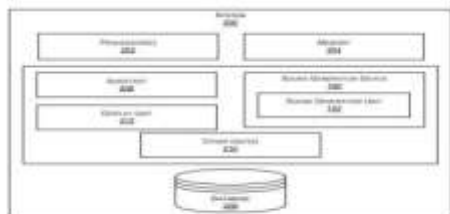


FIG. 2

No. of Pages : 27 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911051402 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

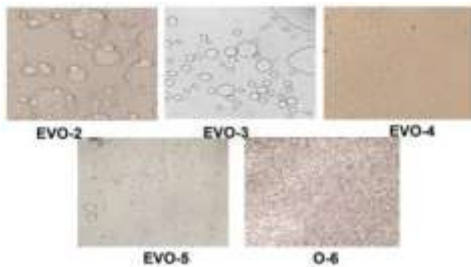
(43) Publication Date : 18/06/2021

(54) Title of the invention : AZELAIC ACID AND MELALEUCA ALTERNIFOLIA ESSENTIAL OIL CO-LOADED VESICULAR SYSTEM FOR TOPICAL ADMINISTRATION

(51) International classification	:A61K0009000000, A61K0036610000, A61K0009127000, A61Q0019000000, A61K0047240000	(71) <b>Name of Applicant :</b> <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN- 173229 (H.P) Himachal Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. POONAM NEGI</b>
(33) Name of priority country	:NA	<b>2)Dr. NAVNEET UPADHYAY</b>
(86) International Application No	:NA	<b>3)CHARUL RATHORE</b>
Filing Date	:NA	<b>4)ALPANA BISHT</b>
(87) International Publication No	: NA	<b>5)PROF. KAMAL DEV</b>
(61) Patent of Addition to Application Number	:NA	<b>6)PRAKRITI NIDHI</b>
Filing Date	:NA	<b>7)RAJAN ROLTA</b>
(62) Divisional to Application Number	:NA	<b>8)PROF. ANURADHA SOURIRAJAN</b>
Filing Date	:NA	

(57) Abstract :

This invention relates to the ethanolic vesicles and ethanolic vesicular hydrogel composition, comprising a therapeutically effective amount of azelaic acid and Melaleuca alternifolia essential oil for use in the treatment of acne vulgaris. AzA and TTO Ethanolic vesicles (EV) were developed for the topical delivery of acne vulgaris. EV was prepared employing solvent injection method. All the EV were characterised for particle size, size distribution and zeta potential. The EV hydrogel was found to be optimum with respect to rheological and textural attributes. The skin permeation and retention of AzA was significantly higher vis-a-vis marketed formulation. The antibacterial efficacy of EV and EV hydrogel was also superior in comparison to plain drug. Thus, the developed EV system could be promising drug delivery systems for the topical therapy of Acne vulgaris.



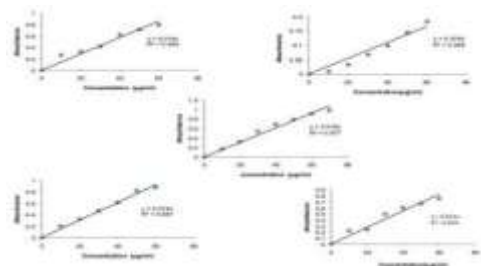
No. of Pages : 30 No. of Claims : 5

(54) Title of the invention : CHEBULINIC ACID FORMULATIONS FOR GASTRIC DELIVERY AND METHOD THEREOF

(51) International classification	:A61K0009140000, A61K0009000000, A61K0009160000, A61K0009510000, A61K0031192000	(71)Name of Applicant : <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN- 173229 (H.P) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MS. SURBHI GAUTAM</b>
(33) Name of priority country	:NA	<b>2)DR. UMA RANJAN LAL</b>
(86) International Application No	:NA	<b>3)DR. ADITI SHARMA</b>
Filing Date	:NA	<b>4)MS. CHARUL RATHORE</b>
(87) International Publication No	: NA	<b>5)DR. NAVNEET UPADHYAY</b>
(61) Patent of Addition to Application Number	:NA	<b>6)DR. KAISAR RAZA</b>
Filing Date	:NA	<b>7)DR POONAM NEGI</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

Terminalia chebula, a native of Indians common medicinal plant used in folkmedicine like Unani, Ayurveda and Homeopathy. It is also employed as co-ingredient in Ayurvedic formula named Triphala as detoxifying agent in gastrointestinal disorders, purgative in chronic constipation, and also helps in indigestion. Chebulinic acid (CA) is the stable hydrolysed product of T. chebula and can serve as a prodrug. It is also reported to have antiulcer activity. However CA has poor aqueous solubility which limits its application as an antiulcer drug. The objective of the current study is to increase the solubility of CA by formulating solid dispersion with Eudragit EPO and prolong the gastric residence time to treat gastric ulcers. The solid dispersion of CA and Eudragit EPO were prepared by solvent evaporation method at different ratios to improve the solubility and dissolution. The optimum ratio of CA and Eudragit EPO was incorporated into sodium alginate based floating raft forming system. The floating ability of sodium alginate raft was then evaluated by determining viscosity, density, floating lag time and percent cumulative drug release (%CDR). The antiulcer efficacy of CA floating systems was also evaluated in the alcohol-induced gastric ulcer model in Sprague Dawley rats. CA solid dispersions demonstrated much higher solubility vis-a-vis their corresponding physical mixtures and CA in 0.1N HCl (Figure 1A). The release of CA in dissolution medium was less than 40% within 2 hr whereas solid dispersion ratio 1:5 showed 95.45% drug release. All the developed floating raft systems had floating lag time of less than 8 seconds, duration of floating of more than 24 hrs, density less than 1 g/mL with more than 80% of sustained drug release in 8 h. Further, the CA gastroretentive formulation showed a superior curative effect on the gastric ulcers in terms of the ulcer index than the standard drug omeprazole and CA suspension. These studies have illustrated the potential use of a novel raft floating systems for a stomach-specific delivery of a poorly water soluble compound such as CA.



No. of Pages : 28 No. of Claims : 5

(54) Title of the invention : A SEMI-AUTOMATIC SYSTEM FOR DIAMOND FACETING OF WATCH HANDS

(51) International classification :B24B0009160000,  
A44C0017000000,  
B01J0003060000,  
B28D0001040000,  
C30B0029040000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Address of Applicant :KAMLA CENTRE, SCO 88-89,  
SECTOR-8, MADHYA MARG, CHANDIGARH-160018,  
INDIA Chandigarh India  
(72)**Name of Inventor :**  
**1)MR. GOLLAPURAM JAYASIMHA**

(57) Abstract :

The present invention relates to a diamond cutting system and method for diamond cutting of watch hands in strip. The present invention relates to a semi-automatic diamond faceting system/ device is used for cutting one to three faces maximum. The semi-automatic diamond faceting system/ device is used for cutting one to three faces maximum. The functioning of machine is automatic thus the operator has to feed the fixture plate containing watch hands during each cycle.

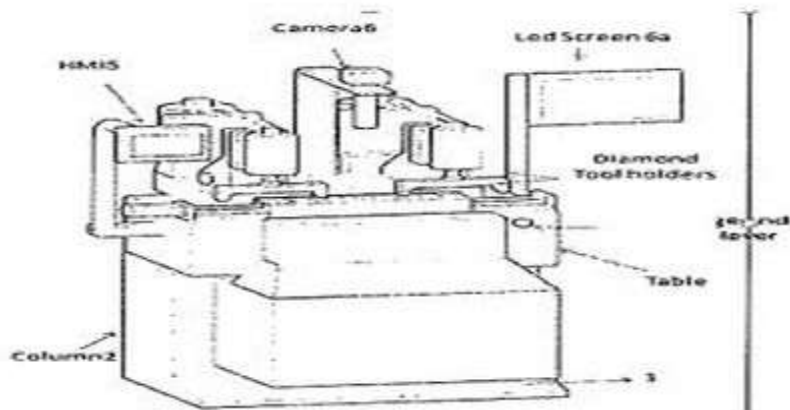


Figure 1

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : MULTI-FACETING AND MULTI-FINISHING OF WATCH HANDS IN STRIPS

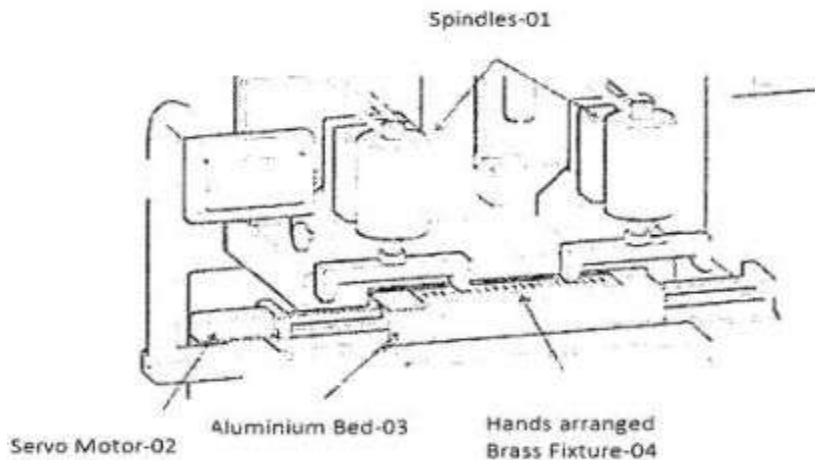
(51) International classification :G04G0009000000,  
G04D0003000000,  
G04B0019040000,  
C25D0017000000,  
G04D0001060000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Address of Applicant :KAMLA CENTRE, SCO 88-89,  
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INDIA Chandigarh India  
(72)**Name of Inventor :**  
**1)MR. GOLLAPURAM JAYASIMHA**

(57) Abstract :

The present invention relates to a system for, multi-faceting and multi-finishing of watch hands in strips. Multi-finishing of watch hands converts the multi-faceted watch hands surface to different texture by electro plating, lacquer, sand blasting or by a metal brush.



No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : LOCKING MECHANISM FOR INTER-AXLE DIFFERENTIAL CASE

(51) International classification :B60K0017360000,  
C23C0014080000,  
F04B0053160000,  
H04L0012280000,  
A01G0009020000

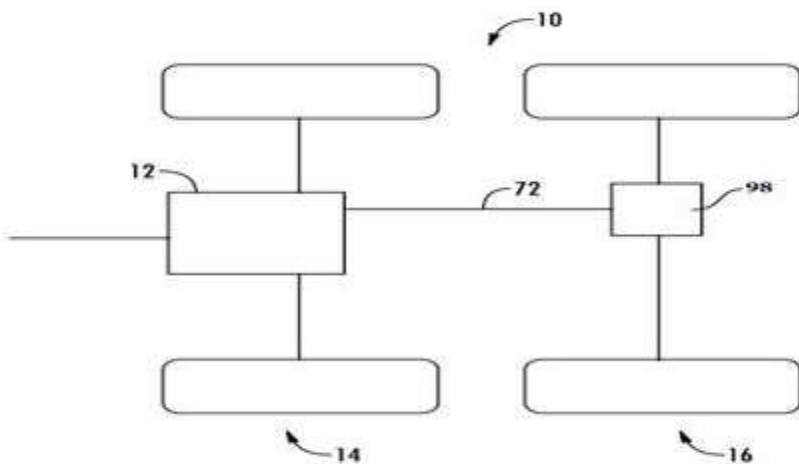
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)DANA HEAVY VEHICLE SYSTEMS GROUP, LLC.**  
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United States of America U.S.A.

(72)**Name of Inventor :**  
**1)NARGIDE, Sandeep G.**  
**2)KADAM, Vijay D.**  
**3)ANDRES, Gregory R.**  
**4)REICHERT, Jared T.**

(57) Abstract :

An inter-axle differential (IAD) assembly including a unitary IAD case having one or more spaced-apart apertures extending therethrough, wherein each of the IAD case apertures defines a groove, and a spider having a plurality of radially, outwardly extending legs, wherein one or more of the legs include an opening at an outward end thereof, and wherein each IAD case apertures are aligned with each of the leg openings. The IAD assembly further includes a locking mechanism having one or more first fasteners, wherein the fasteners are selectively inserted through the IAD case apertures and into the one or more leg openings and/or into the grooves of the IAD case apertures.



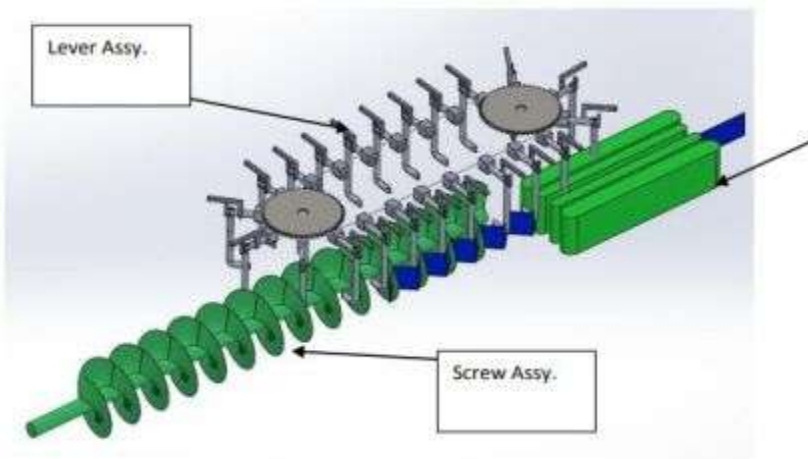
No. of Pages : 25 No. of Claims : 15

(54) Title of the invention : POUCH FOLDING MACHINE

(51) International classification	:B65B0043120000, B65B0009080000, B65D0077060000, B65B0063040000, B31B0070860000	(71) <b>Name of Applicant :</b> <b>1)Samarpal Jawla</b> Address of Applicant :Plot No.51/A, Gali No.1, Sarupur Indl. Area, Sohna Road, Ballabgarh, Faridabad-121004 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Samarpal Jawla</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus for stacking pouches advanced thereto in at least one coherent row forming a bag web of indeterminate length, comprises an advancing arrangement for feeding the bag web vertically downwardly; an orienting arrangement for imparting a back-and-forth oscillating motion on the downwardly advancing bag web; a collecting arrangement situated below the orienting arrangement in the path of the bag web for receiving the bag web in zigzag-folded layers; and a synchronizing arrangement for coordinating the operational speed of the advancing arrangement with that of the orienting arrangement for determining the length of the zigzag-folded layers deposited on the collecting arrangement.



No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : FAN FAULT DETECTION SYSTEM AND METHOD

(51) International classification :F24H0009200000,  
G06F0001200000,  
F24F0011300000,  
B60R0021017000,  
F25B0027000000

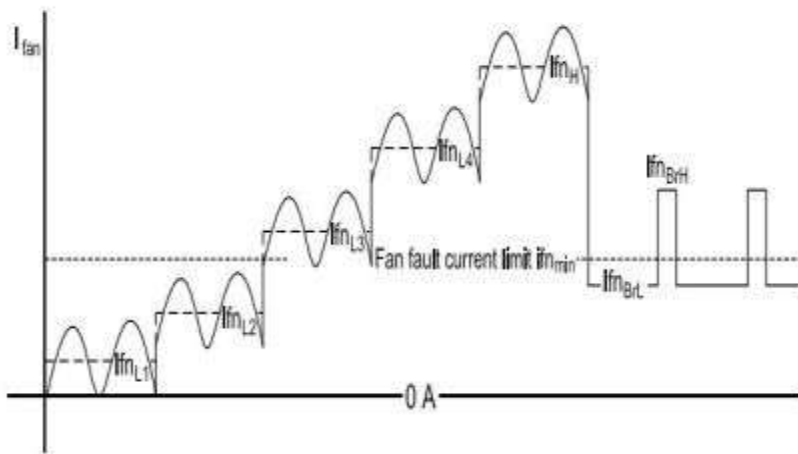
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)**Name of Inventor :**  
**1)RAKESH PADIKKAT RAMACHANDRAN**  
**2)CHANDRASEKARAN JAYARAMAN**  
**3)PRADEEP TOLAKANAHALLI NAGABHUSHANRAO**  
**4)MANJESH KUMAR**

(57) Abstract :

A system for cooling electronic equipment includes a fan, a sensor to measure current drawn by the fan, and a controller configured to operate the fan at an operational speed for a predetermined operational time period. After the predetermined operational time period, the fan is operated at a full fan speed for a detection time period, and it is determined whether the current drawn by the fan is at least one of below a minimum current value or above a maximum current value. If the current is determined to be at least one of above the minimum current value or below the maximum current value, then the fan is continued to operate at the operational speed. If the current is at least one of below the minimum current value or above the maximum current value, an output signal is generated to indicate a fan fault.



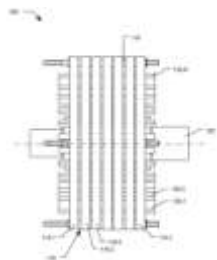
No. of Pages : 28 No. of Claims : 19

(54) Title of the invention : MODULAR STATOR AND ROTOR ASSEMBLY FOR COOLING

(51) International classification	:H02K0001320000, H02K0007180000, H02K0003470000, F03D0009250000, H02K0003280000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Mr. Murali Pandi</b>
(32) Priority Date	:NA	<b>2)Ms. Priyam Srivastava</b>
(33) Name of priority country	:NA	<b>3)Mr. Felix Zehren</b>
(86) International Application No	:NA	<b>4)Dr. Wolfgang Elser</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A modular stator and rotor assembly for cooling is disclosed, comprises a rotor shaft 102 having an axial bore 104 to allow flow of a coolant; a rotor 108 having magnet modules 112 arranged longitudinally with a rotor air gap 114 there between; and a stator 110. Each of the rotor air gaps 114 is fluidically coupled to the axial bore 104 through radial holes 106 on the rotor shaft 102 to allow flow of the coolant for cooling the magnet modules 112. The stator 110 includes stator segments 116 arranged along a longitudinal direction with a stator air gap 118 there between. The stator air gaps 118 are aligned with rotor air gaps 114 to fluidically couple the stator air gaps 118 to the corresponding rotor air gaps 114 to allow flow of the coolant for cooling of a plurality of armature windings 120 of the stator 110.



No. of Pages : 13 No. of Claims : 8



(54) Title of the invention : READY TO USE ZINC PHOSPHIDE BAIT FOR RODENT MANAGEMENT AND METHOD OF PREPARATION THEREOF •

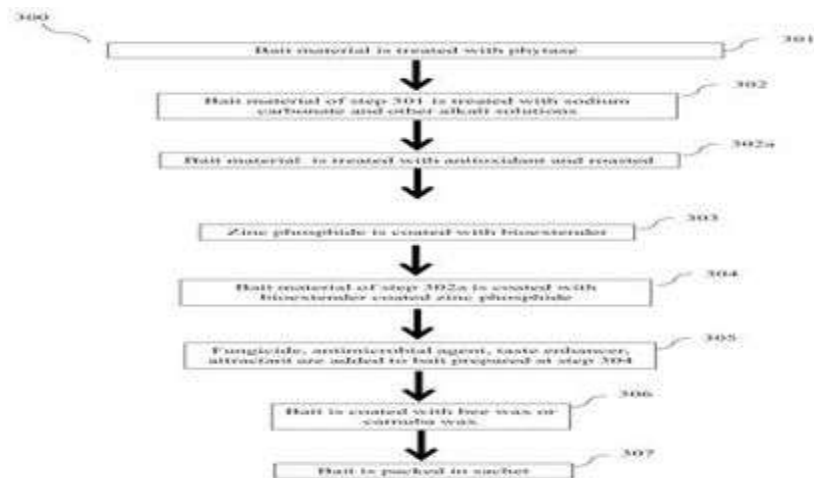
(51) International classification :G06T0007246000,  
A61K0009080000,  
C05F0011080000,  
A01N0025000000,  
A23K0020100000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :Ferozepur Road, Ludhiana- 141004,  
Punjab, India Punjab India  
**2)ORION ORGANICS PVT. LTD.**  
(72)Name of Inventor :  
**1)B.K. Babbar**  
**2)Sonam Kakkar**  
**3)Rakesh Kumar**

(57) Abstract :

The present invention provides ready to use bait against rodents and a method of preparing the same. The bait has enhanced palatability and weatherability and also works efficiently against the rodents. Further, the said invention is stable for 12 -18 months and is free of noxious smell of phosphine. Further, the present invention is free of spoilage even in adverse climatic conditions, is environment friendly and is packed in biodegradable sachets.



No. of Pages : 31 No. of Claims : 11

(54) Title of the invention : SCREW PAIR TOOTHBRUSH

(51) International classification	:H02G0005060000, H01R0004400000, H01R0025160000, A46B0015000000, F04C0002160000	(71) <b>Name of Applicant :</b> <b>1)A. P. R. SRINIVAS</b> Address of Applicant :B3-28, CHANDANAGAR HYDERABAD TELANGANA-500050, INDIA Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)A. P. R. SRINIVAS</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The patent works on a manual adult toothbrush. According to BIS standard, IS 3387-2004, a toothbrush consists of three parts viz. Toothbrush An implement comprising of the body and a head, designed to help in oral hygiene. Head of Toothbrush The part of toothbrush where cleaning elements are fastened. Brush Handle The entire body of the brush including the head. The length of an adult toothbrush is 150mm. The length of head and neck are 30 mm each. The maximum width of head is 15.5 mm. The head of the toothbrush consists of cleaning elements. These cleaning elements are facilitated into the dental cavity by the neck for oral hygiene. The handle of the toothbrush accounts for a firm grip to hold the toothbrush. The thumb fixation point is responsible for firm holding of the toothbrush. The thumb fixation point is at 130mm. The novelty of the patent application is the reuse of a particular part of the toothbrush. The incorporated screw pair facilitates easy removal of the worn out female part, to recycle it. The male part could be screwed with another female part and could be reused. Thus, the material to be recycled is reduced to the female part viz the head and the neck of the toothbrush. Thus, the percentage of the material to be recycled is 40 percent and 60 percent of the toothbrush is reusable. This makes use of the concept of REUSE from Sustainability.

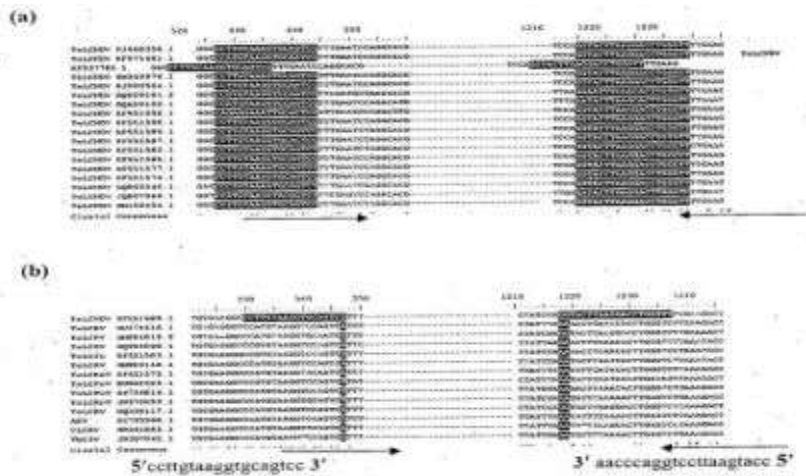
No. of Pages : 3 No. of Claims : 9

(54) Title of the invention : THE 3' POLYMORPHIC PRIMERS FOR SPECIES-SPECIFIC DETECTION OF BEGOMOVIRUS

(51) International classification	:C12R0001940000, B65H0023340000, A01H0001040000, C12N0015340000, C12Q0001689000	(71)Name of Applicant : <b>1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR)</b> Address of Applicant :KRISHI BHAWAN, 1 DR. RAJENDRA PRASAD ROAD NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MANDAL, BIKASH</b>
(33) Name of priority country	:NA	<b>2)ROY, ANIRBAN</b>
(86) International Application No	:NA	<b>3)KUMAR, PRADEEP</b>
Filing Date	:NA	<b>4)SOLANKI, VIKAS</b>
(87) International Publication No	: NA	<b>5)PATEL, SATYAM</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the process and primer sets for specific detection of begomoviruses at species level by PCR. .1-3 unique nucleotide sequence was identified in DNA-A genome of begomovirus species infecting tomato and chilli, which was utilized for designing primers containing the polymorphic sequences at 3end of primers for several begomovirus species which include Tomato leaf curl New Delhi virus, Tomato leaf curl Bangalore virus, Tomato leaf curl Palampur virus, Tomato leaf curl Gujarat virus, Tomato leaf curl Joydebpurvirus and Chilli leaf curl virus. The PCR optimization, sensitivity and accuracy tests were carried out for each primer pair with the respective cloned DNA-A of the above viruses. The specific detection was validated with field samples of tomato and chilli. It was utilised for the assessment of leaf curl resistance in chilli genotypes and also determining the distribution of these begomoviruses in tomato in different.places in India.



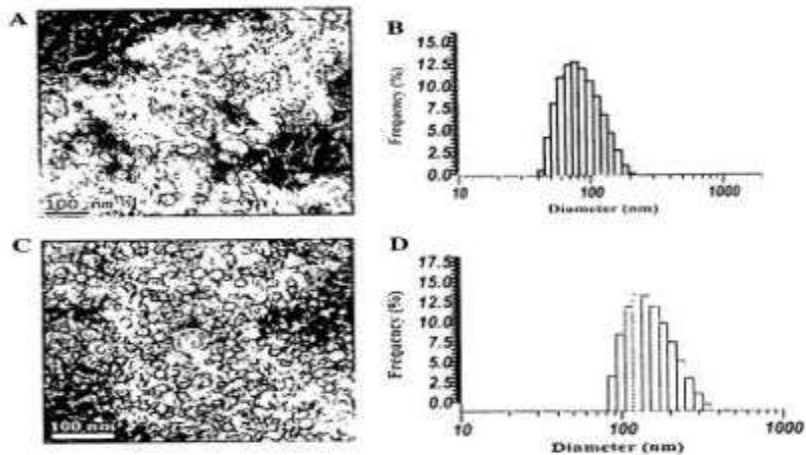
No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : ANTIMICROBIAL COMPOSITION OF INDOLE COUMPOUNDS

(51) International classification	:C12N0001200000, C12Q0001180000, A61K0035740000, A61K0039095000, C11D0003370000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MEDICHARLA JAGANNADHAM VENKATA</b>
(33) Name of priority country	:NA	<b>2)BOGA RAMESHBABU</b>
(86) International Application No	:NA	<b>3)AGARWAL BINA</b>
Filing Date	:NA	<b>4)AHMED GIASUDDIN</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is directed to an anti-microbial composition. This invention particularly relates to an anti-microbial composition comprising Indole derivatives in combination with antibiotics. This composition reduces the dosage of antibiotics used while treating infections and combating multi-drug resistance in bacteria against antibiotics. This invention also directs to growing bacteria in the presence of antibiotics and indole derivatives while reducing the minimum inhibitory concentration of antibiotics and regulating production of outer membrane vesicles in bacteria. This invention is also specifically directed to the use of Indole derivatives in combination with antibiotics to reduce the production of outer membrane vesicles in bacteria.



No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911051765 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

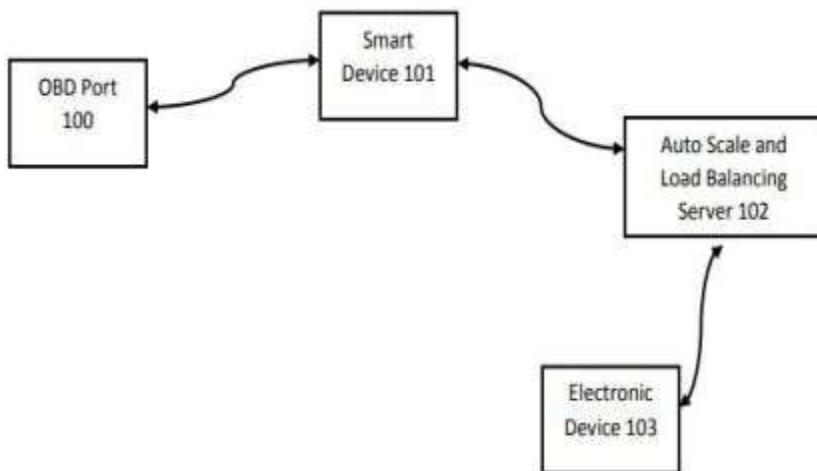
(43) Publication Date : 18/06/2021

(54) Title of the invention : A SMART DEVICE, SYSTEM AND METHOD FOR VEHICLE<sup>TMS</sup> DIAGNOSTICS

(51) International classification	:H04L0029080000, G07C0005080000, G01N0033000000, H04W0024080000, G07C0005000000	(71) <b>Name of Applicant :</b> <b>1)CEANTRA Technologies Pvt. Ltd.</b> Address of Applicant :B-32, Sector 63, Noida Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)TIWARI, Rajeev</b>
(33) Name of priority country	:NA	<b>2)GUPTA, Abhishek</b>
(86) International Application No	:NA	<b>3)GUPTA, Anurag</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein a portable smart device for management of vehicle health comprising receiving means to communicate different components of the vehicle to diagnose, air sensing means capable of measuring air quality index within the vehicle and a sensing mean capable of analyzing driving behavior of the driver, wherein the collected data/information in the device is analyzed on real time and transferred to the server for further analysis and predict the health of the vehicle and take a measure.



No. of Pages : 18 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911051834 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR PRODUCING 3-SUBSTITUTED 4-HYDROXYCOUMARIN

(51) International classification	:C07D0451060000, B65D0085804000, C08F0002000000, C07C0303280000, C12N0015850000	(71) <b>Name of Applicant :</b> <b>1)Indian Institute of Technology Delhi</b> Address of Applicant :Hauz Khas, New Delhi-110016, India. Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)HAIDER, Mohammad Ali</b>
(33) Name of priority country	:NA	<b>2)ALAM, Mohammad Imteyaz</b>
(86) International Application No	:NA	<b>3)AKHTAR, Mohammad Wasi</b>
Filing Date	:NA	<b>4)SHAHADAT, Mohammad</b>
(87) International Publication No	: NA	<b>5)AHMAD, Shaikh Ziauddin</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an amino-functional solid catalyst mediated process carried out in water medium for preparing a 3-substituted 4-hydroxy-2H-chromen-2-one or 3-substituted 4-hydroxy-2H-thiochromen-2-one compounds, in particular for preparing a 4-hydroxy-3-(3-oxo-1-phenylbutyl)chromen-2-one commonly known as warfarin.

No. of Pages : 23 No. of Claims : 8

(54) Title of the invention : SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR PAYMENT SECURITY

(51) International classification :H04L0029060000,  
G06F0021570000,  
G06F0021550000,  
G06F0021560000,  
G08B0021220000

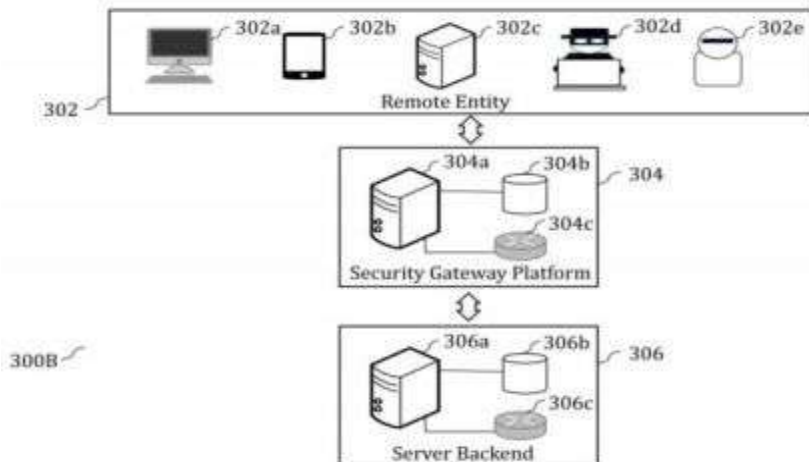
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Address of Applicant :3 Fraser Street, #17-21/28, DUO Tower, Singapore 189352 Singapore

(72)**Name of Inventor :**  
**1)EDUKULLA, Santhosh Kumar**

(57) Abstract :

The invention provides methods, systems and computer program products for identification of carding attacks and for initiating security responses to detected carding attacks. The invention comprises: (i) retrieving one or more attack signature definitions for analyzing the current payment transaction request, (if) for each retrieved attack signature definition determining whether the current payment transaction request is a security threat, and (iii) responding to identification of a security threat by initiating a security response.



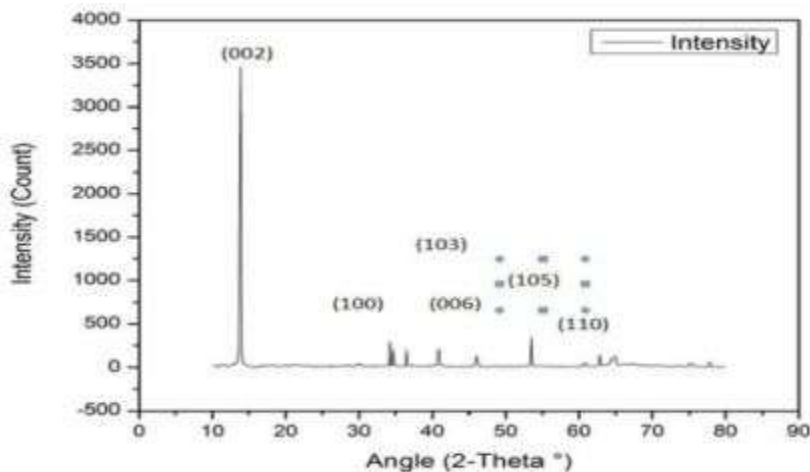
No. of Pages : 65 No. of Claims : 21

(54) Title of the invention : A LUBRICANT COMPOSITION AND IMPLEMENTATIONS THEREOF

(51) International classification	:B82Y0030000000, B01J0037020000, C10M0161000000, A61K0009510000, C10M0125020000	(71)Name of Applicant : <b>1)CHAIRMAN, DEFENCE RESEARCH &amp; DEVELOPMENT ORGANISATION</b> Address of Applicant :Ministry of Defence, Govt. of India, Room No 348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi 110 011, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)PRIYA, Vedanarayanan</b>
(33) Name of priority country	:NA	<b>2)SASIKUMAR, Krishnamoorthy</b>
(86) International Application No	:NA	<b>3)DHANALAKSHMI, Satishkumar</b>
Filing Date	:NA	<b>4)SOLOMON, Uthriappan</b>
(87) International Publication No	: NA	<b>5)KUMARASAMY, Annamalai</b>
(61) Patent of Addition to Application Number	:NA	<b>6)BALAMURUGAN, Venkatesan</b>
Filing Date	:NA	<b>7)SAJITH, Vandana</b>
(62) Divisional to Application Number	:NA	<b>8)SHIJO, Thomas</b>
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a lubricant composition comprising a nanoparticle having a particle size in a range of 70 to 100 nm, one base oil and one surfactant, wherein nanoparticle is selected from molybdenum disulphide nanoparticle, tungsten disulphide nanoparticle, graphite nanoparticle, and combinations thereof and in weight percentage of 0.00075% to 0.001% to the total weight percentage. The nanoparticles were synthesized by hydrolysis assisted exfoliation. The lubricant composition achieved very high reduction in coefficient of friction (COF) with a very low concentration of nanoparticles.



No. of Pages : 34 No. of Claims : 9

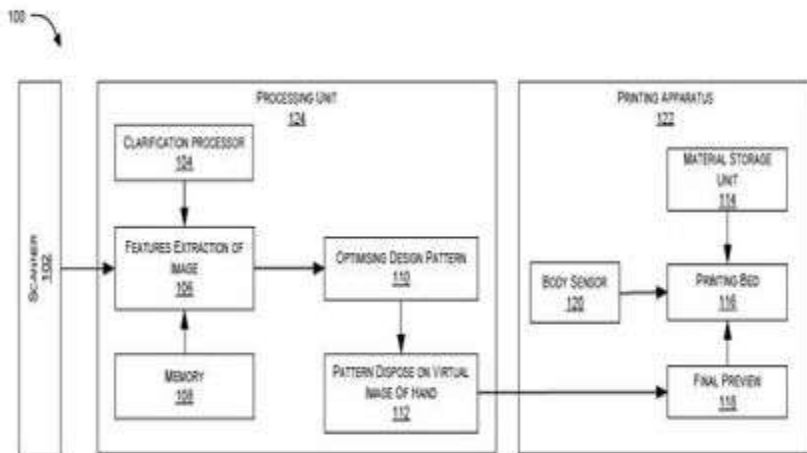


(54) Title of the invention : DEVICE FOR PRINTING A DESIGN PATTERN ON A PART OF BODY

(51) International classification	:G06T0007000000, A61B0008060000, A63H0033000000, G01B0011240000, G09G0003000000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GERA, Ashish</b>
(33) Name of priority country	:NA	<b>2)HAQUE, Mohd Junedul</b>
(86) International Application No	:NA	<b>3)SINGH, Varinder</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device for printing a design pattern on a part of body is disclosed. The device includes a scanner for scanning the part of the body on which the design is to be printed. A processing unit operatively coupled with the scanner, the processing unit comprising a processor coupled to a memory, the memory storing instructions executable by the processor to extract set of features from the scanned part of the body, wherein the set of features pertains to physical texture and dimensions of the scanned part of the body, in response to receipt of a set of instructions pertaining to selection of at least one of a set of design patterns, optimize the selected at least one design pattern based on the extracted set of features, and generate an output signal to enable printing of the optimized design pattern on the part of the body.



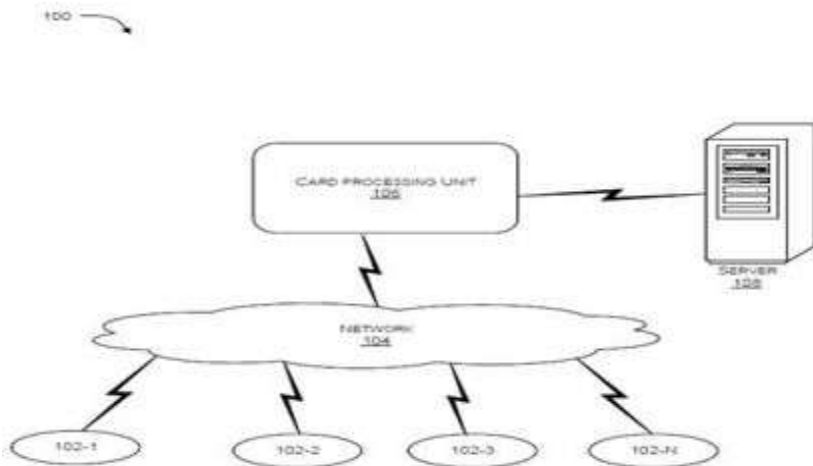
No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : METHOD AND SYSTEM FOR SECURING COMMUNICATION BETWEEN A CARD AND A CARD MACHINE

(51) International classification	:G06Q0020400000, G06Q0020380000, G06Q0020200000, G07B0015060000, G06K0013120000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PANDIAN, M. Thurai</b>
(33) Name of priority country	:NA	<b>2)SHARMA, Manish</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system and method for establishing a communication channel between a card and a card processing unit 106. The card is operatively coupled to the card processing unit 106 through a card machine 102. Authentication of the card is based on a comparison of a first key code associated with the card and a dataset including pre-stored key codes. When the card is authenticated, a second key code is generated by the card processing unit 106. The card processing unit 106 enables the second key code to replace the first key code on the memory associated with the card through the card machine 102. The second key code replaces the first key code in the dataset. The system 100 issues a warning signal representing detection of card cloning based on a negative comparison of the key code associated with the card and the dataset.



No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND METHOD FOR FEEDING WATER INTO A BOILER VESSEL

(51) International classification :F02C0003040000,  
 F01K0007400000,  
 F22D0001320000,  
 F25B0049020000,  
 G05D0007060000

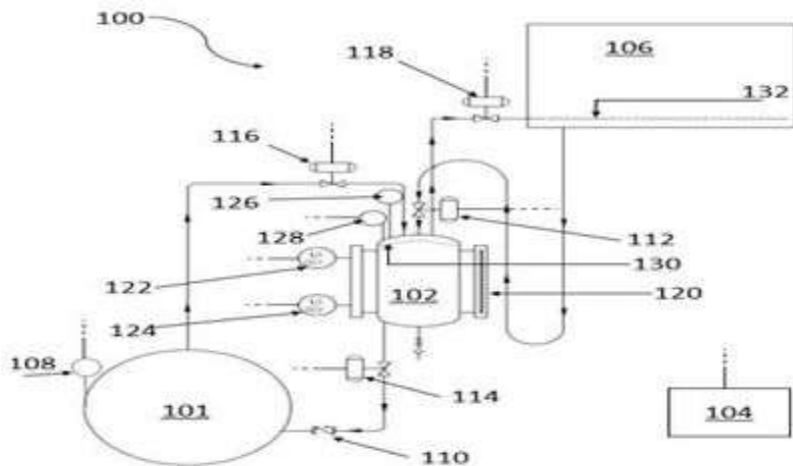
(31) Priority Document No :NA  
 (32) Priority Date :NA  
 (33) Name of priority country :NA  
 (86) International Application No :NA  
 Filing Date :NA  
 (87) International Publication No : NA  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)CHEEMA, Harjinder Singh**

(57) Abstract :

The present subject matter discloses a system (100) for feeding water into a boiler vessel (101). The system (100) comprises a thermal pump vessel (102), a plurality of valves and a control unit (104). The thermal pump vessel (102) is configured to be in a fluidic connection with a feed water tank (106) and the boiler vessel (101). The plurality of valves are configured to control flow of water or steam to or from the thermal pump vessel (102). The control unit (104) is configured to control the plurality of valves based on one or more predetermined parameters. The thermal pump vessel (102) is configured to feed water into the boiler vessel (101) after obtaining pressure equilibrium with the boiler vessel (101). The one or more predetermined parameters to control the plurality of valves are water level and steam pressure in the thermal pump vessel (102).



No. of Pages : 15 No. of Claims : 14

(54) Title of the invention : SYSTEM AND METHOD FOR AUTHORIZING TRAFFIC FLOWS

(51) International classification :H04L0029060000,  
H04L0001180000,  
H04N0021258000,  
H04L0001000000,  
H04W0052320000

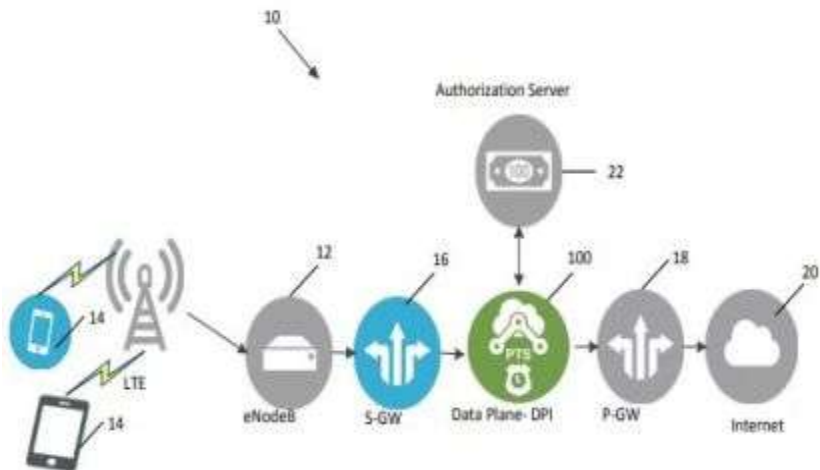
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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(72)**Name of Inventor :**  
**1)PATIL, Rajeshwar**  
**2)SIDDALINGAIAH, Gangaraju K**  
**3)SANNAMARIYAPPA, Kemparaju**

(57) Abstract :

A method and system for authorizing traffic flows in a computer network. The method including: receiving a packet from a traffic flow sent by a sender; determining whether the traffic flow has been previously authorized; if the traffic flow has not been previously authorized: determining a subscriber associated with the traffic flow, based on the data retrieved from the packet; requesting authorization from an authorization server based on the subscriber and the data retrieved from the packet; upon receiving a response from the authorization server, sending at least three duplicate acknowledgments to the sender, to generate a retransmission in advance of the standard retransmission timing; otherwise, if the traffic flow has been previously authorized, allowing the packet to continue to a destination.



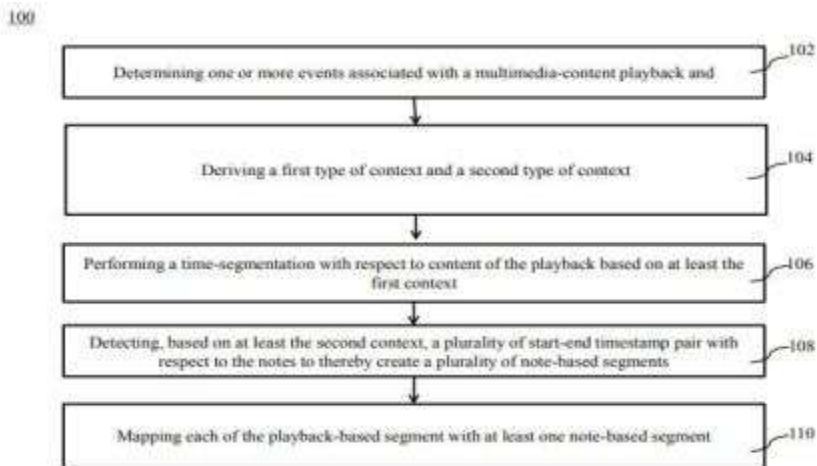
No. of Pages : 36 No. of Claims : 20

(54) Title of the invention : METHOD AND SYSTEM FOR ANNOTATING MULTIMEDIA-DATA DURING PLAYBACK

(51) International classification	:H04N0021845000, G06F0003160000, G06F0016700000, G10H0001000000, G06F0017270000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :416 Maetan-Dong, Yeongtong-GU, Suwon-SI, Gyeonggi-do 442-742, Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KUMAR, Vijayanand</b>
(33) Name of priority country	:NA	<b>2)CHAUDHARY, Vidushi</b>
(86) International Application No	:NA	<b>3)DESHBHRATAR, Anand</b>
Filing Date	:NA	<b>4)MEGHAWAT, Mayank</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method of annotating multimedia-data during playback, the method comprising determining one or more events associated with a multimedia-content playback and corresponding notes as being logged electronically by a user. The method further comprising deriving a first type of context and a second type of context based on processing of at least one of: content associated with the playback, content associated with the notes, events associated with at least one of the playback and the notes. Further, a time-segmentation is performed with respect to content of the playback based on at least the first context to thereby create a plurality of playback-based segments. Based on at least the second context, a plurality of start-end timestamp pair with respect to the notes to thereby create a plurality of note-based segments. Each of the playback-based segment is mapped with at least one note-based segment at-least based on the associated start-end timestamp pair.



No. of Pages : 38 No. of Claims : 10

(54) Title of the invention : A COMBINATIONAL UNIT FOR REGULATED DISPENSING OF SOAP WATER AND WATER

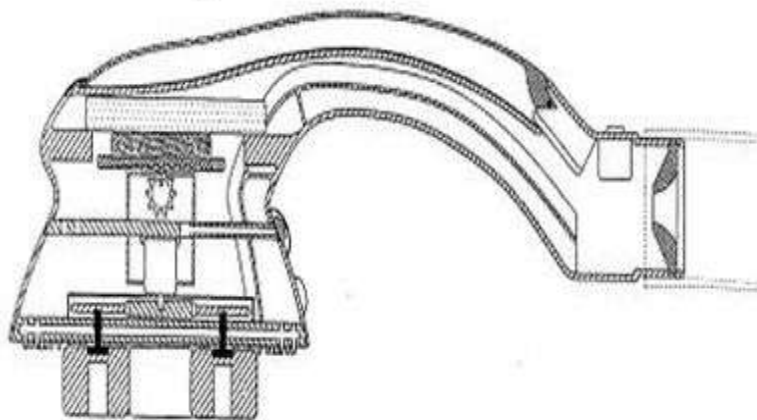
(51) International classification :E03C0001046000,  
B60S0003040000,  
G01N0001180000,  
B05B0012120000,  
B63B0059080000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)MR. PRIYANKU DAS**  
Address of Applicant :#C-08, 4TH FLOOR NAWADA  
HOUSING COMPLEX, NEAR TARAK HOSPITAL, PILLAR  
NO.791 DWARKA MOR, NEW DELHI-110059, INDIA Delhi  
India  
(72)Name of Inventor :  
**1)MR. PRIYANKU DAS**

(57) Abstract :

A combinational unit for regulated dispensing of soap water and water onto the body of a user is illustrated. The combinational unit includes a dispensing unit and a supporting unit. The combinational unit includes a water inlet with an inlet nozzle, a sensor unit to measure the flow rate of received water, a switch, an enclosure in the top end of the dispensing unit to securely receive a solid soap to form soap water. The dispensing unit includes a spongy substance, a rack and an associated cam, a primary gear coupled to a motor, a primary allocator, a micro-fan, a set of secondary gears, a set of retractable rollers for scrubbing, a secondary allocator, a power supply unit, a controlling unit and a plurality of outlet nozzles provided in the bottom end of the dispensing unit to facilitate the regulated passage of soap water and fresh water.



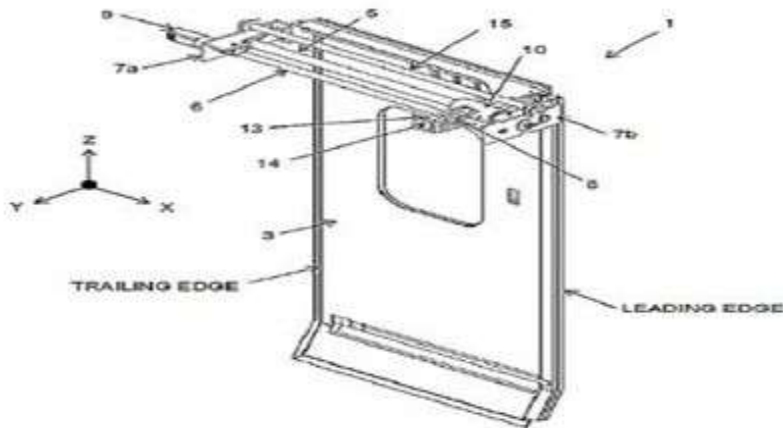
No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : DRIVE MECHANISM OF SLIDING TYPE PLUG DOOR SYSTEM

(51) International classification	:E05D0015100000, B61D0019000000, E06B0003460000, E05F0015655000, B61D0019020000	(71)Name of Applicant : <b>1)Escorts limited</b> Address of Applicant :Railway Equipment Division 15/5, Mathura Road Faridabad Haryana India 121003 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Mr. CVSS Siva Karthik</b>
(33) Name of priority country	:NA	<b>2)Mr. Sarthak Seth</b>
(86) International Application No	:NA	<b>3)Mr. Prateek Sharma</b>
Filing Date	:NA	<b>4)Mr. Bhaskara Rao Komarneni</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A sliding type plug door system is used as an entrance system in vehicles which require a flush external surface. The operating cycle of a sliding type plug door system begins with the door panel plugging out of the entrance portal and subsequently sliding to completely open the entrance portal. Thereafter, to close the entrance portal, the door panel first slides and then plugs in to seal off the entrance portal and completes the operating cycle. The drive mechanism plays a pivotal role in performing a smooth and jerk free operation of sliding type plug door system by ensuring the synchronized movement of door panel in the vehicle's longitudinal and lateral direction.



No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : METHOD AND SYSTEM FOR OPTIMIZING CAUSAL DEVICE USAGE PARAMETERS OF AN ELECTRONIC DEVICE

(51) International classification	:A61B0005000000, G16H0050200000, G06N0020000000, G16H0050300000, A61M0005142000	(71)Name of Applicant : <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :416 Maetan-Dong, Yeongtong-GU, Suwon-SI, Gyeonggi-do 442-742, Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)ALAM, Arshiyam</b>
(33) Name of priority country	:NA	<b>2)PACHAURI, Abhinav</b>
(86) International Application No	:NA	<b>3)KUMAR, Mohit</b>
Filing Date	:NA	<b>4)TRIPATHI, Hari Shankar</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a method and system for optimizing causal device usage parameters of an electronic device. The method includes determining a plurality of user health parameters and a corresponding plurality of causal device usage parameters at a current time instance. The method includes detecting current plurality of user health parameters data and device usage data. The method includes predicting a future value of the plurality of user health parameters for at least one future time instance based on the detected current values and a learned model. The method includes determining a variation between the predicted future value of the plurality of user health parameters and a nominal value and determining an optimal value of at least one of (a) the plurality of causal device usage parameters and (b) device parameters of at least one further device. Lastly, the method includes displaying a message indicative of the predicted future value of the plurality of user health parameters and the optimal values on the electronic device.

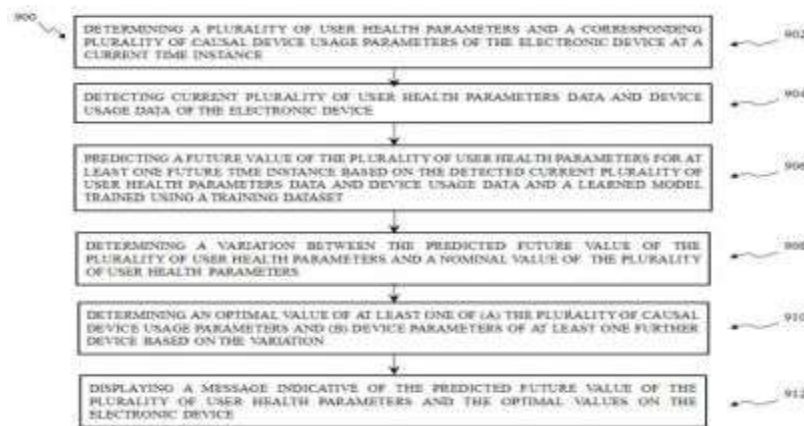


FIGURE 9

No. of Pages : 35 No. of Claims : 14



(54) Title of the invention : EXPLAINABLE ARTIFICIAL INTELLIGENCE (AI) BASED IMAGE ANALYTIC, AUTOMATIC DAMAGE DETECTION AND ESTIMATION SYSTEM

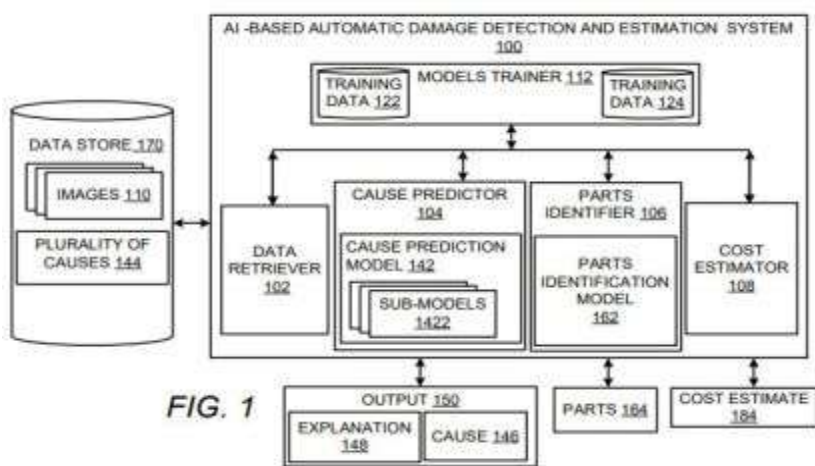
(51) International classification :G06N0020000000,  
G06N0005040000,  
G06N0007000000,  
G06N0005020000,  
G06N0003080000

(31) Priority Document No :16/715,193  
(32) Priority Date :16/12/2019  
(33) Name of priority country :U.S.A.  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ACCENTURE GLOBAL SOLUTIONS LIMITED**  
Address of Applicant :3 Grand Canal Plaza, Grand Canal Street Upper, Dublin 4, Ireland Ireland  
(72)Name of Inventor :  
**1)KAR, Indrajit**  
**2)Salman, Mohammed C**  
**3)VASHISHTA, Ankit**  
**4)Vishal D PANDEY**

(57) Abstract :

An Artificial Intelligence (AI) based automatic damage detection and estimation system receives images of a damaged object. The images are converted into monochrome versions if needed and analyzed by an ensemble machine learning (ML) cause prediction model that includes a plurality of sub-models that are each trained to identify a cause of damage to a corresponding portion for the damaged object from a plurality of causes. In addition, an explanation for the selection of the cause from the plurality of causes is also provided. The explanation includes image portions and pixels of images that enabled the cause prediction model to select the cause of damage. An ML parts identification model is also employed to identify and labels parts of the damaged object which are repairable and parts that are damaged and need replacement. The cost estimation for the repair and restoration of the damaged object can also be generated.



No. of Pages : 68 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014012833 A

(19) INDIA

(22) Date of filing of Application :24/03/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD OF SYNTHESIZING (1R,2R)-NITROALCOHOL COMPOUND

(51) International classification	:C07C0213000000, C07C0041260000, C07C0201120000, C07D0263140000, C07C0231120000	(71) <b>Name of Applicant :</b> <b>1)SICHUAN UNIVERSITY</b> Address of Applicant :No. 24, South First Section, First Ring Road, Chengdu, Sichuan China 610065 China
(31) Priority Document No	:CN201911267703.X	(72) <b>Name of Inventor :</b> <b>1)CHEN, Fener</b>
(32) Priority Date	:11/12/2019	<b>2)TANG, Pei</b>
(33) Name of priority country	:China	<b>3)XIA, Yingqi</b>
(86) International Application No	:NA	<b>4)DONG, Lin</b>
Filing Date	:NA	<b>5)XIAO, Youcai</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a method of synthesizing a (1R,2R)-nitroalcohol compound of formula (I), as shown in the following reaction scheme, including: subjecting a compound of formula (II) and a compound of formula (III) to a condensation reaction in an organic solvent in the presence of a copper complex generated in situ from a chiral (1S,2R)-amino alcohol ligand and a cupric salt to produce the (1R,2R)-nitroalcohol compound of formula (I), where R1 and R2 are defined in the same manner as that in the specification. The method involves mild reaction conditions, excellent diastereoselectivity and high chemical yield, and thus it is suitable for industrial applications.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014012981 A

(19) INDIA

(22) Date of filing of Application :25/03/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ONE-COMPONENT SOLVENT-FREE ANTI-SAGGING POLYURETHANE WATERPROOF COATING, PRODUCTION SYSTEM AND PRODUCTION METHOD THEREOF

(51) International classification	:C08G0018480000, C08G0018660000, C08G0018100000, C08G0018120000, H05K0003280000	(71) <b>Name of Applicant :</b> <b>1)Jiangsu Canlon Building Materials Co.,Ltd.</b> Address of Applicant :No. 8, Hengtong Rd., Qidu Town, Wujiang Dist., Suzhou, Jiangsu 215234, P.R.China China
(31) Priority Document No	:201911301237.2	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)Xiaogang HE</b>
(33) Name of priority country	:China	<b>2)Zhongren LI</b>
(86) International Application No	:NA	<b>3)Zubing ZHAO</b>
Filing Date	:NA	<b>4)Jiakang XU</b>
(87) International Publication No	: NA	<b>5)Shijie MA</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Yu HAN</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A one-component solvent-free anti-sagging polyurethane waterproof coating, a production system and a production method thereof; the polyurethane waterproof coating comprises the following components in parts by weight of: 25-50 parts of a polyurethane prepolymer, 10-20 parts of a heavy filler, 10-20 parts of a nano-filler, 0.05-0.2 parts of a composite catalyst, 0.1-0.3 parts of a physical defoamer, 0.1-0.3 parts of a chemical defoamer, 5-20 parts of a plasticizer, 0.1-0.3 parts of a dispersant, 0.05-0.2 parts of a dehydrating agent, and 2-5 parts of a reactive diluent, the polyurethane prepolymer is made by reacting 19-72 parts of a composite resin diol, 1-10 parts of a polyether triol, 0-32 parts of a composite isocyanate, and 0.1-0.5 parts of an aliphatic amine chain extender. The polyurethane waterproof coating provided by the present disclosure can not only be applied to a facade or a slope, has a strong anti-sagging property, maintains good physical properties, but also enables continuous production and increases the operating efficiency.

No. of Pages : 28 No. of Claims : 17

(54) Title of the invention : INVERTER VENT AND LOUDSPEAKER

(51) International classification :F04D0029420000,  
H04R0003000000,  
H02K0009060000,  
A42B0003160000,  
B60R0001060000

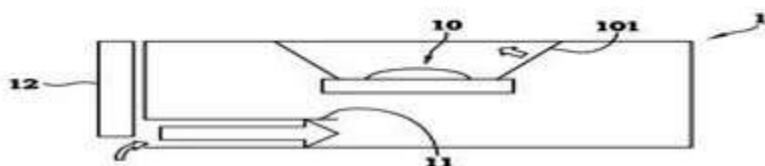
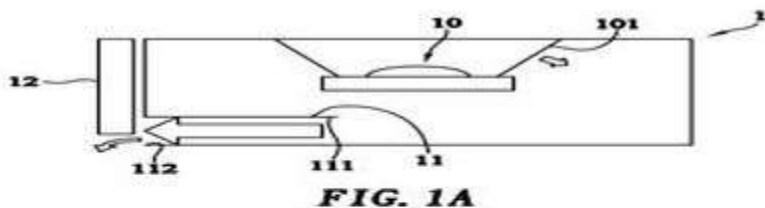
(31) Priority Document No :108145513  
(32) Priority Date :12/12/2019  
(33) Name of priority country/region :Taiwan  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Wistron Corporation**  
Address of Applicant :21F., No.88, Sec. 1, Hsintai 5th Rd.,  
Hsichih, New Taipei City 22181, Taiwan

(72)Name of Inventor :  
**1)WANG, Yao-Wei**  
**2)PAN, LI-PING**  
**3)CHENG, Ting-Yao**  
**4)CHEN, Hsin-Chi**  
**5)WANG, Li-Ren**  
**6)LU, Jing-Hong**  
**7)CHEN, Fei-Ta**  
**8)HUANG, Ya-Shian**  
**9)CHEN, Wei-Ting**

(57) Abstract :

INVERTER VENT AND LOUDSPEAKER Embodiments of the present disclosure provide an inverter vent and a loudspeaker having the same. Preferably, air flows within the inverted vent in a 360 degrees full-circumferential direction. This design can improve the efficiency of the loudspeaker, reduce the wind noise, and increase the bass ductility.



No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014041312 A

(19) INDIA

(22) Date of filing of Application :23/09/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : MOUNTING STRUCTURE OF KEYLESS ANTENNA

(51) International classification	:G07C0009000000, B60R0025240000, B23B0031120000, H01Q0001320000, H01Q0001120000	(71) <b>Name of Applicant :</b> <b>1)SUZUKI MOTOR CORPORATION</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-227372	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)Ryo KAWAZUMI</b>
(33) Name of priority country	:Japan	<b>2)Keisuke KURIHARA</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A mounting structure of a keyless antenna (5) wherein a rear seat (1) on which an occupant is seated is provided with the seat cushioning part (2) which constitutes a seating part, and the seat cushioning part (2) is provided on the top of the floor panel (3) which constitutes the floor of the vehicle, the keyless antenna 5 is mounted on the floor panel (3), a recess (21) recessed upward from a back surface (2a) toward a front surface (2b) of the seat cushioning part (2) is provided on a back surface (2a) side of the seat cushioning part (2) at a position corresponding to the position at which the keyless antenna (5) is mounted, and the keyless antenna (5) is disposed in the recess (21).

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014046958 A

(19) INDIA

(22) Date of filing of Application :28/10/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ELECTRONIC DEVICE

(51) International classification	:H01L0051050000, H04M0001020000, H01L0051000000, G06F0001160000, H01L0029786000	(71) <b>Name of Applicant :</b> <b>1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.</b> Address of Applicant :No. 18 Haibin Road, Wusha, Chang <sup>TM</sup> an, Dongguan, Guangdong-523860, China. China
(31) Priority Document No	:201911282316.3	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)YIN, Bin</b>
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses an electronic device. The electronic device includes a housing, a reel and a flexible display screen assembly. The housing includes a first portion and a second portion configured to move relative to each other. The reel is rotatably arranged to the first portion. The flexible display screen assembly has an end connected to the second portion and another end coupled to the reel. The reel is configured to rotate to release the flexible display screen assembly when the first portion and the second portion move away from each other

No. of Pages : 71 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014047133 A

(19) INDIA

(22) Date of filing of Application :28/10/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : VEHICULAR DOOR HANDLE MECHANISM

(51) International classification	:E05B0085160000, E05B0079060000, B81B0003000000, E05B0005000000, H01M0010052500	(71) <b>Name of Applicant :</b> <b>1)SUZUKI MOTOR CORPORATION</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-226460	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)Tatsuhiko MASUOKA</b>
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem to be Solved] In a vehicular door handle mechanism, stress concentration due to a tensile force applied to a handle knob, can be reduced. [Solution] A door handle mechanism of the present invention has: a handle case on a door panel of a vehicle; and a handle knob turnably attached to the handle case. One of the handle case and the handle knob has a fitting protruding portion, and the other has a fitting receiving portion. The fitting protruding portion has a high protruding region and a low protruding region lower than the high protruding region. In a state in which a grip portion of the handle knob is subjected to a tensile force toward an open side in a circumferential direction about a turning axis at a maximum open position, the fitting protruding portion has: a stopper action portion pushed against the fitting receiving portion under a force acting on a contact portion between a stopper portion of the handle knob and a stopper receiving portion of the handle case; and a maximum open grip action portion pushed against the fitting receiving portion under a force acting on the grip portion. A part of the low protruding region is arranged within a main interference range extending from the maximum open grip action portion toward the open side in the circumferential direction to the stopper action portion. [Selected Drawing] Figure 5

No. of Pages : 44 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014049078 A

(19) INDIA

(22) Date of filing of Application :10/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : VEHICLE DRIVING DEVICE

(51) International classification	:F16H0057020000, F24F0001005700, F16H0057040000, B60K0006260000, F02N0015000000	(71) <b>Name of Applicant :</b> <b>1)Suzuki Motor Corporation</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-225394	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)MIYAZAKI, Masahide</b>
(33) Name of priority country	:Japan	<b>2)KITAOKA, Keiji</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem to be Solved] To provide a vehicle driving device capable of achieving miniaturization by devising a shape of a transmission case in consideration of an installation position of a motor and an arrangement of shafts. [Solution] In a driving device (4), a transmission case (5) is provided with an upper wall (7E) located above a transmission mechanism (60), a front wall (7F) located in front of the transmission mechanism (60) and an inclined wall (7T) connecting the upper wall (7E) and the front wall (7F) and inclined downward as progress from the upper wall (7E) toward the front side, and a motor (35) is mounted in the transmission case (5) so as to face the inclined wall (7T).

No. of Pages : 62 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014049263 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : POWER TRANSMISSION DEVICE

(51) International classification	:F16H0057040000, B60K0017040000, F16H0057031000, H02K0007116000, F16H0057020000	(71) <b>Name of Applicant :</b> <b>1)Suzuki Motor Corporation</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-225398	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)MIYAZAKI, Masahide</b>
(33) Name of priority country	:Japan	<b>2)KITAOKA, Keiji</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a power transmission device capable of lubricating an endless flexible member while reducing stirring resistance of the endless flexible member with a simple configuration. [Solution] The power transmission device includes a chain (38) that transmits power between a motor output shaft (35B) and an idle shaft (12), a reduction gear case (8) storing a lubricant (O) at a base part to accommodate the chain (38) and a reduction gear cover (9), and is attached to a transmission case (5) of a driving device (4). A bulging part (8A) that bulges from a side wall (8r) of the reduction gear case (8) and expands a space inside the reduction gear case (8) and the reduction gear cover (9) is provided below the reduction gear case (8) and the bulging part (8A) is located apart from a track surface (38s) of the chain (38) in axial directions of the motor output shaft (35B) and the idle shaft (12).

No. of Pages : 56 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014049264 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : VEHICLE DRIVING DEVICE

(51) International classification	:F16H0057037000, F16H0057040000, F16H0003091000, F01D0025160000, F16D0025060000	(71) <b>Name of Applicant :</b> <b>1)Suzuki Motor Corporation</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-225395	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)MIYAZAKI, Masahide</b>
(33) Name of priority country	:Japan	<b>2)KITAOKA, Keiji</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a vehicle driving device capable of reinforcing a counter shaft bearing support part and a reverse travel shaft bearing support part and preventing a distance between the counter shaft and the reverse travel shaft from increasing due to the meshing between the counter gear and the reverse travel gear. [Solution] The driving device (4) includes a partition wall (6W) that partitions the inside into a clutch chamber (19) and a gear chamber (21), and the partition wall (6W) includes a bearing support part (64) that supports a counter shaft (14) via a cone roller bearing (25A) and a bearing support part (65) that supports a reverse travel shaft (15) via a ball bearing (26A). The bearing support part (64) and the bearing support part (65) bulge from the partition wall (6W) to the clutch chamber (19) side and the partition wall (6W) includes a rib (67) that connects the bearing support part (64) and the bearing support part (65).

No. of Pages : 54 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014049265 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : VEHICLE DRIVING DEVICE

(51) International classification	:F16D0023140000, F16D0025080000, B41J0015040000, F16H0003093000, F16D0023120000	(71) <b>Name of Applicant :</b> <b>1)Suzuki Motor Corporation</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-225396	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)MIYAZAKI, Masahide</b>
(33) Name of priority country	:Japan	<b>2)KITAOKA, Keiji</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a vehicle driving device capable of securing installation space and support rigidity of a clutch release shaft and preventing the device from increasing in size while preventing the clutch release shaft from interfering with a bearing support part. [Solution] A driving device (4) includes a rotatable clutch release shaft (46) and a clutch release mechanism (45) that connects/disconnects a clutch (41) by rotating the clutch release shaft (46). A partition wall (6W) of a right case (6) includes a bearing support part (64) that rotatably supports the counter shaft (14) via a cone roller bearing (25A) and a bearing support part (62) that rotatably supports an idle shaft (12) via a ball bearing (23B). The bearing support part (62) is formed at a position farther from the clutch (41) than the bearing support part (64) in the axial direction of the idle shaft (12) and the clutch release shaft (46) is installed so as to cross an extension (12L) of the idle shaft (12).

No. of Pages : 62 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014050204 A

(19) INDIA

(22) Date of filing of Application :18/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS AND PLANT FOR PRODUCING A SYNTHESIS GAS PRODUCT STREAM HAVING AN AD-JUSTABLE H<sub>2</sub>/CO RATIO AND A PURE HYDROGEN STREAM

(51) International classification	:C01B0003500000, B01D0053220000, B01D0053047000, C01B0003560000, C01B0003480000	(71) <b>Name of Applicant :</b> <b>1)L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude</b> Address of Applicant :75, Quai d'Orsay Paris, F-75007, France France
(31) Priority Document No	:19020688.8	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)Joerg OTT</b>
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Proposed are a process and a plant for producing a synthesis gas product stream having an adjustable H<sub>2</sub>/CO ratio and a pure hydrogen stream, wherein it is provided according to the invention that a substream of a deacidified synthesis gas stream is supplied to a membrane separation plant fitted with a hydrogen-selective membrane and the remaining substream is supplied to a pressure swing adsorption plant, wherein the latter affords a pure hydrogen stream and a fuel gas stream. The hydrogen-enriched permeate stream obtained from the membrane separation is likewise supplied to the pressure swing adsorption plant, thus enhancing the yield of pure hydrogen. The hydrogen-depleted retentate stream obtained from the membrane separation is discharged as a synthesis gas product stream and if of a suitable composition may be utilized as oxo gas.

No. of Pages : 35 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014051542 A

(19) INDIA

(22) Date of filing of Application :26/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : RUBBER COMPOSITION HAVING IMPROVED ELECTRICAL INSULATION PROPERTIES FOR REDUCING GALVANIC CORROSION

(51) International classification	:H01B0003280000, C08L0021000000, C08K0003220000, C08L0007000000, H05K0003280000	(71) <b>Name of Applicant :</b> <b>1)HYUNDAI MOTOR COMPANY</b> Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea Republic of Korea <b>2)KIA MOTORS CORPORATION</b>
(31) Priority Document No	:10-2019-0164784	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)PARK, Jong Min</b>
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A rubber composition having improved electrical insulation properties for reducing galvanic corrosion, a method of preparing the composition, and a rubber hose for vehicles using the composition are disclosed. The rubber composition includes a base polymer, a reinforcing agent, an anti-aging agent, an activating agent, a plasticizer, and a crosslinking agent, and has electrical insulation resistance (107 Ocm) of 50 or more.

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014052589 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ASSEMBLY AND METHOD FOR PREVENTING EXPOSURE OF PERSONNEL TO AN OPENING DEFINED BY A SURFACE OF A WIND TURBINE •

(51) International classification	:F03D0001060000, F03D0080000000, F03D0080550000, A61M0001000000, B65D0075580000	(71) <b>Name of Applicant :</b> <b>1)GENERAL ELECTRIC COMPANY</b> Address of Applicant :1 River Road, Schenectady, New York 12345 US U.S.A.
(31) Priority Document No	:16/713,587	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)Nicholas Demianovich</b>
(33) Name of priority country	:U.S.A.	<b>2)James Eric Reed</b>
(86) International Application No	:NA	<b>3)Gary Wayne Holladay</b>
Filing Date	:NA	<b>4)Owen Devlin Gauthier</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An assembly and method are provided for preventing exposure of personnel to an opening defined by a surface of a wind turbine. Accordingly, a hatch assembly is arranged adjacent to the opening. The hatch assembly includes a frame structure and a support structure. The frame structure includes a plurality of frame members arranged together to at least partially surrounded opening the plurality of frame members further define a passageway for receiving the support surface. The support surface is slidable between a first position and a second position. The support surface occludes the opening defined by the surface of the wind turbine when the support surface is in the first position and occludes the passageway defined by the plurality frame members when in the second position so as to prevent exposure of personnel to the opening. [Fig. 7C]

No. of Pages : 44 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014052662 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ATRIAL FIBRILLATION DETECTION SYSTEM

(51) International classification	:A61B0005046000, A61B0005000000, A61B0005042000, A61N0001390000,A61B0005040400	(71) <b>Name of Applicant :</b> <b>1)UNION TOOL CO.</b> Address of Applicant :17-1, Minami-Ohi 6, Shinagawa, Tokyo, Japan Japan
(31) Priority Document No	:2019-226464	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)Ryo SHINOZAKI</b>
(33) Name of priority country	:Japan	<b>2)Taishi MATSUI</b>
(86) International Application No	:NA	<b>3)Akio NAKATA</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ATRIAL FIBRILLATION DETECTION SYSTEM An object of the present invention is to provide an atrial fibrillation detection system in which: the extent of irregularity in measured pulse intervals is calculated; even in cases where an extrasystole has occurred, detection of a false positive is reduced even when the extrasystole is not excluded; and highly reliable assessment results are obtained. An atrial fibrillation detection system comprising: pulse interval measurement means 4 that measures the pulse intervals of a heart; pulse interval conversion means 8 that performs conversion, using a prescribed function, so that the extent of variation in the pulse intervals R obtained by the pulse interval measurement means 4 is substantially fixed; entropy computation means 9 that calculates entropy S from pulse interval images r obtained through conversion by the pulse interval conversion means 8; and comparative assessment means 10 that compares the entropy S calculated by the entropy computation means 9 and a threshold value, and that, in cases where the entropy S is greater than the threshold value, assesses that atrial fibrillation is occurring.

No. of Pages : 52 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014052808 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SEALING PLUG

(51) International classification	:H01M0002360000, H02G0003220000, A61J0001100000, H02G0003040000, E04G0017060000	(71) <b>Name of Applicant :</b> <b>1)ILLINOIS TOOL WORKS INC.</b> Address of Applicant :155 Harlem Avenue Glenview, Illinois 60025, United States of America U.S.A.
(31) Priority Document No	:201911293099.8	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1)HE, Jiahui</b>
(33) Name of priority country	:China	<b>2)SUN, Mengli</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a sealing plug. The sealing plug is 5 configured to seal a hole in a panel. The sealing plug comprises a plug body, at least two holding arms and a sealing portion. The plug body has a central axis and a support portion arranged around the central axis. Each of the at least two holding arms extends downward from the bottom of the support portion of the plug body and has a holding portion. The holding portions extend obliquely downward in a 10 direction away from the central axis. The sealing portion is arranged on an outer edge of the support portion of the plug body. The sealing body is made of a metal material, and the sealing portion is made of a material with a melting point lower than that of the metal material. The sealing plug according to the present disclosure can seal a hole in a panel, and the hole can be substantially sealed by the plug body 15 even when the ambient temperature is relatively high

No. of Pages : 29 No. of Claims : 12



(54) Title of the invention : METHOD FOR PREPARING POLYTHIOL COMPOSITION •

(51) International classification	:G02B0001040000, C08G0018380000, C07C0321140000, B82Y0030000000, B01J0037030000	(71) <b>Name of Applicant :</b> <b>1)SKC CO., LTD.</b> Address of Applicant :84, Jangan-ro 309beon-gil, Jangan-gu, Suwon-si, Gyeonggi-do 16336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0166924	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)PAI, Jaeyoung</b>
(33) Name of priority country	:Republic of Korea	<b>2)HONG, Seung Mo</b>
(86) International Application No	:NA	<b>3)SEO, Hyeon Myeong</b>
Filing Date	:NA	<b>4)SHIN, Junghwan</b>
(87) International Publication No	: NA	<b>5)KIM, Jeongmoo</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MYUNG, Jung Hwan</b>
Filing Date	:NA	<b>7)HAN, Hyuk Hee</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT METHOD FOR PREPARING POLYTHIOL COMPOSITION** The embodiments relate to a process for preparing a polythiol composition, which comprises reacting a halogen compound or an alcohol compound with thiourea to prepare a thiouronium salt solution; and adding a basic solution to the thiouronium salt solution to hydrolyze it. The hydrolysis reaction is terminated when the area of peak A in the graph measured by gel permeation chromatography of the reactant in the hydrolysis step under certain conditions is 0.5% to 8% based on the total peak area. Peak A is a peak located at -0.37 minute  $\pm$  0.08 minute with respect to the maximum peak (peak B) in the graph. A trifunctional polythiol composition having high purity can be obtained. In addition, the hydrolysis reaction is terminated when the area of peak C in the graph measured by gel permeation chromatography of the reactant in the hydrolysis step under certain conditions is 0.5% to 8% based on the total peak area. Peak C is a peak located at -0.4 minute  $\pm$  0.15 minute with respect to the maximum peak (peak D) in the graph. A tetrafunctional polythiol composition having high purity can be obtained. Thus, an optical lens having excellent color, transparency, and refractive index can be obtained.

No. of Pages : 38 No. of Claims : 12

(54) Title of the invention : DRAIN PLUG

(51) International classification	:F01M0011040000, E03C0001230000, H01L0029417000, A47K0001140000, B63B0013000000	(71) <b>Name of Applicant :</b> <b>1)ILLINOIS TOOL WORKS INC.</b> Address of Applicant :155 Harlem Avenue Glenview, Illinois 60025, United States of America U.S.A.
(31) Priority Document No	:201911280284.3	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)HE, Jiahui</b>
(33) Name of priority country	:China	<b>2)SUN, Mengli</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a drain plug, comprising an inlet part, a 5 outlet part and a seal cover. The inlet part is internally provided with an inlet channel, the inlet channel being provided with an inlet opening located at a distal end of the inlet part. A proximal end of the outlet part is connected to a proximal end of the inlet part, and the outlet part is internally provided with a outlet channel, the outlet channel being provided with an outlet opening located at a distal end of 10 the outlet part, and the outlet channel being in communication with the inlet channel. An upper end of the seal cover is connected to the outlet part, the seal cover is made of a flexible material, the seal cover has a closed position, in which the seal cover covers the outlet by means of gravity to close the outlet, and an opened position, in which the seal cover can be pushed away by the fluid in the 15 outlet channel, so as to open the outlet opening. The seal cover can prevent outside impurities from entering the drain plug while not affecting the outflow of the fluid from the drain plug.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053340 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM FOR DETERMINING THE DISTANCE TRAVELED BY AN UNDERWATER VEHICLE FROM AN UNDERWATER DEVICE

(51) International classification	:B63B0021660000, B63G0008000000, G01C0021160000, E21B0017010000, B63C0011520000	(71) <b>Name of Applicant :</b> <b>1)NAVAL GROUP</b> Address of Applicant :40-42 rue du Docteur Finlay, 75015 PARIS, FRANCE France
(31) Priority Document No	:19 14128	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)THIRIOT Andr</b>
(33) Name of priority country	:France	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

System for determining the distance traveled by an underwater vehicle from an underwater device This system for determining the distance traveled by an underwater vehicle (1) launched from an underwater device and connected thereto by information transmission means (2), coiled in the form of a hollow spool of turns (3) unwinding from its center during the movement of the underwater vehicle, is characterized in that it includes means (4, 5) for determining the number of decoiled turns in order to determine the distance traveled by the underwater vehicle. Figure for abstract: Figure 1

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053341 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM FOR DETERMINING THE DISTANCE TRAVELED BY AN UNDERWATER VEHICLE LAUNCHED FROM AN UNDERWATER DEVICE

(51) International classification	:B63G0008000000, A63B0024000000, G01C0021160000, F42B0019000000, G01S0005300000	(71) <b>Name of Applicant :</b> <b>1)NAVAL GROUP</b> Address of Applicant :40-42 rue du Docteur Finlay, 75015 PARIS, FRANCE France
(31) Priority Document No	:19 14124	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)THIRIOT Andr</b>
(33) Name of priority country	:France	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

System for determining the distance traveled by an underwater vehicle launched from an underwater device This system for determining the distance traveled by an underwater vehicle 10 launched from an underwater device and connected thereto by information transmission means, at least a portion of which is housed in a protective sheath (2), the transmission means and the sheath being coiled in the form of a hollow spool of turns (3) unwinding during the movement of the underwater vehicle, is characterized in that it includes means (4, 5) for determining the decoiled length of sheath in order to determine the distance 15 traveled by the underwater vehicle.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053470 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : DIAGNOSTIC METHOD FOR AN SCR-CATALYTIC CONVERTER

(51) International classification	:G06F0011220000, F01N0003200000, G01N0033680000, H04N0021436300, G05B0023020000	(71) <b>Name of Applicant :</b> <b>1)ROBERT BOSCH GMBH</b> Address of Applicant :Postfach 30 02 20, 70442 Stuttgart, Germany Germany
(31) Priority Document No	:102019219645.4	(72) <b>Name of Inventor :</b>
(32) Priority Date	:14/12/2019	<b>1)NAGEL, Cornelia</b>
(33) Name of priority country	:Germany	<b>2)FRANZ, Alexander</b>
(86) International Application No	:NA	<b>3)GOLLMER, Benjamin</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DIAGNOSTIC METHOD FOR AN SCR-CATALYTIC CONVERTER The present subject matter relates to a diagnostic method for an SCR catalytic converter, in which the storage efficiency of the SCR catalytic converter is determined 5 from a quotient of two integrals (26). The first integral is an integral of a difference between a modeled amount of nitrogen oxide downstream of the SCR catalytic converter and a measured sum of the amount of nitrogen oxide and the amount of ammonia downstream of the SCR catalytic converter. The second integral is an integral of an amount of ammonia dosed into the SCR catalytic converter or an amount of 10 ammonia overdosed into the SCR catalytic converter.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : HIGH VISCOSITY INDEX COMB POLYMER VISCOSITY MODIFIERS AND METHODS OF MODIFYING LUBRICANT VISCOSITY USING SAME

(51) International classification	:C10M0143120000, C10M0145140000, C10M0107100000, C10M0143080000, C08F0004659000	(71) <b>Name of Applicant :</b> <b>1)INFINEUM INTERNATIONAL LIMITED</b> Address of Applicant :P.O. Box 1, Milton Hill, Abingdon, Oxfordshire OX13 6BB, United Kingdom U.K.
(31) Priority Document No	:16/715,772	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)XU, Jun</b>
(33) Name of priority country	:U.S.A.	<b>2)GALBRAITH, Ewan</b>
(86) International Application No	:NA	<b>3)NGUYEN, Nga</b>
Filing Date	:NA	<b>4)LEWIS, Ronald M.</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

A comb copolymer viscosity modifier may be made by polymerization comprising at least, or consisting essentially of, the following monomers: (a) (optionally from 7.0 wt% to 18 wt%, by repeat units, of) a hydrogenated polybutadiene-based (alk)acrylate ester macromonomer; (b) (optionally from 33 wt% to 64 wt% or from 38 wt% to 58 wt%, by repeat units, of) a C3-C8 alkyl (alk)acrylate ester monomer; (c) (optionally up to 35.0 wt%, by repeat units, of) a C12-C24 alkyl (alk)acrylate ester monomer; and (d) (optionally from 3.0 wt% to 27 wt%, by repeat units, of) a C6-C20 aryl, aralkyl, or alkaryl (alk)acrylate ester monomer, such that a sum of repeat units due to (c) plus (d) constitute at least 21.0 wt% of repeat units of the comb copolymer viscosity modifier. Lubricant compositions comprising the comb copolymer viscosity modifier, as well as uses thereof and methods for modifying viscosity and dispersancy, are also contemplated.

No. of Pages : 92 No. of Claims : 21

(54) Title of the invention : HIGH VISCOSITY INDEX COMB POLYMER VISCOSITY MODIFIERS AND METHODS OF MODIFYING LUBRICANT VISCOSITY USING SAME

(51) International classification	:C10M0143120000, C10M0145140000, C10M0107100000, C10M0143080000, C08F0004659000	(71) <b>Name of Applicant :</b> <b>1)INFINEUM INTERNATIONAL LIMITED</b> Address of Applicant :P.O. Box 1, Milton Hill, Abingdon, Oxfordshire OX13 6BB, United Kingdom U.K.
(31) Priority Document No	:16/715,783	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)GALBRAITH, Ewan</b>
(33) Name of priority country	:U.S.A.	<b>2)NGUYEN, Nga</b>
(86) International Application No	:NA	<b>3)LEWIS, Ronald M.</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

A comb copolymer viscosity modifier may be made by polymerization comprising at least, or consisting essentially of, the following monomers: (a) (optionally from 7.0 wt% to 18 wt%, by repeat units, of) a hydrogenated polybutadiene-based (alk)acrylate ester macromonomer; (b) (optionally from 33 wt% to 64 wt%, by repeat units, of) a C3-C8 alkyl (alk)acrylate ester monomer; (c) a C12-C24 alkyl (alk)acrylate ester monomer; and (d) (optionally from 3.0 wt% to 25 wt%, by repeat units, of) H-endcapped, C1-C18 alkyl-endcapped, or C6-C20 aryl-, aralkyl-, or alkaryl- endcapped C2-C6 oxyalkyl or C2-C6 oligo(alkylene glycol)-based (alk)acrylate ester monomer, wherein repeat units based on monomer (c) and/or monomer (d) comprise at least 21.0 wt% (and optionally up to 35.0 wt%) of repeat units of the comb copolymer viscosity modifier. Lubricant compositions comprising the comb copolymer viscosity modifier, as well as uses thereof and methods for modifying viscosity and dispersancy, are also contemplated.

No. of Pages : 103 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053583 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : HIGH VISCOSITY INDEX COMB POLYMER VISCOSITY MODIFIERS AND METHODS OF MODIFYING LUBRICANT VISCOSITY USING SAME

(51) International classification	:C10M0143120000, C10M0145140000, C10M0107100000, C10M0143080000, C08F0004659000	(71) <b>Name of Applicant :</b> <b>1)INFINEUM INTERNATIONAL LIMITED</b> Address of Applicant :P.O. Box 1, Milton Hill, Abingdon, Oxfordshire OX13 6BB, United Kingdom U.K.
(31) Priority Document No	:16/715,748	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)GALBRAITH, Ewan</b>
(33) Name of priority country	:U.S.A.	<b>2)LEWIS, Ronald M.</b>
(86) International Application No	:NA	<b>3)NGUYEN, Nga</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A comb copolymer viscosity modifier may be made by polymerization comprising at least, or consisting essentially of, the following monomers: (a) a hydrogenated polybutadiene-based (alk)acrylate ester macromonomer (which repeat units may comprise from 7.0 wt% to 18 wt% of the repeat units of the comb copolymer viscosity modifier); (b) a C3-C8 alkyl (alk)acrylate ester monomer (which repeat units may comprise from 40 wt% to 71 wt% or from 45 wt% to 64 wt% of the repeat units of the comb copolymer viscosity modifier); and (c) a C12-C24 alkyl (alk)acrylate ester monomer, wherein repeat units based on the C12-C24 alkyl (alk)acrylate ester monomer comprise at least 21.0 wt% (and optionally up to 35.0 wt%) of repeat units of the comb copolymer viscosity modifier. Lubricant compositions comprising the comb copolymer viscosity modifier, as well as uses thereof and methods for modifying viscosity, are also contemplated herein.

No. of Pages : 78 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053646 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : REPETITIVE HUMAN ACTIVITIES ABNORMAL MOTION DETECTION

(51) International classification	:A61B0005110000, G01R0033565000, G06T0007277000, A61B0005000000, G01R0033483000	(71) <b>Name of Applicant :</b> <b>1)ROBERT BOSCH GMBH</b> Address of Applicant :Postfach 30 02 20, 70442 Stuttgart, Germany Germany
(31) Priority Document No	:16/717285	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)ZOU, Lincan</b>
(33) Name of priority country	:U.S.A.	<b>2)SONG, Huan</b>
(86) International Application No	:NA	<b>3)REN, Liu</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

REPETITIVE HUMAN ACTIVITIES ABNORMAL MOTION DETECTION Abnormal motions are detected in sensor data collected with respect to performance of repetitive human activities. An autoencoder network model is trained 5 based on a set of standard activity. Repetitive activity is extracted from sensor data. A first score is generated indicative of distance of a repetition of the repetitive activity from the standard activity. The repetitive activity is used to retrain the autoencoder network model, using weights of the autoencoder network model as initial values, the weights being based on the training of the autoencoder network model using the set of 10 standard activity. A second score is generated indicative of whether the repetition is an outlier as compared to other repetitions of the repetitive activity. A final score is generated based on a weighting of the first score and the second score.

No. of Pages : 27 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053759 A

(19) INDIA

(22) Date of filing of Application :10/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ELECTRET

(51) International classification	:H04R0019010000, H01G0007020000, B01D0039160000, H02N0001080000, B03C0003280000	(71)Name of Applicant : <b>1)DENSO CORPORATION</b> Address of Applicant :1-1, Showa-cho, Kariya-city, Aichi- pref., 448-8661 Japan Japan <b>2)TOKYO UNIVERSITY OF SCIENCE FOUNDATION</b>
(31) Priority Document No	:2019-225737	(72)Name of Inventor :
(32) Priority Date	:13/12/2019	<b>1)Kozawa, Yoshihiro</b>
(33) Name of priority country	:Japan	<b>2)Matsushita, Noriyuki</b>
(86) International Application No	:NA	<b>3)Kano, Kazuhiko</b>
Filing Date	:NA	<b>4)Tanaka, Yumi</b>
(87) International Publication No	: NA	<b>5)Maruyama, Tomoya</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Okamoto, Hiroshi</b>
Filing Date	:NA	<b>7)Morioka, Naoya</b>
(62) Divisional to Application Number	:NA	<b>8)Saiki Katsuyoshi</b>
Filing Date	:NA	

(57) Abstract :

An electret (1) includes a composite oxide having an ABO<sub>3</sub> type perovskite structure containing two different metal elements A and B. The composite oxide is in a polarized state, at least a part of one of the metal elements A and B is substituted with a dopant element having a lower valence than the one of the metal elements A and B, and the composite oxide has a bandgap energy of 4 eV or more.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053760 A

(19) INDIA

(22) Date of filing of Application :10/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ELECTRET

(51) International classification	:H04R0019010000, H01G0007020000, B01D00039160000, H02N0001080000, B03C0003280000	(71) <b>Name of Applicant :</b> <b>1)DENSO CORPORATION</b> Address of Applicant :1-1, Showa-cho, Kariya-city, Aichi- pref., 448-8661 Japan Japan <b>2)TOKYO UNIVERSITY OF SCIENCE FOUNDATION</b>
(31) Priority Document No	:2019-225735	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)Matsushita, Noriyuki</b>
(33) Name of priority country	:Japan	<b>2)Kozawa, Yoshihiro</b>
(86) International Application No	:NA	<b>3)Kano, Kazuhiko</b>
Filing Date	:NA	<b>4)Tanaka, Yumi</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electret (1) includes a substrate (10) and an electret layer (2) formed above a surface of the substrate. The electret layer is a composite metal compound containing two or more different metal elements, and is obtained by subjecting a thin film mainly composed of an inorganic dielectric material having a bandgap energy of 4 eV or more to a polarization treatment

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053886 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : INTERLEAVED INVERTER

(51) International classification	:G06F0012060000, H02M0007538700, H02M0003337000, G06F0001320300, H04B0001000000	(71) <b>Name of Applicant :</b> <b>1) KOHLER CO.</b> Address of Applicant :444 Highland Drive, Kohler, Wisconsin, USA 53044 U.S.A.
(31) Priority Document No	:16/712263	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1) Adam M Larson</b>
(33) Name of priority country	:U.S.A.	<b>2) Isaac S Frampton</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system and method for an interleaved inverter including a set of module circuits and an inverter controller. The module circuits include multiple switches. The inverter controller is configured to assign a first phase shift value to each of the module circuits during a normal mode of operation and assign a second phase shift value to at least one of the module circuits during a failure mode of operation. The second phase shift value is greater than the first phase shift value.

No. of Pages : 63 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053937 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SLIDING TYPE MASSAGE APPARATUS

(51) International classification	:A61H0023020000, A61H0015000000, A61H0009000000, A61H0007000000, A61H0019000000	(71) <b>Name of Applicant :</b> <b>1)CERAGEM Co., Ltd.</b> Address of Applicant :10, Jeongja 1-gil, Seonggeo-eup, Seobuk-gu, Cheonan-si, Chungcheongnam-do 31045, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0165443	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1)YU, Ho Sang</b>
(33) Name of priority country	:Republic of Korea	<b>2)PAEK, Keun Young</b>
(86) International Application No	:NA	<b>3)Lee Dong Myoung</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SLIDING TYPE MASSAGE APPARATUS Disclosed is a sliding type massage apparatus. In more detail, the sliding type massage apparatus is configured so that an auxiliary portion supporting a lower body of a user slidably moves from a body portion supporting an upper body of the user and thus the auxiliary portion maintains horizontality while moving. To this end, there is provided a sliding type massage apparatus including a body portion configured to support an upper body of a user and an auxiliary portion connected to the body portion to be slidable in a longitudinal direction to support a lower body of the user. Here, the body portion includes first support members which are rotatable to support a bottom surface of the auxiliary portion when the auxiliary portion slides.

No. of Pages : 27 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053959 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SHOE TRIMMING TOOL

(51) International classification	:A01G0017000000, A01D0034900000, B26B0005000000, A43D0087000000, A43D0095080000	(71) <b>Name of Applicant :</b> <b>1)Joy Global Surface Mining Inc</b> Address of Applicant :4400 W. National Avenue Milwaukee, WI 53214 United States of America U.S.A.
(31) Priority Document No	:62/947,109	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1)Matthew L. Gross</b>
(33) Name of priority country	:U.S.A.	<b>2)James M. Hutsick</b>
(86) International Application No	:NA	<b>3)Joseph J. Wirkus</b>
Filing Date	:NA	<b>4)Josh Severson</b>
(87) International Publication No	: NA	<b>5)Ethan Pedretti</b>
(61) Patent of Addition to Application Number	:NA	<b>6)James Popp</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A mining machine includes a frame having a guide rail, the guide rail having a central portion. The mining machine also includes a shoe having a recessed area that defines a roller path, the shoe further having a drive lug, wherein the central portion of the guide rail is configured to be disposed within the recessed area. The mining machine also includes a cutting tool coupled to the frame and positioned such that the cutting tool is configured to abrasively remove material from the drive lug as the drive lug passes by the cutting tool

No. of Pages : 30 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014053978 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : POLYIMIDE SUBSTRATE AND DISPLAY DEVICE

(51) International classification	:H01L0027120000, H05K0003380000, G02F0001134500, G02F0001136800, G09G0003360000	(71) <b>Name of Applicant :</b> <b>1)LG DISPLAY CO., LTD.</b> Address of Applicant :128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0165224	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1)Kim, Sunghoon</b>
(33) Name of priority country	:Republic of Korea	<b>2)Shin, Dongchae</b>
(86) International Application No	:NA	<b>3)Son, KyungMo</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

POLYIMIDE SUBSTRATE AND DISPLAY DEVICE • Polyimide substrates (300) and display devices (100). Embodiments of the disclosure are related to polyimide 5 substrates (300) and display devices (100), a plurality of intaglio patterns (EPTNs) are formed on at least a portion of one surface of a polyimide substrate (300), a high transmissive filling (400) is disposed inside the intaglio pattern (EPTN), thus an overall transmittance of the polyimide substrate (300) is enhanced. Furthermore, the filling (400) having a certain range of a coefficient of thermal expansion is disposed in the intaglio pattern (EPTN) to maintain a heat resistance of the polyimide substrate (300), an element being required a high temperature process could be disposed on the polyimide substrate (300) having an enhanced transmittance.

No. of Pages : 48 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014054133 A

(19) INDIA

(22) Date of filing of Application :12/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : AGRICULTURAL HARVESTER CONTROL SYSTEM, METHOD OF CONTROLLING AN AGRICULTURAL HARVESTER AND AGRICULTURAL HARVESTER

(51) International classification	:H04N0019460000, G08C0017020000, G05D0001000000, G05B0015020000, H04N0019510000	(71) <b>Name of Applicant :</b> <b>1)MARCHESAN IMPLEMENTOS E M • QUINAS</b> <b>AGR • COLAS TATU S.A.</b> Address of Applicant :Av. Marchesan, 1979, 15994-900 Matfo SP, Brazil Brazil
(31) Priority Document No	:BR102019026692- 9	(72) <b>Name of Inventor :</b> <b>1)MARCHESAN, Jos Luiz Alberto</b>
(32) Priority Date	:13/12/2019	
(33) Name of priority country	:Brazil	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a control system for use in an agricultural harvester, the system comprising a control panel (10) configured to send at least one mode signal (11) to a control means (20) via an user<sup>TM</sup>s (100) command (50), the control means (20) being configured to receive the mode signal (11) and generate a set of instructions (30), the set of instructions (30) being a function of the received mode signal (11), the control means (20) being configured to control at least one piece of equipment from a set of equipment (40) of the agricultural harvester depending on the generated set of instructions (30), providing greater reliability, precision and efficiency in its operation and elimination of operational errors caused by the user.

No. of Pages : 18 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014054298 A

(19) INDIA

(22) Date of filing of Application :14/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : A METHOD FOR OXIDIZING A 1,1-BIS-(3,4-DIMETHYLPHENYL)-ALKANE TO 3,3<sup>TM</sup>,4,4<sup>TM</sup>-BENZOPHENONE TETRACARBOXYLIC ACID

(51) International classification	:C07C0051310000, C07C0051275000, C01B0021360000, C22B0003060000, C01B0021400000	(71) <b>Name of Applicant :</b> <b>1)Evonik Fibres GmbH</b> Address of Applicant :Gewerbepark 4, 4861 Schrfling am Attersee (AT) Austria
(31) Priority Document No	:19216393.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)R-GL, Harald</b>
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In a method for oxidizing 1,1-bis-(3,4-dimethylphenyl)-alkane with nitric acid in a pressure vessel to produce 3,3<sup>TM</sup>,4,4<sup>TM</sup> benzophenone tetracarboxylic acid with concurrent formation of nitric oxide, passing nitric oxide from the pressure vessel into an absorption vessel and reacting nitric oxide in the absorption vessel with molecular oxygen and water to produce an aqueous nitric acid solution prevents discharge of nitric oxide, avoids the risk of oxygen inhibiting the nitric acid oxidation and reduces nitric acid consumption when the nitric acid from the absorption vessel is used for oxidizing the 1,1-bis-(3,4-dimethylphenyl)-alkane.

No. of Pages : 11 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014054486 A

(19) INDIA

(22) Date of filing of Application :15/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ALKOXYCARBONYLATION OF TRIVINYLCYCLOHEXANE

(51) International classification	:C07C0067380000, B01J0031240000, C07F0015000000, C07F0009500000, C07F0017020000	(71) <b>Name of Applicant :</b> <b>1)Evonik Operations GmbH</b> Address of Applicant :Rellinghauser Strasse 1-11, 45128 Essen (DE) Germany
(31) Priority Document No	:19216884.7	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)DONG, Kaiwu</b>
(33) Name of priority country	:EPO	<b>2)FRANKE, Robert</b>
(86) International Application No	:NA	<b>3)JACKSTELL, Ralf</b>
Filing Date	:NA	<b>4)BELLER, Matthias</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ALKOXYCARBONYLATION OF TRIVINYLCYCLOHEXANE Process for the alkoxy carbonylation of trivinylcyclohexane.

No. of Pages : 12 No. of Claims : 14

(54) Title of the invention : LEAKY WAVE ANTENNA IN AFSIW TECHNOLOGY

(51) International classification	:H01Q0013200000, H04B0007240000, H04B0005000000, G01S0013060000, G06K0007100000	(71) <b>Name of Applicant :</b> <b>1)THALES</b> Address of Applicant :TOUR CARPE DIEM, PLACE DES COROLLES, ESPLANADE NORD, 92400 COURBEVOIE France France <b>2)UNIVERSITE DE BORDEAUX</b> <b>3)INSTITUT POLYTECHNIQUE DE BORDEAUX</b> <b>4)CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE</b>
(31) Priority Document No	:1914577	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)GHIOTTO Anthony</b>
(33) Name of priority country	:France	<b>2)RAIMOND Ryan</b>
(86) International Application No	:NA	<b>3)Monsieur MAZEAU Thierry</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Leaky wave antenna of AFSIW structure comprising a top substrate layer (51) and a bottom substrate layer (31) sandwiching an intermediate layer (32) comprising a longitudinal aperture (323) of length L defining a waveguide and whose width W1 is delimited by two conductive lateral walls. The inner faces of the conductive lateral walls are coated with a layer of dielectric material of thickness w(z). The top layer (51) has a longitudinal radiating slot (52) of width Wf (z) facing the longitudinal aperture (323) of the intermediate layer. The thickness w(z) of the dielectric coating varies along the longitudinal axis z according to a given law, defined so as to obtain variations along the axis z of the amplitude Alpha(z) and of the phase Beta(z) of the leaky wave of the guide. Figure for the abstract: Fig. 4A

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014054744 A

(19) INDIA

(22) Date of filing of Application :16/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ACCESSORY MOUNTING STRUCTURE FOR AN ENGINE

(51) International classification	:F02F0007000000, F01M0011000000, F02B0067060000, F01M0005020000, F16H0007180000	(71) <b>Name of Applicant :</b> <b>1)SUZUKI MOTOR CORPORATION</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-227040	(72) <b>Name of Inventor :</b> <b>1)Sho OKAMURA</b>
(32) Priority Date	:17/12/2019	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Task] To increase oil pan coupling stiffness between an accessory and an engine block in an accessory mounting structure for an engine to reduce vibrations of the engine: [Solution] An oil pan 5 includes a corner 51A at which two sides (i.e. the right and front sides) of a flange 51 meet. The oil pan 5 has a bracket 53 that includes a boss 53A and a L-shaped bent wall 52. The L-shaped bent wall 52 is secured to the corner 51A and extends in the downward direction away from a (timing chain) case 21 secured to the engine block 1A. A compressor 25 has an upper mount 26 secured to the case 21 or to the cylinder block 3, and a lower mount 27 secured to the boss 53A. The corner 51A, to which the bent wall 52 is secured, is associated with the case 21 and the accessory 25 in a way such that the right side is adjacent to the case 21 and the front side is adjacent to the compressor 25. [Selected Figure] FIG. 3

No. of Pages : 21 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017008260 A

(19) INDIA

(22) Date of filing of Application :27/02/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : CAMP RECEPTOR PROTEIN MUTANT AND L-AMINO ACID PRODUCTION METHOD USING SAME

(51) International classification	:C07K 14/195, C12N 15/70, C12P 13/04, C12P 13/08, C12P 13/22	(71)Name of Applicant : <b>1)CJ CHEILJEDANG CORPORATION</b> Address of Applicant :330, Dongho-ro, Jung-gu, Seoul 04560 Republic of Korea
(31) Priority Document No	:10-2018-0150875	(72)Name of Inventor :
(32) Priority Date	:29/11/2018	<b>1)CHEONG, Ki Yong</b>
(33) Name of priority country	:Republic of Korea	<b>2)YOO, Hyeryun</b>
(86) International Application No	:PCT/KR2019/009291	<b>3)SEO, Chang Il</b>
Filing Date	:25/07/2019	<b>4)LEE, Jaemin</b>
(87) International Publication No	:WO 2020/111436	<b>5)CHO, Seung Hyun</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application pertains to a cAMP receptor protein mutant, a microorganism containing same, and an L-amino acid production method using same.

No. of Pages : 29 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017023003 A

(19) INDIA

(22) Date of filing of Application :01/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : TESTING DEVICE OF INVERTER DEVICE

(51) International classification	:H02M0001420000, H01R0013660000, H02M0001000000, E02F0009200000, H02M0001320000	(71) <b>Name of Applicant :</b> <b>1)TOSHIBA MITSUBISHIELECTRIC INDUSTRIAL SYSTEMS CORPORATION</b> Address of Applicant :3-1-1, Kyobashi, Chuo-ku, Tokyo 1040031, Japan Japan
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)TAWADA, Yoshihiro</b>
(33) Name of priority country	:NA	<b>2)AMBO, Tatsuaki</b>
(86) International Application No	:PCT/JP2019/034430	
Filing Date	:02/09/2019	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A testing device of an inverter device includes a power supply device including an AC-DC conversion circuit for converting AC power received from an AC power supply into DC power and a control part for controlling the AC-DC conversion circuit and a filter circuit interposed between a tested inverter device to be tested and the power supply device, having a reactor and a capacitor, and delivering the DC power output from the power supply device to the tested inverter device. The control part is configured to execute output adjustment of the AC-DC conversion circuit when a test start signal is generated to start an instantaneous voltage abnormality test which is a test changing magnitude of power supply voltage of the AC power supply in a predetermined direction being either one of increase or decrease during operation of the tested inverter device and the power supply device.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017026451 A

(19) INDIA

(22) Date of filing of Application :23/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : FUSION PROTEIN COMPRISING IL-2 PROTEIN AND CD80 PROTEIN, AND USE THEREOF

(51) International classification	:C07K 14/55, C07K 14/705, A61P 31/12, A61P 35/00, A61K 38/00	(71) <b>Name of Applicant :</b> <b>1)GI INNOVATION, INC.</b> Address of Applicant :A-1116, Songpa-daero, Songpa-gu, Seoul 05855 Republic of Korea
(31) Priority Document No	:10-2018-0110698	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/09/2018	<b>1)JANG, Myung Ho</b>
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2019/011928	
Filing Date	:16/09/2019	
(87) International Publication No	:WO 2020/060122	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a fusion protein comprising an IL-2 protein and a CD80 protein. A fusion protein comprising a CD80 fragment, an immunoglobulin Fc, and an IL-2 variant, in one embodiment, can activate immune cells, such as natural killer cells, and, at the same time, can control the immune cell regulatory activity of regulatory T cells. Therefore, a pharmaceutical composition comprising the fusion protein as an active ingredient can increase the immune activity in vivo and can be effectively used for not only cancer but also infectious diseases, and thus is highly industrially applicable.

No. of Pages : 68 No. of Claims : 33

(54) Title of the invention : TIME SYNCHRONIZATION DEVICE, ELECTRONIC DEVICE, TIME SYNCHRONIZATION SYSTEM AND TIME SYNCHRONIZATION METHOD

(51) International classification	:H04J 3/06, G06F 1/12
(31) Priority Document No	:201810596413.9
(32) Priority Date	:11/06/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/082926
Filing Date	:16/04/2019
(87) International Publication No	:WO 2019/237825
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)BOE TECHNOLOGY GROUP CO., LTD.**

Address of Applicant :No. 10 Jiuxianqiao Rd., Chaoyang District Beijing 100015 China

(72)Name of Inventor :

**1)WEI, Xiangye**

(57) Abstract :

Disclosed are a time synchronization device (1000) for an electronic device, an electronic device (50), a time synchronization system (60) and a time synchronization method. The time synchronization device (1000) comprises: a signal generation circuit (100) and a time adjustment circuit (150). The signal generation circuit (100) includes: a control circuit (11) configured to generate a frequency control word (F); and a signal conditioning circuit (12) configured to receive an input signal having an original frequency and the frequency control word (F), and to generate and output, according to the frequency control word (F) and the input signal, an output signal having a target frequency. The time adjustment circuit (150) is configured to perform synchronization regulation on a clock signal of the electronic device on the basis of the output signal having the target frequency. The time synchronization device (1000) can synthesize, by means of the signal generation circuit (100), an output signal having a sufficiently large frequency; a frequency granularity of the output signal is high, so that the electronic device obtains a more precise synchronous clock, and the working coordination and consistency of the electronic device in a network system is better.

No. of Pages : 35 No. of Claims : 18



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017027479 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : LITHIUM ION BATTERY USING CROSSLINKED SEPARATOR

(51) International classification	:H01M 2/16, C08J 3/24, C08J 9/36, H01G 11/52, H01M 10/052	(71)Name of Applicant : <b>1)ASAHI KASEI KABUSHIKI KAISHA</b> Address of Applicant :1-1-2 Yurakucho, Chiyoda-ku, Tokyo 1000006 Japan
(31) Priority Document No	:2018-192975	(72)Name of Inventor :
(32) Priority Date	:11/10/2018	<b>1)ZHANG, Xun</b>
(33) Name of priority country	:Japan	<b>2)KUROKI, Ryo</b>
(86) International Application No	:PCT/JP2019/040343	<b>3)FUKUNAGA, Yuki</b>
Filing Date	:11/10/2019	<b>4)KOBAYASHI, Hiromi</b>
(87) International Publication No	:WO 2020/075866	<b>5)SAITO, Mitsuko</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are: an electricity storage device separator containing a silane-modified polyolefin and characterized in that the silane crosslinking reaction of the silane-modified polyolefin commences upon contact with an electrolyte; and a method for manufacturing the separator.

No. of Pages : 143 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017049337 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : PVC IMPACT MODIFIER OPAQUE HIGH-IMPACT MBS AND PREPARATION METHOD THEREFOR

(51) International classification	:C08L0051040000, C08F0257020000, B01J0037020000, C08K0005100000, C08L0055020000	(71) <b>Name of Applicant :</b> <b>1)SHANDONG DONGLIN NEW MATERIALS CO., LTD</b> Address of Applicant :No.3130 Panlongshan Road, Longshan Hi-Tech Industry Zone, Linqu County Weifang, Shandong 262600 China
(31) Priority Document No	:201910113740.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:14/02/2019	<b>1)ZHANG, Xiaoquan</b>
(33) Name of priority country	:China	<b>2)YI, Tonggang</b>
(86) International Application No	:PCT/CN2019/125003	<b>3)XIA, Yongquan</b>
Filing Date	:13/12/2019	<b>4)ZHAO, Honggang</b>
(87) International Publication No	:WO 2020/164301	<b>5)LIU, Wen</b>
(61) Patent of Addition to Application Number	:NA	<b>6)ZOU, Boxiao</b>
Filing Date	:NA	<b>7)XU, Duo</b>
(62) Divisional to Application Number	:NA	<b>8)MA, Xiaomin</b>
Filing Date	:NA	

(57) Abstract :

Provided are a PVC impact modifier opaque high-impact MBS and a preparation method therefor, relating to the technical field of PVC additive production and preparation. Calculated by mass fractions, the provided MBS is composed of the following mass fractions of substances: 80%-95% core layer, 4%-20% shell layer, and 0.001%-0.05% protective colloid; the core layer is butadiene and styrene polymer; the shell layer is one of or a copolymer of two or three of styrene, acrylate, and methacrylate; and the protective colloid comprises one of polyvinyl alcohol, gelatin and hydroxypropyl methyl cellulose, or a complex of two or three of the three. The problems of the impact strength of existing MBS products not being high and the difficulty of coagulation or spraying in the post-treatment procedure are solved.

No. of Pages : 9 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017056789 A

(19) INDIA

(22) Date of filing of Application :28/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR PRODUCING OILS AND DEFATTED MEAL BY MEANS OF SOLID/LIQUID EXTRACTION

(51) International classification	:A61K0036310000, C08F0002060000, A61K0036899000, A23L0033000000, C02F0011121000	(71) <b>Name of Applicant :</b> <b>1)PENNAKEM EUROPA</b> Address of Applicant :224 avenue de la Dordogne Zone d'Entreprise du Nord Gracht 59640 Dunkerque France
(31) Priority Document No	:18 73103	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2018	<b>1)RAPINEL, Vincent</b>
(33) Name of priority country	:France	<b>2)PATOULLARD, Norbert</b>
(86) International Application No	:PCT/FR2019/053125	<b>3)CHEMAT, Farid</b>
Filing Date	:17/12/2019	<b>4)FABIANO TIXIER, Anne-Sylvie</b>
(87) International Publication No	:WO 2020/128307	<b>5)RUIZ, Karine</b>
(61) Patent of Addition to Application Number	:NA	<b>6)JACQUES, Laurence</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a process for producing an oil and defatted meal by means of solid/liquid extraction. The process comprises a step of solid/liquid extraction using a solvent containing 2-methyloxolane and water.

No. of Pages : 43 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017057405 A

(19) INDIA

(22) Date of filing of Application :31/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : VIDEO PLAYBACK DEVICE, PLAYBACK METHOD, AND PROGRAM

(51) International classification	:H04N0021472000, H04N0021440000, H04N0005760000, H04N0021238700, H04N0021234300	(71) <b>Name of Applicant :</b> <b>1)SONY CORPORATION</b> Address of Applicant :1-7-1, Konan, Minato-ku, Tokyo 1080075 Japan
(31) Priority Document No	:2018-240681	(72) <b>Name of Inventor :</b>
(32) Priority Date	:25/12/2018	<b>1)ARAKI Yuichi</b>
(33) Name of priority country	:Japan	<b>2)HASEGAWA Yuichi</b>
(86) International Application No	:PCT/JP2019/048705	<b>3)IZUMI Nobuaki</b>
Filing Date	:12/12/2019	
(87) International Publication No	:WO 2020/137584	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present technology relates to a video playback device, a playback method, and a program whereby it is possible to suppress a reduction in the degree of immersion of a viewer. This video generation device acquires a first 3D shape video which is generated from a plurality of viewpoint videos obtained by capturing an image of a subject from different viewpoints, and a second 3D shape video different from the first 3D shape video, and switches a frame to be played back, from a frame of the first 3D shape video to a frame of the second 3D shape video, on the basis of the state of the viewer viewing the first 3D shape video. The present disclosure can be applied to, for example, a video generation device, a video processing device, and a video playback device.

No. of Pages : 92 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004569 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ENHANCED BEDSORE PREVENTION MEMBER

(51) International classification	:A61G0007057000, A61F0013020000, H05K0003460000, A61F0009040000, A45D0044220000	(71)Name of Applicant : <b>1)LEE, Keun Cheol</b> Address of Applicant :(Namcheon-dong, Beach Apt.,) 303-301, 100, Gwanganhaebyeon-ro Suyeong-gu Busan 48305 Republic of Korea
(31) Priority Document No	:10-2019-0045574	(72)Name of Inventor :
(32) Priority Date	:18/04/2019	<b>1)LEE, Keun Cheol</b>
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2019/017751	
Filing Date	:13/12/2019	
(87) International Publication No	:WO 2020/213810	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an enhanced bed sore prevention member having a laminate structure composed of: a pad layer (10) of a synthetic resin material film, the pad layer (10) being produced in a sheet type by using synthetic resin material foam, hydrocolloid, or hydrogel coming into contact with skin; a cover layer (20) made of a synthetic resin material film material and integrally laminated on the outer surface of the pad layer (10); and an adhesive layer (30) provided on the inner surface of the cover layer (20) and having an adhesive applied thereonto, wherein the bed sore prevention member comprises: an opening (50) formed through the center thereof to allow an affected part of a patient's skin to be observed with the naked eye; a cover (40) openable/closable by being fitted and coupled corresponding to the shape of the opening (50); and a covering cover (90) provided on the upper outer surface of the cover (40) while having an area wider than the area of the cover.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117006854 A

(19) INDIA

(22) Date of filing of Application :18/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : IMAGE ENCODING DEVICE, IMAGE ENCODING METHOD, IMAGE ENCODING PROGRAM, IMAGE DECODING DEVICE, IMAGE DECODING METHOD, AND IMAGE DECODING PROGRAM

(51) International classification	:H04N0019520000, H04N0019560000, H04N0019513000, H04N0019159000, H04N0019176000	(71) <b>Name of Applicant :</b> <b>1)JVCKENWOOD CORPORATION</b> Address of Applicant :3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 2210022 Japan
(31) Priority Document No	:2018-247412	(72) <b>Name of Inventor :</b>
(32) Priority Date	:28/12/2018	<b>1)TAKEHARA Hideki</b>
(33) Name of priority country	:Japan	<b>2)NAKAMURA Hiroya</b>
(86) International Application No	:PCT/JP2019/048423	<b>3)SAKAZUME Satoru</b>
Filing Date	:11/12/2019	<b>4)FUKUSHIMA Shigeru</b>
(87) International Publication No	:WO 2020/137539	<b>5)KUMAKURA Toru</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KURASHIGE Hiroyuki</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a technology for improving encoding efficiency by performing block division suitable for encoding and decoding an image. The present invention is provided with: an encoded information storage unit that adds inter-prediction information used for inter-prediction to a history predictive motion vector candidate list; a history predictive motion vector candidate derivation unit that derives history predictive motion vector candidates from the history predictive motion vector candidate list; and a history merge candidate derivation unit that derives history merge candidates from the history predictive motion vector candidate list. The history predictive motion vector candidate derivation unit and the history merge candidate derivation unit refer to the candidates included in the history predictive motion vector candidate list in orders different from each other, and designate each of the candidates as a history predictive motion vector candidate or a history merge candidate.

No. of Pages : 87 No. of Claims : 6

## (54) Title of the invention : BMS RECOGNITION SYSTEM AND METHOD

(51) International classification	:H01M0010420000, H02J0007000000, G06F0013380000, B60L0050500000, H04W0084200000	(71) <b>Name of Applicant :</b> <b>1)LG CHEM, LTD.</b> Address of Applicant :128, Yeoui-daero, Yeongdeungpo-Gu, Seoul 07336 Republic of Korea
(31) Priority Document No	:10-2018-0166763	(72) <b>Name of Inventor :</b>
(32) Priority Date	:20/12/2018	<b>1)HWANG, Ji-Won</b>
(33) Name of priority country	:Republic of Korea	<b>2)SUNG, Chang-Hyun</b>
(86) International Application No	:PCT/KR2019/017891	
Filing Date	:17/12/2019	
(87) International Publication No	:WO 2020/130576	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

The present invention relates to a BMS recognition system and method for effectively recognizing a master BMS and slave BMSs in a battery pack having a plurality of BMSs. The BMS recognition system according to an embodiment of the present invention, is a system for recognizing BMSs provided in a battery pack, and comprises: a master BMS having a master light emitting unit and being configured to transmit an operation mode switching signal to a slave BMS by blinking the master light emitting unit when the operation mode of the slave BMS is to be switched; and the slave BMS having a slave light receiving unit configured to respond to the blinking of the master light emitting unit, and being configured to switch an operation mode in response to the operation mode switching signal by recognizing that the master light emitting unit is turned on through the slave light receiving unit.

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117010200 A

(19) INDIA

(22) Date of filing of Application :11/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHODS AND MEANS FOR PREPARING A LIBRARY FOR SEQUENCING

(51) International classification	:C12Q0001686900, C12Q0001687400, C12Q0001680600, C40B0040060000, A61K0035170000	(71) <b>Name of Applicant :</b> <b>1)ILLUMINA, INC.</b> Address of Applicant :5200 Illumina Way San Diego, California 92122 U.S.A.
(31) Priority Document No	:62/780812	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2018	<b>1)STEEMERS, Frank J.</b>
(33) Name of priority country	:U.S.A.	<b>2)POKHOLOK, Dmitry K.</b>
(86) International Application No	:PCT/US2019/066272	<b>3)CHRISTIANSEN, Lena</b>
Filing Date	:13/12/2019	
(87) International Publication No	:WO 2020/131626	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of systems, methods, and compositions provided herein relate to assays for selectively controlling enzymatic reactions. Some embodiments relate to methods of inhibiting, reducing, or eliminating secondary DNA (such as mitochondrial DNA) sequencing reads from open chromatic sequencing, whole genome sequencing, or targeted sequencing.

No. of Pages : 28 No. of Claims : 30



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117010432 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INFORMATION PREDICTION METHOD, MODEL TRAINING METHOD AND SERVER

(51) International classification	:G06K0009460000, G06T0007730000, G06K0009000000, G06N0020000000, G06F0009451000	(71) <b>Name of Applicant :</b> <b>1)TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED</b> Address of Applicant :35/F,Tencent Building, Kejizhongyi Road, Midwest District of Hi-Tech Park, Nanshan District, Shenzhen, Guangdong 518057 China
(31) Priority Document No	:201811526060.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2018	<b>1)LI, Hongliang</b>
(33) Name of priority country	:China	<b>2)WANG, Liang</b>
(86) International Application No	:PCT/CN2019/124681	<b>3)SHI, Tengfei</b>
Filing Date	:11/12/2019	<b>4)YUAN, Bo</b>
(87) International Publication No	:WO 2020/119737	<b>5)YANG, Shaojie</b>
(61) Patent of Addition to Application Number	:NA	<b>6)YU, Hongsheng</b>
Filing Date	:NA	<b>7)YIN, Yinyuting</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are an information prediction method, a model training method and a server. The information prediction method comprises: acquiring an image to be predicted (101); extracting a set of features to be predicted from the image to be predicted, wherein the set of features to be predicted comprises a first feature to be predicted, a second feature to be predicted and a third feature to be predicted, the first feature to be predicted represents an image feature of a first area, the second feature to be predicted represents an image feature of a second area, the third feature to be predicted represents an attribute feature related to an interactive operation, and the range of the first area is smaller than the range of the second area (102); and acquiring, by means of a target joint model, a first tag and/or a second tag corresponding to the set of features to be predicted, wherein the first tag represents a tag related to operation content, and the second tag represents a tag related to an operation intention (103). Micro control and a view of the overall situation can be predicted merely by using a joint model, thereby effectively solving the problem of a hard handover in a hierarchical model and improving the convenience of prediction.

No. of Pages : 45 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117011751 A

(19) INDIA

(22) Date of filing of Application :19/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BLOCK COPOLYMER COMPRISING HYDROPHILIC FIRST BLOCK, HYDROPHOBIC SECOND BLOCK, AND FUNCTIONAL GROUP CAPABLE OF SPECIFICALLY BINDING TO THIOL

(51) International classification :C08F0293000000,  
C09D0017000000,  
G03F0007000000,  
H01L0021027000,  
B32B0037060000

(31) Priority Document No :10-2018-0163379

(32) Priority Date :17/12/2018

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2019/017899  
Filing Date :17/12/2019

(87) International Publication No :WO 2020/130580

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)GI CELL, INC.**

Address of Applicant :#B-1553, 14, Galmachi-ro 288beon-gil,  
Jungwon-gu Seongnam-si, Gyeonggi-do 13201 Republic of Korea

(72)Name of Inventor :

**1)KIM, Won Jong**

**2)JANG, Dong Hyun**

(57) Abstract :

The present invention relates to a block copolymer comprising a hydrophilic first block, a hydrophobic second block, and a functional group capable of specifically binding to a thiol.

No. of Pages : 40 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117012793 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONNECTOR FOR USE IN ANTIBODY MEDICAMENT CONJUGATE AND APPLICATIONS OF CONNECTOR

(51) International classification	:A61K0047680000, G01N0033535000, G01N0033543000, C07K0016320000, C07K0016180000
(31) Priority Document No	:201811541356.0
(32) Priority Date	:17/12/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/124982 :13/12/2019
(87) International Publication No	:WO 2020/125546
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)REMEGEN CO., LTD.**

Address of Applicant :No. 58 Beijing Middle Road, Yantai Development Zone Yantai District, China (Shandong) Pilot Free Trade Zone Shandong 264006 China

(72)Name of Inventor :

**1)HUANG, Changjiang**

**2)YE, Hui**

**3)CHEN, Hu**

**4)ZHAN, Xiuzhi**

**5)SHEN, Nan**

**6)LUO, Wenting**

**7)HOU, Qiaohua**

**8)FANG, Jianmin**

(57) Abstract :

A connector for use in preparing an antibody conjugate, the antibody medicament conjugate prepared with the connector, and uses thereof in a tumor-treating medicament. The connector is capable of coupling simultaneously with an antibody or thiol groups or amino groups on a functional fragment of the antibody and specifically is capable of coupling with 2, 3, or 4 thiol groups on the functional fragment of the antibody. A coupled product is uniform and structurally stable.

No. of Pages : 87 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117014391 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ELECTRIC EXPANSION VALVE

(51) International classification :F16K0031040000,  
F16K0037000000,  
F16K0031530000,  
F16K0011074000,  
B60N0002020000

(31) Priority Document No :18214593.8

(32) Priority Date :20/12/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/085364  
Filing Date :16/12/2019

(87) International Publication No :WO 2020/127062

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)DANFOSS A/S**

Address of Applicant :Nordborgvej 81 6430 Nordborg  
Denmark

(72)Name of Inventor :

**1)LARSEN, Sigurd**

**2)HARCK, Kurt**

**3)KRISTENSEN, S,ren St,trup**

**4)REESE, Birthe Nissen**

**5)VAGNSHOLDT, Charlotte Vibeke Pingel**

(57) Abstract :

Electric expansion valve (1) comprising a valve housing (12), a valve seat (2), a valve element (3) cooperating with the valve seat (2), a drive driving the valve element (3) and comprising a rotary motor (4) having an axis (17) of rotation. The valve element (3) is connected to the motor (4) and has a possibility of radial displacement between the rotor (6) and the valve element (3) with respect to the axis (17) of rotation. Such an expansion valve should ensure a long lifetime with low production costs. To this end the valve element (3) is connected to the motor (4) by means of a fixing element (16) which guarantees a defined position of the valve element (3) in axial direction while allowing the radial displacement between the axis (17) of rotation and the valve element (3).

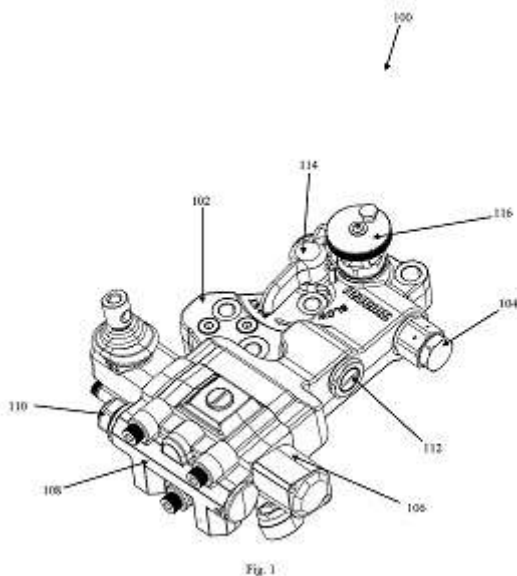
No. of Pages : 9 No. of Claims : 13

(54) Title of the invention : INTEGRATED CONTROL VALVE ASSEMBLY FOR A VEHICLE

(51) International classification	:F15B0013040000, F16K0027020000, F04B0053160000, F01P0007160000, F02M0059460000	(71) <b>Name of Applicant :</b> <b>1)Mahindra &amp; Mahindra Limited</b> Address of Applicant :Mahindra&Mahindra Ltd., Akurli Road, Kandivli (E), Mumbai India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Jatinder Chawla</b>
(33) Name of priority country	:NA	<b>2)Jasjit Sohal</b>
(86) International Application No	:NA	<b>3)Vikas Singh</b>
Filing Date	:NA	<b>4)Rishabh Dev Sharma</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Integrated control valve assembly 100 for a hydraulic system of a vehicle includes a valve body 102, a cylinder safety valve 104, at least one directional control valve 106, where the directional control valve is either assembled to the integrated control valve assembly 100 or not assembled to the integrated control valve assembly 100, an end cover 108, a system safety valve 110, a check valve 112, a speed response valve 114, and an isolator valve 116. The valve body 102 having a first fluid passage 102a defining an inlet port 102l adapted to facilitate entry of fluid from end cover 108 to valve body 102 through the first opening 106a of directional control valve 106, and an outlet port 102m adapted to facilitate exit of fluid from valve body 102 to a control valve. FIG. 1



No. of Pages : 36 No. of Claims : 10

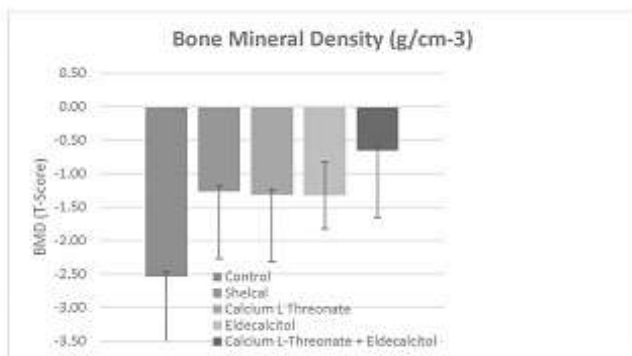
(54) Title of the invention : SYNERGISTIC NUTRITIONAL COMPOSITIONS FOR TREATING METABOLIC BONE DISORDERS

(51) International classification	:A23L0033000000, A61K0031575000, A61K0038180000, C07C0215540000, C12Q0001681100	(71) <b>Name of Applicant :</b> <b>1)Celagenex Research (India) Pvt. Ltd.</b> Address of Applicant :801, Emerald-B, Dosti Planet North, Old Mumbai Pune Road, Shill, Thane- 400612, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)T. PRASAD RAJENDRA</b>
(33) Name of priority country	:NA	<b>2)DHAMANE DHIRAJ</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention disclosed herein relates to synergistic nutritional compositions for treating metabolic bone disorders. Particularly, the present invention provides an antiresorptive nutritional composition comprising synergistic combination of therapeutically active calcium-L-threonate and eldcalcitol, along with pharmaceutically acceptable excipients or carriers. More particularly, the synergistic combination significantly increases bone mineral density (BMD) or bone strength in a subject in need thereof.

Figure-2



No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921033153 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

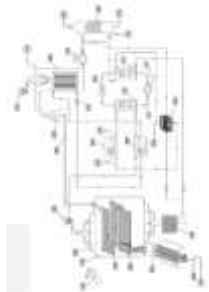
(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR SLUDGE VOLUME REDUCTION AND ENVIRONMENT FRIENDLY DISPOSAL THEREOF

(51) International classification	:B09B0003000000, C02F0001280000, A61F0013551000, A61F0013150000, B65D0047080000	(71) <b>Name of Applicant :</b> <b>1)Arvind Envisol Limited</b> Address of Applicant :Arvind Mills, Naroda Road, Ahmedabad-380025, Gujarat, India Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mihir R. Patel</b>
(33) Name of priority country	:NA	<b>2)Abhishek Tikmani</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a power operated low operating cost sludge dryer system that works on heat pump principle and equipped with closed loop heat recovery and waste heat recovery system to further dehumidify the dewatered biological and chemical STP (Sewage Treatment Plant) / ETP (Effluent Treatment Plant) sludge to minimize sludge volume before l and filling as well as GHG emissions resulting from sludge l and filling.



No. of Pages : 27 No. of Claims : 25

(54) Title of the invention : AUTOMATIC DRAIN SOLENOID VALVE WITH INTEGRATED MANUAL DRAINAGE MECHANISM

(51) International classification :F16K0031060000,  
F16T0001200000,  
E03C0001232000,  
F04B0039160000,  
F02M0025080000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Address of Applicant :987/11, GIDC, Makarpura, City  
Vadodara State Gujarat Country India Pin code 390010 Gujarat  
India

(72)**Name of Inventor :**  
**1)Mr. Nirav shah**

(57) Abstract :

TITLE OF INVENTION:- AUTOMATIC DRAIN SOLENOID VALVE WITH INTEGRATED MANUAL DRAINAGE

MECHANISM ABSTRACT: The present invention relates to an Automatic Drain Solenoid Valve with integrated manual drainage mechanism. The present invention drains out water from fuel tank both automatically and manually. The Automatic Drain Solenoid Valve separates water from the fuel and drains out the water from fuel tank. The present invention consists of an integrated manual drainage mechanism with the Automatic Drain Solenoid Valve. The manual drainage mechanism drains out water from the fuel tank when the Automatic Drain Solenoid Valve is in de-energised state.

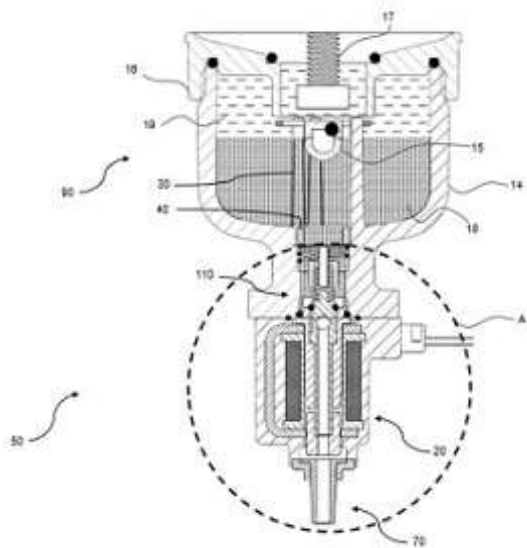


Figure 1

No. of Pages : 20 No. of Claims : 13



(54) Title of the invention : FRUIT INSPECTION MACHINE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:A23B0007152000, G06T0007000000, G16H0050200000, A23L0003342700, G01N0033020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)DR. PRADEEP M. PATIL</b> Address of Applicant :DEPT. OF E &amp; TC, JSPM/TSSM'S BHIVRABAI SAWANT COLLEGE OF ENGINEERING &amp; RESEARCH, NARHE,PUNE,MAHARASHTRA,INDIA, PIN CODE: 411041 Maharashtra India</p> <p><b>2)DR. UDDHAV M. SHIRSAT</b> <b>3)MRS. SHILPA S. KANSE</b></p> <p>(72)Name of Inventor :</p> <p><b>1)DR. PRADEEP M. PATIL</b> <b>2)DR. UDDHAV M. SHIRSAT</b> <b>3)MRS. SHILPA S. KANSE</b></p>
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(57) Abstract :

The highlight of this research work is to discover the ethylene gas level used for ripening of fruits by detecting ethylene gas (C<sub>2</sub>H<sub>4</sub> in ppm) level employing soft sensor built using image processing and Artificial Neural Networks (ANN) algorithms. The proposed method relies on the color which denotes the various stages in ripening and in turn indicates the amount of ethylene gas required. The changes in color, texture, intensity variation, mean, variance and standard deviation extracted from the images are the features which enable the personnel to determine the amount of ethylene gas. Machine vision-based systems and new optical technologies make it feasible to create non-destructive control and monitoring tools for quality assessment to ensure adequate accomplishment of food standards.

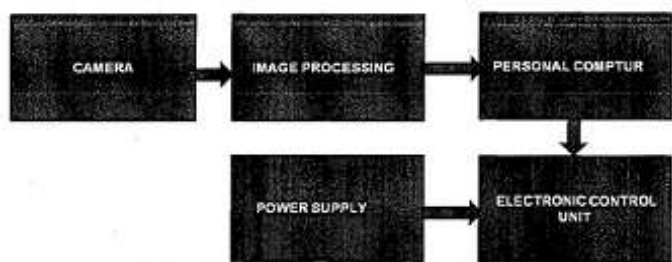


Figure 1: Block diagram of the proposed system.

No. of Pages : 7 No. of Claims : 10

(54) Title of the invention : A DEVICE FOR THE TREATMENT OF ANAL FISTULA-IN-ANO AND COMPLEX FISTULA-IN-ANO

(51) International classification :A61M0001000000,  
A61M0025100000,  
A61B0017320000,  
A61M0025000000,  
A61B0017000000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)HEALING HANDS CLINIC PRIVATE LIMITED**  
Address of Applicant :FLAT NO. 105, MANGALMURTI COMPLEX, SHUKRAWAR PETH, TILAK ROAD, PUNE - 411002, MAHARASHTRA, INDIA Maharashtra India

(72)**Name of Inventor :**  
**1)Dr. Ashwin Dhanrajii Porwal**

(57) Abstract :

A device for the treatment of anal fistula-in-ano and complex fistula-in-ano is disclosed. The device comprises: a balloon inflation/deflation tube (1); a suction/drainage tube (3); a scooping tube (2) that is disposed between the balloon inflation/deflation tube (1) and the suction/drainage tube (3); a diaphragm (4) that is disposed across the balloon inflation/deflation tube (1) and the suction/drainage tube (3); and an irrigation/drainage path (5) that is disposed between a balloon (6) and a plurality of spikes (7), said balloon (6) being disposed at an end of the of the balloon inflation/deflation tube (1), and said plurality of spikes (7) being disposed on an outer surface of both the balloon inflation/deflation tube (1) and the suction/drainage tube (3). The disclosed device: prevents premature closure of fistula wound, thereby minimizing the chances of recurrence; is easy to use, thus avoiding the need for a skilled medical practitioner; causes minimal pain; and is less time consuming.

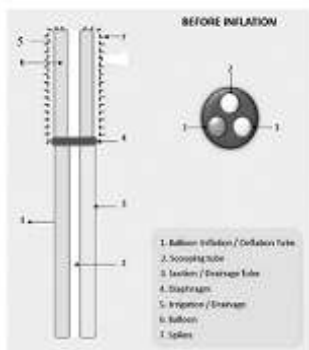


Figure 1

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921051272 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR PREPARATION OF ETHYLENE OLIGOMERIZATION CATALYST AND OLIGOMERIZATION THEREOF

(51) International classification	:B01J0031140000, B01J0031220000, C08F0004659000, C07C0069760000, C07C0002360000	(71) <b>Name of Applicant :</b> <b>1)Indian Oil Corporation Limited</b> Address of Applicant :G-9, Ali Yavar Jung Road, Bandra (East), Mumbai-400 051, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SINGH, Gurmeet</b>
(33) Name of priority country	:NA	<b>2)RANI, Rashmi</b>
(86) International Application No	:NA	<b>3)KAUR, Sukhdeep</b>
Filing Date	:NA	<b>4)SINGH, Dheer</b>
(87) International Publication No	: NA	<b>5)CHOPRA, Anju</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KAPUR, Gurpreet Singh</b>
Filing Date	:NA	<b>7)RAMAKUMAR, Sankara Sri Venkata</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention describes a catalyst composition for use as a catalyst system for an ethylene oligomerization, providing high activity and produce linear oligomer product having broad weight percent distribution i.e. C4 to C16. The catalyst composition comprises a zirconium amide compound, an organoaluminum compound and an additive. The present invention also provides a process for preparation of the zirconium amide compound comprising reacting a zirconium component having formula  $ZrX_m.nTHF$ , wherein X is halogen atom; m is an integer having value equal or less than 4 and n is a number equal or less than 2, and a substituted amide of formula  $RCONRR''$ , wherein R, R' and R'' are saturated or unsaturated aliphatic C1-C10 hydrocarbon or aromatic C6-C14 hydrocarbon, in the presence of an organic solvent.

No. of Pages : 22 No. of Claims : 16

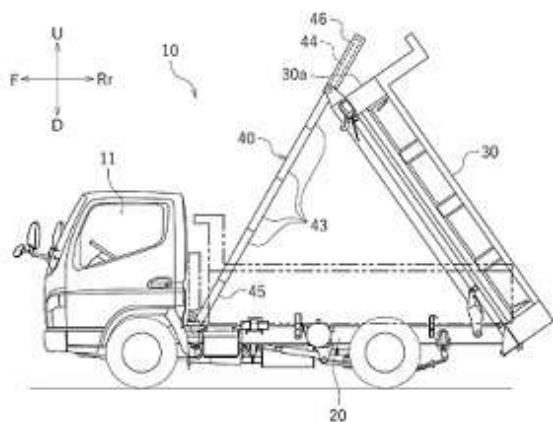
(54) Title of the invention : BRACKET, DUMP VEHICLE INCLUDING BRACKET, AND METHOD FOR PRODUCING BRACKET

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:B60P0001200000, B60J0007140000, B62D0033027000, B60K0023020000, B60P0001160000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)<b>Name of Applicant :</b> <b>1)SHINMAYWA INDUSTRIES, LTD.</b> Address of Applicant :1-1, Shinmeiwa-cho, Takarazuka-shi, Hyogo, 665-8550 Japan Japan</p> <p>(72)<b>Name of Inventor :</b> <b>1)Takafumi ITO</b> <b>2)Masaki KINOSHITA</b></p>
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(57) Abstract :

A bracket 100, 200 is formed of forged iron and is usable in a dump vehicle 10 including an extendable cylinder 40 provided between an undercarriage 20 and a side surface 30a of a cargo box 30. The cylinder 40 includes a pivoting shaft 41 provided on the side of the undercarriage 20 and a pivoting shaft 42 provided on the side of the cargo box 30. The bracket 100, 200 connects the cylinder 40 with the undercarriage 20 or the cargo box 30 such that the cylinder 40 is pivotable. The bracket 100, 200 includes an insertion hole 112, 212 formed therein through which the pivoting shaft 41 of the cylinder 40 provided on the side of the undercarriage 20 or the pivoting shaft 42 of the cylinder 40 provided on the side of the cargo box 30 is to be inserted; and an attachment plane S1, S2 to be in contact with the undercarriage 20 or the side surface 30a of the cargo box 30.

FIG. 1



No. of Pages : 80 No. of Claims : 20

(54) Title of the invention : SYSTEM AND DEVICE FOR FAULT DETECTION FOR PUBLIC ADDRESS BROADCASTING

<p>(51) International classification :H04W0004800000, H04W0076140000, G10L0025780000, H02H0003000000, H04R0029000000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)<b>Name of Applicant :</b>  <b>1)Pulz Electronics Limited</b>  Address of Applicant :2nd Floor, Kailashpati Building, Plot 10A, Veera Desai Road, Andheri West, Mumbai-400053, Maharashtra, India. Maharashtra India</p> <p>(72)<b>Name of Inventor :</b>  <b>1)GHOSE, Anirvan</b></p>
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(57) Abstract :

The present disclosure provides a system and device for detection device for public address broadcasting,the device includes:at least one input port for receiving a stream of audio signals;a first communication channel extending from the input port to at least one output port to enable electric coupling of the input port and the output port;an impedance unit configured with the communication channel, wherein the received stream of amplified audio signals is transmitted to the audio broadcasting unit through the output port; anda control unit electrically coupled across the impedance unit, wherein the control unit configured to:extract value of a set of parameters from the received stream of audio signals being transmitted through the impedance unit, wherein the set of parameters pertain to electrical power of the stream of audio signals being transmitted through the impedance unit; andcompare the extracted value of the set of parameters with a predefined threshold range, wherein the threshold range is defined by an upper limit value and a lower limit value of the set of parameters,wherein if the extracted value of the set of parameters fails to intermediate the predefined threshold range then an alert signal is generated indicative of a faulty broadcasting unit.

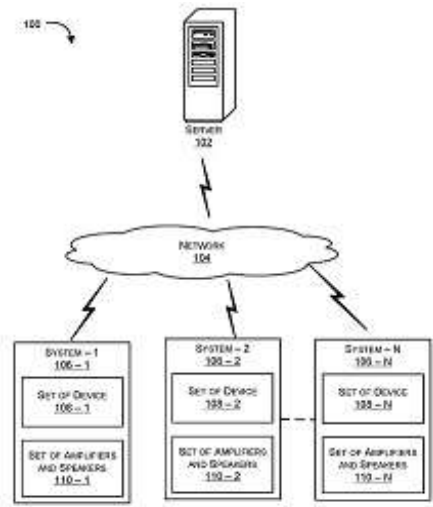


FIG. 1

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : RICE TRANSPLANTER MACHINE

(51) International classification :A01C0011000000,  
A01C0011020000,  
F03G0007100000,  
F02B0075020000,  
H02K0053000000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Maharashtra, India Maharashtra India

(72)Name of Inventor :

**1)Subhash Namdeo Waghmare****2)Nischal Parshuram Mungle****3)Gajanan Bhauraoji Patil****4)Sunil V. Prayagi****5)Archana Nischak Mungle**

(57) Abstract :

The present invention relates to a rice transplanter machine. The object is to provide small, cost effective and portable type transplanter machine. When the rice transplanter moves forward the ground wheels get rotate. The wheels are provided with the fins. Then larger sprocket is provided on the same shaft with the ground wheels and hence at the same time sprocket will also rotate. As the power gets transmitted to the smaller sprocket, it rotates. The speed is increased from driver to drive shaft as 3:1 bar linkage is used so that it will oscillate for certain angle. On the same shaft planting finger is fixed through the four finger oscillate; it pick the rice plant from the tray and plant in mud. Also it should pick during the downward motion only. Following invention is described in detail with the help of Figure 1 of sheet 1 showing rice transplanter.

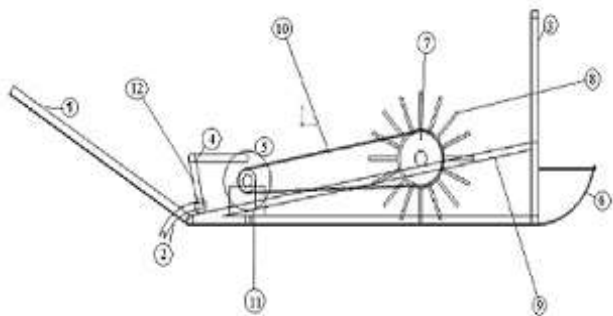


Figure 1

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : METHOD FOR NEXTGEN MISSION CRITICAL NETWORKS TO DETERMINE LOCATION OF TETRA NETWORK DEVICES

(51) International classification	:H04W0004100000, H04L0029060000, H04W0084080000, H04W0004020000, H04W0004080000	(71)Name of Applicant : <b>1)Tata Consultancy Services Limited</b> Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai 400021 Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SAVE, Abhijit Shaileshchandra</b>
(33) Name of priority country	:NA	<b>2)THAKUR, Mayur Gajanan</b>
(86) International Application No	:NA	<b>3)ANTO, Benfy</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Applications such as interworking between mission critical push-to-talk (MCPTT) and terrestrial trunked radio (TETRA) networks is not feasible due to absence of vendor-independent protocol for location information exchange between the MCPTT and TETRA networks. The disclosure herein generally relates to telecommunication networks, and, more particularly, to a method and a network for location information exchange between the MCPTT and TETRA networks. Protocols are defined for facilitating location information exchange between a MCPTT server and a TETRA location server, for various triggers including Periodic, CellChange, Immediate Request, PowerOn, and EnterService. In the event of any of these triggers, an Interworking Module (IM) situated between the MCPTT server and the TETRA location server performs mapping between Session Initiation Protocol (SIP) messages from the MCPTT and Location Information Protocol (LIP) messages from the TETRA location server to facilitate the location information exchange between the MCPTT server and the TETRA location server. [To be published with FIG. 2]

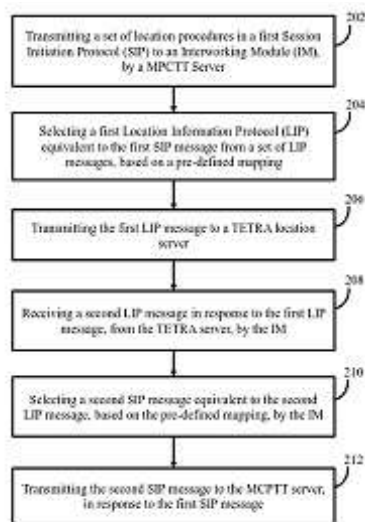


FIG. 2

No. of Pages : 41 No. of Claims : 16

(54) Title of the invention : SYSTEM, METHOD, AND RAILWAY VEHICLE FOR MONITORING A CONTACT WIRE OF AN OVERHEAD POWER SUPPLY LINE

(51) International classification :B61L0003000000,  
B61L0027000000,  
B61L0003120000,  
H05K0001160000,  
B60M0001280000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)ALSTOM TRANSPORT TECHNOLOGIES**  
Address of Applicant :48 rue Albert Dhalenne, 93400 SAINT-OUEN-SUR-SEINE, France  
(72)**Name of Inventor :**  
**1)SURESH, Praveen**  
**2)GANESAN, Muniandi**

(57) Abstract :

A control system (150) and method (200) for monitoring a contact wire (101) of an overhead power supplying line (100) installed along an associated railway line (105), wherein one or more sensors (1), suitable to be mounted on board of a railway vehicle (110), are adapted to provide to a control and processing unit (50) first signals (Sdet) indicative of one or more corresponding parameters (H, D, S) of the contact wire (101) while the railway vehicle (110) is travelling along the railway line (105). One or more devices (40) are arranged to provide to the control and processing unit (50) second signals (SP) suitable for calculating a position (P) of the railway vehicle (110) along the railway line (105). The control and processing unit (50) is configured for calculating: - based on at least the first signals (Sdet) provided via the one or more sensors (1), one or more actual values for said one or more parameters (H, D, S) of the contact wire (101); and - based on said second signals (SP) received from the one or more devices (40) the actual position (Pa) of the railway vehicle (110) along the railway line (105) at which said actual values for said one or more parameters (H, D, S) of the contact wire (101) have been calculated. The present invention encompasses also a related railway vehicle (110). Figure: 1

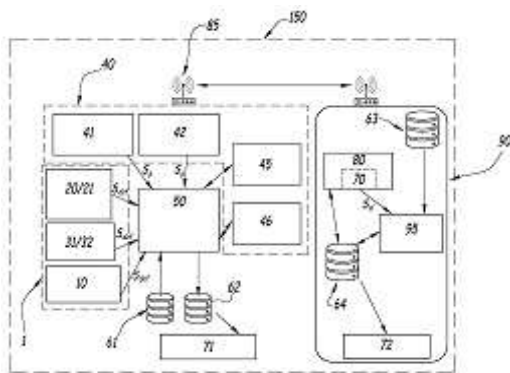


FIG.1

No. of Pages : 30 No. of Claims : 15



(54) Title of the invention : A METHOD OF IMPROVING METAL RECOVERY FROM DISCARDED SLAG.

(51) International classification	:C22B0015000000, B22D0043000000, F27D0025000000, C22B0011080000, C22B0003240000	(71)Name of Applicant : <b>1)Aditya Birla Science and Technology Company Private Limited</b> Address of Applicant :Plot No. 1 & 1-A/1, MIDC Taloja, Taluka Panvel, Dist. Raigad- 410208, Navi Mumbai, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Bhavin Desai</b>
(33) Name of priority country	:NA	<b>2)Lakshmikanth Reddy</b>
(86) International Application No	:NA	<b>3)Chandrakala Kari</b>
Filing Date	:NA	<b>4)Kiran Bhor</b>
(87) International Publication No	: NA	<b>5)Jogesh Mankar</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Vilas Tathavadkar</b>
Filing Date	:NA	<b>7)Viram Mithapara</b>
(62) Divisional to Application Number	:NA	<b>8)Sandeep Rehani</b>
Filing Date	:NA	<b>9)Kaushik Vakil</b>
		<b>10)Sokkuraj Kananand</b>

(57) Abstract :

ABSTRACT A METHOD OF IMPROVING METAL RECOVERY FROM DISCARDED SLAG Provided herein is a method for improving recovery of copper from slag in a slag cleaning furnace (SCF), comprising: (a) charging said slag cleaning furnace with smelting slag and converter slag (b) contacting said smelting slag and converter slag with a reductant, thereby allowing reduction of said smelting slag and converter slag; (c) separating copper from slag in the form of matte; (d) tapping slag cleaning furnace slag (SCFS) from slag cleaning furnace through said plurality of tap holes; (e) charging of another batch of converter slag through converter slag feed; and (f) charging of reductant from said plurality of bins positioned across periphery of said slag cleaning furnace.

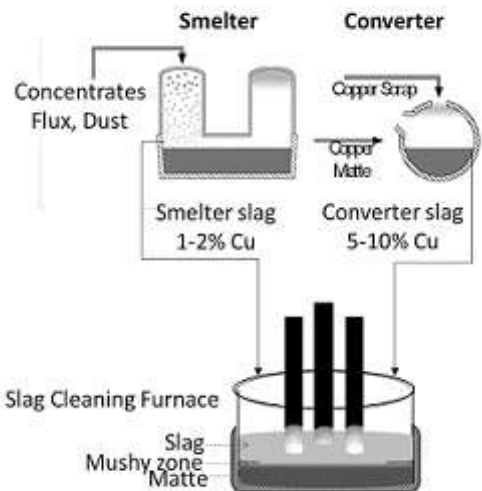


Fig. 1

No. of Pages : 25 No. of Claims : 5

(54) Title of the invention : PATHO-URINAL TO DETECT AND DISPLAY URINE TEST

(51) International classification	:A61B0010000000, G01N0033493000, G06N0020000000, G01N0033680000, A61B0005200000	(71) <b>Name of Applicant :</b> <b>1)PARAG LAXMAN GORE</b> Address of Applicant :182, DADA SMRUTISAVATA NAGAR, OPPOSITE TO AKASHWANI KENDRA, DEVOPUR, DHULE - 424005, MAHARASHTRA. INDIA. Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PARAG LAXMAN GORE</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This innovation is an improved urinal pot with using the machine learning algorithm, the data from the hospital and pathology lab report of a normal healthy person will be used as standard data for comparing urine sample test report parameter, the said system having uses machine learning and artificial intelligence to test and analyze the urine sample during the urine discharge process and towards the end of this process, the urine test report will be shown on display with parameter values and recommendation of the possible diseases if any, the said system may use in common public toilet or at home so that early diagnose of diseases which found by urine test is carried out.

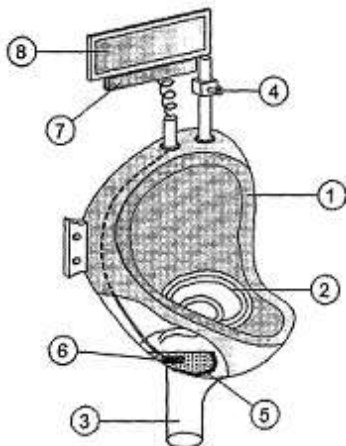


FIGURE 1

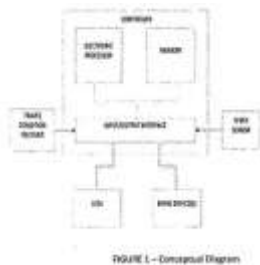
No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : SPEED CONTROL OF VEHICLE USING GPS MODULE AND ACCELERATOR CABLE.

(51) International classification	:G01S0019190000, H04B0001380500, B60W0030140000, B60K0031040000, F16H0059660000	(71)Name of Applicant : <b>1)MR. VIKRAM SUBHASRAO SUVARNKAR</b> Address of Applicant :1334,MARWADI LANE, BASWESHWAR CHOWK, CHAKUR,MAHARASHTRA, INDIA,PIN CODE: 413513 Maharashtra India
(31) Priority Document No	:NA	<b>2)MRS SARIKA ATUL PATIL</b>
(32) Priority Date	:NA	<b>3)MS. AKANSHA SATISH GARG</b>
(33) Name of priority country	:NA	<b>4)MS. SHREYA ARUN KATTI</b>
(86) International Application No	:NA	<b>5)MR. UTSAV ANAND</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)MR. VIKRAM SUBHASRAO SUVARNKAR</b>
(61) Patent of Addition to Application	:NA	<b>2)MRS SARIKA ATUL PATIL</b>
Number	:NA	<b>3)MS. AKANSHA SATISH GARG</b>
Filing Date	:NA	<b>4)MS. SHREYA ARUN KATTI</b>
(62) Divisional to Application Number	:NA	<b>5)MR. UTSAV ANAND</b>
Filing Date	:NA	

(57) Abstract :

According to the invention, the system is provided with a GPS Module, a controller, stepper motor, and accelerator cable. The GPS Module will give the location of the vehicle i.e. whether it is on national highway or on a state road. The data that will be received by the GPS Module will be given to the controller and according to that the speed for the vehicle will be set. The accelerator cable will be given a fixed position. The speed of the vehicle will not go beyond the set speed. The position of the accelerator cable will be fixed with the help of the stepper motor.



No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921051734 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

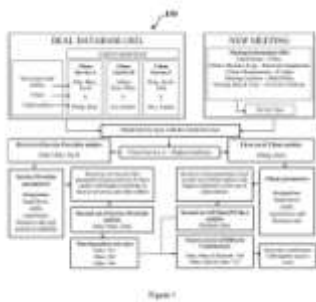
(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND SYSTEM FOR IDENTIFYING AT LEAST A PAIR OF ENTITIES FOR A MEETING

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0413140000, C07D0263320000	(71) <b>Name of Applicant :</b> <b>1)ZENSAR TECHNOLOGIES LIMITED</b> Address of Applicant :Zensar knowledge park, Plot # 4, MIDC Kharadi, off Nagar road Pune Maharashtra India 411014 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sandeep Kishore</b>
(33) Name of priority country	:NA	<b>2)Hari Eswar S M</b>
(86) International Application No	:NA	<b>3)Aishwarya Chaurasia</b>
Filing Date	:NA	<b>4)Richa Sawhney</b>
(87) International Publication No	: NA	<b>5)Shree Krishna Somani</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a system and method for identifying entities from a service provider side and a client side for a meeting. The system identifies a client service having a highest similarity score with the service type required by the client. It then identifies, a first set of service provider and client entities. It further identifies a second set of service provider and client entities based on a plurality of service provider and client parameters respectively such that the second set of service provider and client entities have a highest similarity score vis- -vis the first set of service provider and client entities respectively. Further, it generates, based on a set of predicted time dependent win-ratios, one or more combinations comprising at least a pair of entities. Each combination is assigned with a success score and at least one combination is selected based on the success score. [Figure 1]



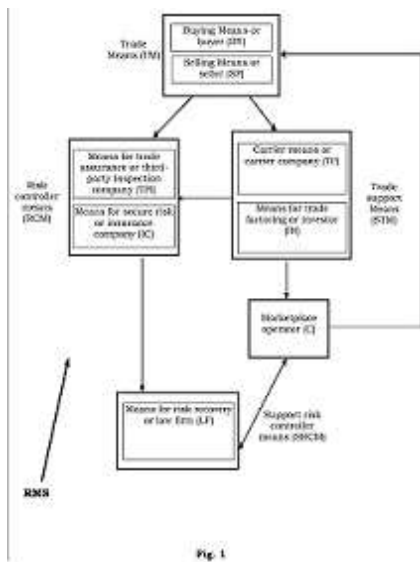
No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : THE PRESENT INVENTION RELATES TO ONLINE BUSINESS-TO-BUSINESS MARKETPLACE TRADE RISK MANAGEMENT PLATFORM. PARTICULARLY, IT IS RELATED TO ONLINE MARKETPLACE

(51) International classification	:G06Q0030060000, G06Q0040080000, G06Q0040040000, G06Q0040020000, G06Q0040060000	(71)Name of Applicant : <b>1)TANK JANVI RAMESHBHAI</b> Address of Applicant :C-65, INDRAVIHAR SOCIETY, OPP. SURDHARA SOCIETY, NIKOL ROAD, T B NAGAR, AHMEDABAD Gujarat India <b>2)AJITKUMAR MAGANBHAI TANK</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)TANK JANVI RAMESHBHAI</b> <b>2)AJITKUMAR MAGANBHAI TANK</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to online business-to-business marketplace trade risk management platform which controls risks involved in buying and selling of goods and services by securing end-to-end trade deals and further it allows real time insured trade credit transaction factoring opportunity to investors by financing trade deals.



No. of Pages : 39 No. of Claims : 13

(54) Title of the invention : AN APPARATUS AND A METHOD FOR MEASURING TENSION

(51) International classification	:B65G0043020000, B65G0023440000, A63B0021000000, B65B0005100000, A63B0071060000	(71) <b>Name of Applicant :</b> <b>1)KStudio Solutions Pvt. Ltd.</b> Address of Applicant :World Trade Center, Tower 2, 802, Fountain Road, Kharadi, Pune 411014, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SAWANT, Chaitali</b>
(33) Name of priority country	:NA	<b>2)DE, Jyotiraman</b>
(86) International Application No	:NA	<b>3)ANTAO, Ralph</b>
Filing Date	:NA	<b>4)PATIL, Akash</b>
(87) International Publication No	: NA	<b>5)KALYANI, Viraj</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus and a method for measure tension for a belt are disclosed. The apparatus includes a clamping unit adapted to clamp the belt. The clamping unit includes a plurality of guiding pins adapted to be moved between a first position and a second position. The clamping unit includes a lever coupled to the plurality of guiding pins and adapted to move the plurality of pins between the first position and the second position. The apparatus includes a sensing unit having a sensing pin adapted to sense a resistance force of the belt. The sensing pin senses the resistance force when the lever is operated to move the plurality of guiding pins at the second position. The apparatus includes a controlling unit configured to measure a value of tension of the belt based on the resistance force and a set of characteristics associated with the belt.



Figure 1

No. of Pages : 25 No. of Claims : 17

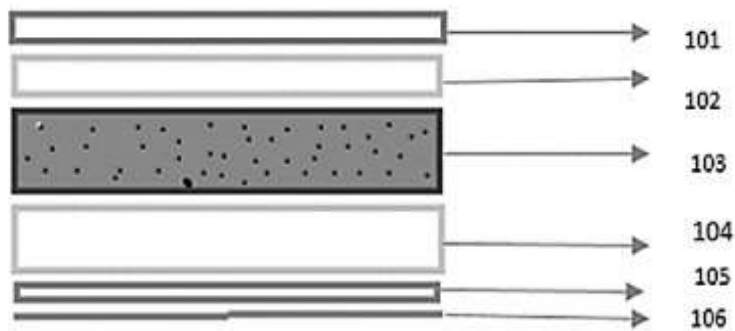
(54) Title of the invention : BIODEGRADABLE SANITARY ARTICLE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Ramnarain Ruia Autonomous College, Mumbai</b> Address of Applicant :L. N. Road, Matunga East, Mumbai 400019 Maharashtra, India Maharashtra India</p> <p><b>2)Sachin Palekar</b></p> <p><b>3)Revati Gajendragadkar</b></p> <p><b>4)Mithila Joshi</b></p> <p><b>5)Arpita Chitre</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Sachin Palekar</b></p> <p><b>2)Revati Gajendragadkar</b></p> <p><b>3)Mithila Joshi</b></p> <p><b>4)Arpita Chitre</b></p>
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(57) Abstract :

ABSTRACT [036] The present invention relates to a multi-layered biodegradable absorbent article and process for production thereof, more particularly to a biodegradable sanitary article for use as disposable diapers, adult incontinent pads, feminine hygiene products such as sanitary napkins and panty liners. Fig. 1

Figure 1



No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921051876 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR IDENTIFICATION AND PROFILING ADVERSE EVENTS

(51) International classification :G06N0003040000,  
G06F0016360000,  
G06F0017270000,  
H04N0021840000,  
G06F0016330000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai - 400021, Maharashtra, India Maharashtra India

(72)Name of Inventor :

**1)DEY, Lipika**

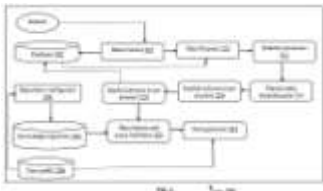
**2)VERMA, Ishan**

**3)BHADANI, Saumya**

**4)SHAKIR, Mohammad**

(57) Abstract :

With the proliferation of data and documents available on the internet and other information sources, analysis of adverse events poses a serious technical challenge on account of associated data volume and variety. This disclosure relates generally to identification and profiling of adverse events. By receiving a set of articles from a plurality of data sources and utilizing a series of Natural Language Processors, NLP techniques are employed to identify implicit and explicit adverse events. Entity statistics and sentiment extraction and analysis is performed. An ontology based adverse event identification framework is proposed for identification and profiling of implicit adverse event. An attention based bi-directional long short term memory network for adverse event identification and classification is proposed.



No. of Pages : 34 No. of Claims : 16



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921051884 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

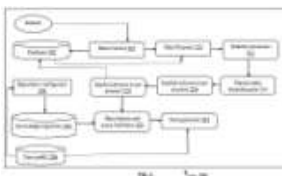
(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND DEVICE TO CONTINUOUSLY MONITOR AND DETERMINE CARDIAC HEALTH OF A PERSON

(51) International classification	:A61B0005000000, A61B0005021000, A61B0005045200, A61B0005040400, A61B0005024000	(71) <b>Name of Applicant :</b> <b>1)Tata Consultancy Services Limited</b> Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai 400021 Maharashtra India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)JAYARAMAN, Srinivasan</b>
(33) Name of priority country	:NA	<b>2)SHANMUKHAPP, Raghu Thopenahalli</b>
(86) International Application No	:NA	<b>3)KULKARNI, Harshad</b>
Filing Date	:NA	<b>4)SAHADEVAN, Joshin</b>
(87) International Publication No	: NA	<b>5)KADNI, Praveen Sureshrao</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Electrocardiogram (ECG) system has been adopted for almost a century to diagnose cardiovascular disease (CVD). Monitoring the cardiac signal provides an insight of CVD and function as an aiding tool for physician towards early detection of cardiac events. A method and wearable device to continuously monitor and determine the cardiac health of the person have been provided. The device is configured to monitor the cardiac system continuously in a partially or fully non-contact manner. The non-contact sensing is achieved by using a hybrid sensing technique. The device consists of a pair of electrodes, one electrode could be a contact sensor that will be touching the skin and the second sensor could be a non-contact sensor. The device facilitates to alert cardiac health monitoring locally or remote location. The device monitors cardiac health in the work environment rather than inducing stress among the participants by making them undergo a stress test. To be published with FIG.1



No. of Pages : 26 No. of Claims : 15

(54) Title of the invention : MULTI-AGENT DEEP REINFORCEMENT LEARNING FOR DYNAMICALLY CONTROLLING ELECTRICAL EQUIPMENT IN BUILDINGS

(51) International classification	:G05B0013020000, G05B0013040000, G06N0003080000, B60W0040090000, G06N0003040000	(71)Name of Applicant : <b>1)Tata Consultancy Services Limited</b> Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai 400021 Maharashtra India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)NAGARATHINAM, Srinarayana</b>
(32) Priority Date	:NA	<b>2)ACHAR, Avinash</b>
(33) Name of priority country	:NA	<b>3)VASAN, Arunchandar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Reinforcement Learning agent interacting with a real-world building to determine optimal policy may not be viable due to comfort constraints. Embodiments of the present disclosure provide multi-deep agent RL for dynamically controlling electrical equipment in buildings, wherein a simulation model is generated using design specification of (i) controllable electrical equipment (or subsystem) and (ii) building. Each RL agent is trained using simulation model and deployed in the subsystem. Reward function for each subsystem includes some portion of reward from other subsystem(s). Based on reward function of each RL agent, each RL agent learns an optimal control parameter during execution of RL agent in subsystem. Further, a global optimal control parameter list is generated using the optimal control parameter. The control parameters in the global optimal control parameters list are fine-tuned to improve subsystem<sup>TM</sup>s performance. Information on fine-tuning parameters of the subsystem and reward function are used for training RL agents. [To be published with FIG. 4]

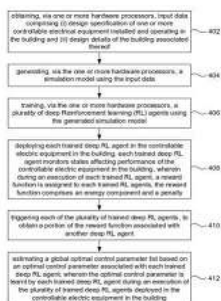


FIG. 4

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921051886 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

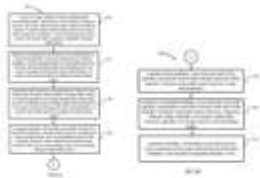
(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND SYSTEM FOR LEARNING TO MAP BETWEEN SCHEMAS USING KNOWLEDGE GRAPH

(51) International classification	:H04L0029080000, B64G0001360000, H04N0021274300, H04N0013100000, G09B0005140000	(71) <b>Name of Applicant :</b> <b>1)Tata Consultancy Services Limited</b> Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai 400021 Maharashtra India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHATTACHARYA, Indrajit</b>
(33) Name of priority country	:NA	<b>2)SHROFF, Gautam</b>
(86) International Application No	:NA	<b>3)DASGUPTA, Tirthankar</b>
Filing Date	:NA	<b>4)PANJA, Arnab</b>
(87) International Publication No	: NA	<b>5)CHAKRABORTY, Snehasish</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MUKHERJEE, Debayan</b>
Filing Date	:NA	<b>7)BANDYOPADHYAY, Atreya</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Data migration is a crucial task for data management across industries. Conventional schema mapping requires expert<sup>TM</sup>s intervention and accuracy is less in automated schema mapping due to unclear and complex field names. The present disclosure presents an accurate schema mapping method. Initially, a logical field name is identified for each field name of a source schema and a target schema based on a knowledge graph. Further, a plurality of potential matches between source field names and target field names are filtered based on semantic data type. A data similarity score and conceptual similarity score are computed from the plurality of potential matches using knowledge graph. Further, the data similarity score and the conceptual similarity score are combined to decide the top scoring matches between the source field names and the target field names. The knowledge graph, is updated dynamically via learning from historically mapped fields between source and target schema. [To be published with FIG. 3A and 3B]



No. of Pages : 29 No. of Claims : 8

(54) Title of the invention : MODEL DRIVEN SYSTEM AND METHOD FOR DEVELOPMENT OF MICRO SERVICE APPLICATIONS

(51) International classification	:H04L0029080000, H04N0021274300, B64G0001360000, H04N0001000000, C07D0263320000	(71)Name of Applicant : <b>1)Tata Consultancy Services Limited</b> Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai 400021 Maharashtra India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)SIRAM, Subbarao</b>
(32) Priority Date	:NA	<b>2)SABDE, Ashutosh Damodar</b>
(33) Name of priority country	:NA	<b>3)AVADHANULA, Yugesh</b>
(86) International Application No	:NA	<b>4)JOSHI, Jyoti</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Conventional methods for application development are rigid, complex, costly and ineffective in implementing new and changing technologies. The embodiments herein provide a model driven system and method for development of micro service applications. A set of user interface components and one or more domain components for a plurality of micro services designs of a plurality of applications pertaining to one or more technologies are modeled and validated. Further, a plurality of codes are generated according to the one or more modeled domain components of the plurality of micro services designs of the plurality of applications satisfying one or more requirements. The plurality of generated codes are further customized and validated to ensure design and code consistency. The plurality of customized codes are further containerized to provide a plurality of containerized applications which are deployed into a target deployment environment for execution using a plurality of configuration files. [To be published with FIG. 2]

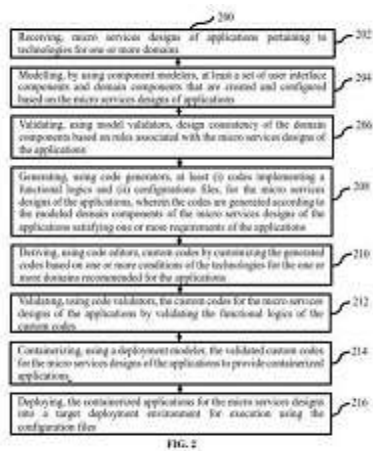


FIG. 2

No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : A MECHANISM AND A DEVICE FOR IMPARTING MOVEMENT TO WRIST AND FINGERS OF A SUBJECT •

(51) International classification :A61H0001020000,  
A63B0023160000,  
A61F0005010000,  
A61F0002580000,  
A61F0002500000

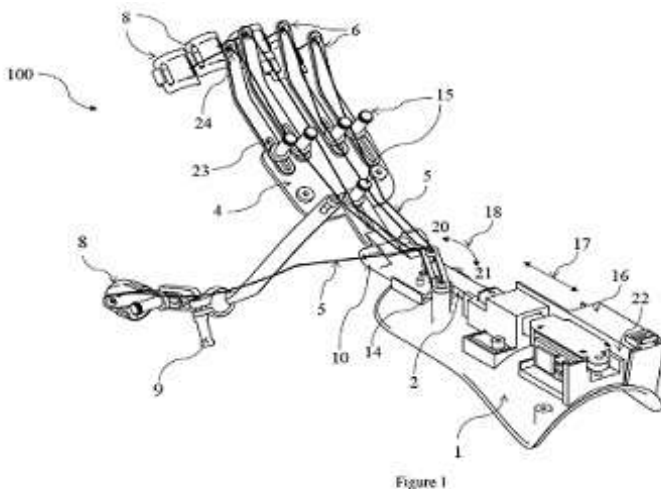
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :A 603 Himali Towers, Shyamal Crossroads, Satellite, Ahmedabad -380015 Gujarat India

(72)Name of Inventor :  
**1)Chintan Vinod Shinde**  
**2)Rashmikant Maheshchandra Shah**  
**3)Kishan Amin**  
**4)Prem Shah**

## (57) Abstract :

The present disclosure relates to a device (100) for supporting and imparting movement to wrist and fingers of a subject. The device (100) includes a forearm base (1), a dorsal hand base (4) pivotally coupled to the forearm base (1) and a mechanism for imparting movement. The mechanism includes a plurality of adjustable fingertip sleeves (8) each supporting at least one finger of the subject. At least one guide member (5) is coupled to each of the adjustable fingertip sleeves (8). An actuator (2) is supported by a base (11) and coupled to each of the at least one guide member (5) through a lever (14). The actuator (2) is configured to displace the lever (14) between a first position (20) and a second position (21), to selectively displace each of the at least one guide member (5) between a relaxed condition and a tightened condition, respectively. Figure 1



No. of Pages : 38 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921051915 A

(19) INDIA

(22) Date of filing of Application :14/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN ANTIMICROBIAL WOOD POLISH FORMULATION FROM CURCUMIN INDUSTRY WASTE OLEORESIN

(51) International classification	:A61K0031120000, A61Q0017000000, G06Q0030020000, C13K0013000000, G06Q0040080000	(71) <b>Name of Applicant :</b> <b>1)INSTITUTE OF CHEMICAL TECHNOLOGY</b> Address of Applicant :INSTITUTE OF CHEMICAL TECHNOLOGY, NATHALAL PAREKH MARG, MATUNGA (EAST), MUMBAI-400019, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VIRENDRA KISHAN RATHOD</b>
(33) Name of priority country	:NA	<b>2)ANILKUMAR RAMMILAN GUPTA</b>
(86) International Application No	:NA	<b>3)SUJATA SHRIKANT PATIL</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

AN ANTIMICROBIAL WOOD POLISH FORMULATION FROM CURCUMIN INDUSTRY WASTE OLEORESIN The present invention relates generally to anti-microbial wood polish composition and method of preparation thereof. More specifically, the present invention provides a cost-effective formulation of wood polish composition having anti-microbial as well as anti-fungal activity. The present invention provides a stable composition of curcumin industry waste (i.e. oleoresin) into the antimicrobial wood polish. According to present invention, the anti-microbial wood polish formulation comprising of Oleoresin in the range from 50 to 70 wt%, metal salts in the range from 3 to 5wt%, solvent in the range from 10 to 40wt% and drying oil in the range from 5 to 12wt%. The formulation is very economic as major raw material is industrial waste (no value) and converted into stable value added products. The present invention also protects the environment by means of waste management processing.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : NEURAL NETWORK BASED FOREGROUND MODEL ANALYSIS SYSTEM FOR REAL-TIME OBJECT DETECTION AND TRACKING

(51) International classification	:G06K0009000000, G06K0009620000, G06K0009320000, H04N0007180000, G06T0007292000	(71)Name of Applicant : <b>1)Kishor G Dhake</b> Address of Applicant :201, Vyankatesh Apartment, Near Durga Provision, Renuka Vihar, Amravati - 444605 Maharashtra India <b>2)Dr. Surendra S. Dalu</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Kishor G Dhake</b> <b>2)Dr. Surendra S. Dalu</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The objective of this invention is to disclose object detection and tracking system using foreground model analysis based on neural network. Existing systems as discussed in prior art only detect specified objects or recognize those objects for taking intended actions. The disclosed invention detects objects in videos, the new objects in each frame get detected, and the detected objects are labeled with proper label. The disclosed invention dynamically tracks the new objects in videos or videos captured through cameras and assigns annotation to the detected objects. A neural network based foreground analysis model is invented for detecting, tracking and classifying objects in video or live video captured through video cameras. The disclosed neural network based approach assigns labels to multiple objects detected in a video. Depending on type of object detected it can assign labels from various classes.

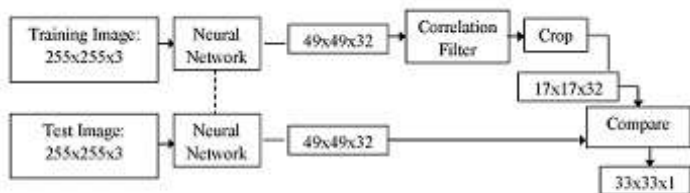


Figure 1

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052016 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PHARMACEUTICAL COMPOSITION OF CYCLOOXYGENASE 2 INHIBITORS •

(51) International classification	:A61K0031600000, A61K0038140000, A61K0031545000, A61K0031704000, A61K0031430000	(71)Name of Applicant : <b>1)Themis Medicare Limited</b> Address of Applicant :11/12, Udyog Nagar, S.V. Road, Goregaon West, Mumbai - 400104, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)PATEL, Dinesh Shantilal</b>
(33) Name of priority country	:NA	<b>2)PATEL, Sachin Dinesh</b>
(86) International Application No	:NA	<b>3)KURANI, Shashikant Prabhudas</b>
Filing Date	:NA	<b>4)SATHE, Milind Vinayak</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT PHARMACEUTICAL COMPOSITION OF CYCLOOXYGENASE 2 INHIBITORS • Present invention relates to aqueous compositions comprising cyclooxygenase-2 (COX-2) inhibitors, preferably Etoricoxib or Celecoxib or Valdecoxib or Paracoxib or salts thereof at least two solubilizers at 4.2% w/v to 19% w/v, preferably between 4.2% w/v to 18% w/v having viscosity in range of 1.0 cps to 3 cps, wherein the Etoricoxib and Celecoxib or salts thereof are present in amount ranging from 0.14 mg to 4 mg. The composition is suitable for the parenteral route of administration primarily for ready to dilute and ready to infuse which alternatively can be administered as intramuscular, intraarterial, intraocular, intraventricular, intravenous routes; also for subcutaneous, cutaneous delivery. The invention further provides a method for preparing the said composition.

No. of Pages : 50 No. of Claims : 27



(54) Title of the invention : METHOD AND SYSTEM FOR FACILITATING SECURE ONLINE TRANSACTIONS

(51) International classification	:G06Q0020380000, G06Q0020120000, G06Q0020320000, G06Q0020400000, G06Q0030020000	(71) <b>Name of Applicant :</b> <b>1)MASTERCARD INTERNATIONAL INCORPORATED</b> Address of Applicant :2000 Purchase Street, Purchase, NY 10577 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Priyanshee Palriwala</b>
(33) Name of priority country	:NA	<b>2)Dinesh Kumar Lal</b>
(86) International Application No	:NA	<b>3)Aditi Garg</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and a system for facilitating secure online transactions are provided. A server detects initialization of an online transaction on a first user device of first user and determines a count of other user devices that are present within a proximity distance of the first user device. When the count of the other user devices exceeds a device threshold count, an urgency level for the online transaction is evaluated by the server based on transaction analysis data. The first user is prompted by the server through the first user device to complete the online transaction at one of a later time-instance using primary information of a payment mode or at a current time-instance using secondary information of the payment mode. The online transaction completed by the first user at one of the current time-instance or the later time-instance is processed by the server.

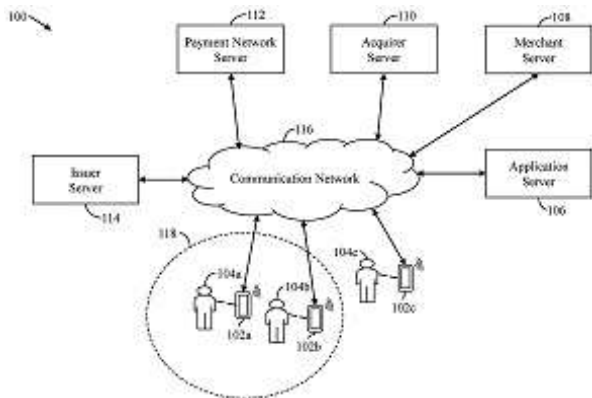


FIG. 1

No. of Pages : 53 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052166 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

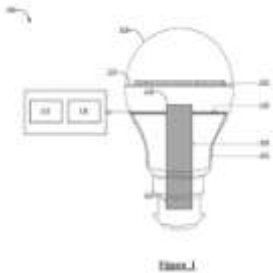
(43) Publication Date : 18/06/2021

(54) Title of the invention : EMERGENCY LIGHT BULB APPARATUS

(51) International classification	:F21S0009020000, F21K0009232000, H02J0009060000, B60Q0001260000, B60Q0001520000	(71) <b>Name of Applicant :</b> <b>1)Panasonic Life Solutions India Private Limited</b> Address of Applicant :3rd Floor, B wing I- Think Techno Campus Pokhran, Road No 2 Thane (West), Thane, Maharashtra 400607, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SEM WAL, Pankaj</b>
(33) Name of priority country	:NA	<b>2)KUMAR, Gaurav</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The emergency light bulb apparatus (100) includes a housing (102), at least one Light Emitting Diode (LED) (106), a rechargeable battery (108) adapted to supply power to the at least one LED (106) in absence of mains power supply and having a first end (110) disposed adjacent to the LED (106) and a second end (112) distal to the first end (110), a sensing unit (114) adapted to detect a risk of failure of the rechargeable battery (108), and a controller (116) in communication with the sensing unit (114) and adapted to control an operational state of the rechargeable battery (108) based on the detected risk. The risk is detected in terms of one of temperature and pressure of the apparatus (100).



No. of Pages : 21 No. of Claims : 11

(54) Title of the invention : SYSTEM AND METHOD FOR RESETTING LATCH IN DC-DC CONVERTERS

(51) International classification :H04L0029080000,  
C07D0417140000,  
C07D0417060000,  
C07D0413140000,  
C07D0263320000

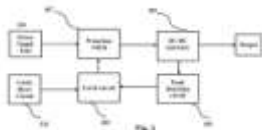
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Address of Applicant :E-5/2 Chakan Industrial Area Phase-III  
M.I.D.C., Nanekarwadi, Tal: Khed Pune India 410501  
Maharashtra India

(72)**Name of Inventor :**  
**1)Dr. Mahabir Prasad**  
**2)Mahesh Jalgaonkar**

(57) Abstract :

In an aspect, the present disclosure relates to a system for resetting electronic latch in DC-DC converter (101). The system (100) may comprise a DC-DC converter (101), a fault detection circuit (103), a latch circuit (105), a protection switch (107) and a latch reset circuit (111). As shown in Fig. 1, the protection switch (107) is placed between a power supply unit (109) and DC-DC converter (101). The latch circuit (105) is connected to the fault detection circuit (103) and the protection circuit (107). The latch circuit (105) protects the DC-DC converter (101) from the momentary faults. The latch reset circuit (111) is connected to the latch circuit (105) and is used for resetting the latch circuit (105) for further use. The reset of the latch circuit (105) may be done by a user by reinserting the ignition key. [Fig. 1]



No. of Pages : 18 No. of Claims : 12

(54) Title of the invention : SYSTEM AND METHOD TO QUANTIFY SUBJECT-SPECIFIC SENTIMENT

(51) International classification :G06F0017270000,  
G10L0015180000,  
H04N0005232000,  
G06K0009620000,  
G06F0003023000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai Maharashtra India 400021 Maharashtra India

(72)**Name of Inventor :**  
**1)GUNTURI, Sitarama Brahmam**  
**2)SURA, Pranavi**  
**3)SINGH, Brajesh**

(57) Abstract :

This disclosure relates to a system and method for quantitative measure of subject specific sentiment analysis of a text input. The text input comprises subjects and objects. The text input is tokenized, and each word of the tokenized text input is tagged based on a part-of-speech (POS) and a universal dependency tag. A universal dependency tag tree is prepared based on dependency tags. Further, the subjects and objects are identified using a subject-verb-object (SVO) detection. The universal dependency tree is analyzed for each identified subject to determine a token dependency of the subject. The identified subject is quantified using a deep learning-based sentiment analyzer and finally a sentiment score is recommended for the subject using a probability score and a class score is assigned to the subject. [To be published with FIG. 3]

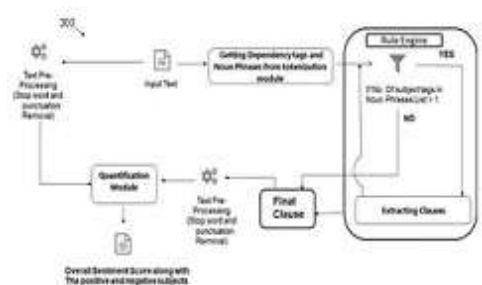


FIG. 3

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052190 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : GRANULATION OF SOFT ELASTOMER

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) <b>Name of Applicant :</b> <b>1)CEAT LIMITED</b> Address of Applicant :RPG HOUSE, 463, Dr. Annie Besant Road, Worli, Mumbai 400 030, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHADRA, Sambhu</b>
(33) Name of priority country	:NA	<b>2)NAIR, Sujith Sasidharan</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a process for obtaining granulated soft elastomer, said process comprising: a) providing a soft elastomer strand in an extruder; b) heating the soft elastomer strand to obtain a heated soft elastomer; c) extruding the heated soft elastomer through a die to obtain an extruded soft elastomer strand; d) pelletizing the extruded soft elastomer strand in an underwater pelletizer to obtain a soft elastomer pellet; and e) contacting the soft elastomer pellet with at least one surfactant to obtain the granulated soft elastomer, wherein heating the soft elastomer strand to obtain the heated soft elastomer is done at a temperature in the range of 70-150°C, and the at least one surfactant has a concentration in the range of 0.1-20%.

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : A COOLING PAD COMPOSITION FOR EVAPORATIVE COOLING SYSTEM

(51) International classification	:A61F0007000000, A61F0007020000, A61F0007100000, A61F0013000000, F24F0006040000	(71)Name of Applicant : <b>1)K. J. Somaiya College of Engineering</b> Address of Applicant :K. J. Somaiya College of Engineering, Vidyanagar, Vidyavihar (E), Mumbai 400077, Maharashtra, INDIA Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. (Mr.) Patil, Kashinath Nimba</b>
(33) Name of priority country	:NA	<b>2)Mr. Shaikh, Muzammil Ahmad</b>
(86) International Application No	:NA	<b>3)Mr. Jain, Raj</b>
Filing Date	:NA	<b>4)Mr. Gurav, Bhimashankar</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In evaporative cooling both water absorption capacity, durability and protection of cooling pad against the fungus and bacteria are very important needs to supply clean, hygienic air with better cooling effect. In current invention the charcoal has been used as the base material and the natural rubber as the flexible bonding agent for the cooling pad to provide these desired effects. Further, it may be added with mammalian hairs to enhance the coefficient of performance. The mammalian hair has tendency of simultaneous longitudinal and transverse expansion when wetted with water. They again shrink to their original shape on being dry. Thus, it develops a breathing effect in the cooling pad. A cooling pad for evaporative cooling system which comprises charcoal, natural rubber with or without mammalian hair are bounded together as a composite material by mixing charcoal, latex of rubber tree and mammalian hair (if added) in presence of rubber crosslinking agent.

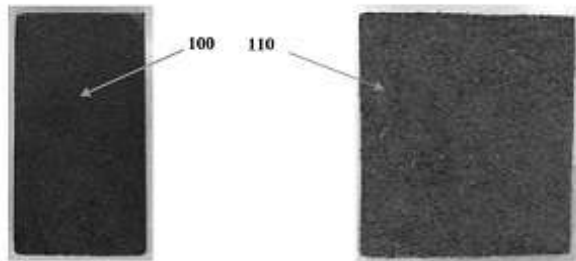


FIGURE 1

No. of Pages : 23 No. of Claims : 12

(54) Title of the invention : A SYSTEM AND A METHOD FOR FACILITATING MEETING CONTENT FOR ATTENDING A MEETING

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0413140000, C07D0263320000	(71) <b>Name of Applicant :</b> <b>1)ZENSAR TECHNOLOGIES LIMITED</b> Address of Applicant :Zensar knowledge park Plot # 4, MIDC, Kharadi, off Nagar road Pune Maharashtra India 411014 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sandeep Kishore</b>
(33) Name of priority country	:NA	<b>2)Hari Eswar S M</b>
(86) International Application No	:NA	<b>3)Aishwarya Chaurasia</b>
Filing Date	:NA	<b>4)Richa Sawhney</b>
(87) International Publication No	: NA	<b>5)Shree Krishna Somani</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system and a method for facilitating meeting content to be referred for attending a meeting. The system receives a current meeting information associated with the meeting. The system computes similarity scores corresponding to a plurality of past meeting information against the current meeting information. The system identifies a past meeting information with highest similarity score and a set of past service provider entities from the past meeting information. The system identifies a past skillset based on a set of past service provider parameters associated with the set of past service provider entities and correlates the past skillset with a current skillset associated with at least one current service provider entity to identify a skill gap, between the past and current skillsets. The system extracts and facilitates meeting content to the at least one current service provider entity for attending the meeting based on the identified skill gap. [Figure 1]



No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : SIGN LANGUAGE COMMUNICATION WITH DUMB AND DEAF PEOPLE

(51) International classification :G09B0021000000,  
G09B0021040000,  
G06F0003048400,  
G06K0009000000,  
G06K0009620000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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MAHARASHTRA, INDIA. email:dipali.dhake@pccoer.in  
Maharashtra India  
**2)MANISHA PRAKASH KAMBLE**  
**3)SANA MUSA PATIL**  
**4)SHRUSHTI SANJAY KUMBHAR**

(72)Name of Inventor :  
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**2)MANISHA PRAKASH KAMBLE**  
**3)SANA MUSA PATIL**  
**4)SHRUSHTI SANJAY KUMBHAR**

(57) Abstract :

Every day we see many people who are facing illness like deaf, dumb and blind etc, they face difficulty to interact with others, previously developed techniques are all sensors based and they didnt give the general solution and this system explains a new technique of virtual talking without sensors, an image processing technique called Histogram of gradient (HOG) along with artificial neural network (ANN) has been used to train the System and web Camera is used to take the image of different gestures and that will be used as input to the Matlab and the software will recognizes the image and identifies the cores pending voice output which is played using voice replay kit, this project explains two way communications between the deaf, dumb and normal people which means the proposed system is capable of converting the sign language to text and voice.

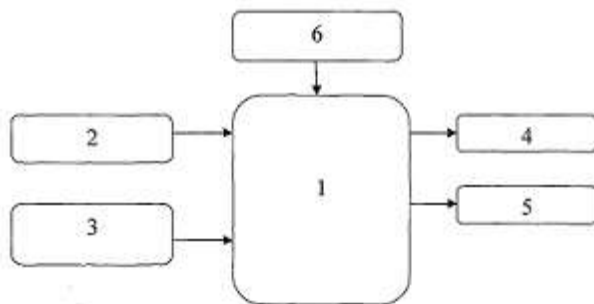


FIGURE.I

No. of Pages : 9 No. of Claims : 5



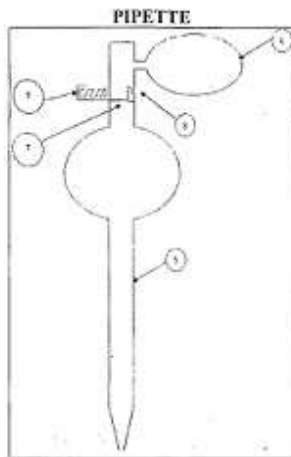


(54) Title of the invention : INNOVATIVE PIPETTE FOR SUCTION OF LARGE VOLUME OF LIQUID WITHOUT FORMATION OF BUBBLES

(51) International classification	:B01L0003020000, G01N0035100000, A23L0002540000, A61J0011000000, A61K0008460000	(71) <b>Name of Applicant :</b> <b>1)MAYURA MILIND YEOLE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MAYURA MILIND YEOLE</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The proposed invention is based on suction of fluid by pipette with the help of pushing switch & suction bulb, which can avoid the bubble formation due to air voids. Generally for having particular quantity of liquid any one need to suck the pipette by mouth, maximum time the chemical or liquid sucked to be entered inside the mouth, which is dangerous for human health, to overcome this problem the concept is proposed.



FIGURE

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : INTERNAL BYPASS MECHANISM FOR FEED WATER HEATER

(51) International classification	:F22D0001320000, F22B0001020000, B01D0029520000, F22B0037180000, F22B0037220000	(71) <b>Name of Applicant :</b> <b>1)Larsen &amp; Toubro Limited</b> Address of Applicant :L&T House, Ballard Estate, Mumbai - 400 001, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Anil Kumar Modi</b>
(33) Name of priority country	:NA	<b>2)Murur Venkatesh</b>
(86) International Application No	:NA	<b>3)Vaibhav Munde</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is an internal bypass mechanism for feed water heater (200), comprising a plurality of tubes (10) secured inside a shell (12) connected to a channel(40) through tube sheet (11) at one end.A tube sheet (11) secured in between the shell (12) and the channel (40) receives the feed water from inlet nozzle (20) connected to the channel. A pass partition plate (50) mounted inside the channel (40) divides the channel (40) into an inlet chamber (42) and an outlet chamber (44). The shell (12) receives steam through a nozzle and preheats the feed water inside the tubes (10). The pass partition plate (50) having an orifice (100) mounted with a disk (110) of erosion resistant metal which is bolted with a cover (80) and ensures full or partial bypass of the feed water therethrough. This eliminates the need of changes in the existing feed water piping and addition of bypass valves. Figure 4

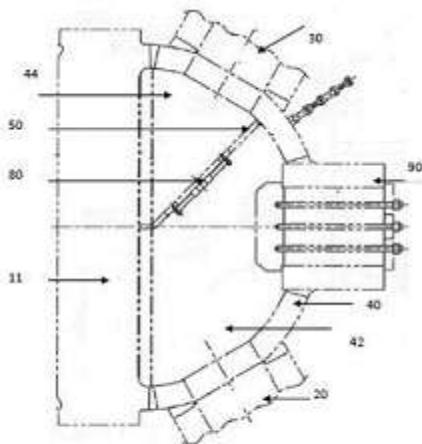


Figure 4

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : OBSTACLE DETECTION WITH MOVABLE MOUNTED CAMERA FOR MOBILE PHONE

(51) International classification	:G03B0017560000, H04N0005225000, G06K0009000000, H04M0001020000, G03B0017140000	(71)Name of Applicant : <b>1)SONALI SAGARMAL LUNAWAT</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)MADHURI HUSAN BADOLE</b>
(32) Priority Date	:NA	<b>3)ANUJA TANAJI BHONDVE</b>
(33) Name of priority country	:NA	<b>4)SHILPA RAJESH KALE</b>
(86) International Application No	:NA	<b>5)SHWETA ASHISH KOPARDE</b>
Filing Date	:NA	<b>6)OMPRIYA VITTHALRAO KALE</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)SONALI SAGARMAL LUNAWAT</b>
Filing Date	:NA	<b>2)MADHURI HUSAN BADOLE</b>
(62) Divisional to Application Number	:NA	<b>3)ANUJA TANAJI BHONDVE</b>
Filing Date	:NA	<b>4)SHILPA RAJESH KALE</b>
		<b>5)SHWETA ASHISH KOPARDE</b>
		<b>6)OMPRIYA VITTHALRAO KALE</b>

## (57) Abstract :

A mobile device (1) without integrated camera is required. A mount (2) for attaching the camera is connect to mobile device (1) where a mount is having a rotating system (3) to move only camera in 360 degree where in on the top on mount (2) camera (4) is placed with the sensing capacity to make decision based to rotate and a mobile (1) cognitively changes its position to the front side and starts detecting obstacles when user is walking where through algorithm the system gives instruction to rotating mechanism to move automatic when person is walking and the camera senses the obstacles and make aware user to take avoid accidents. Thus, this invention increases camera usage in mobile phones.

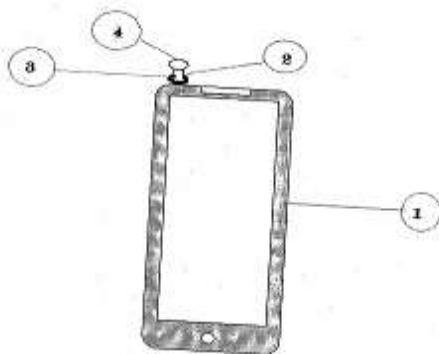


FIGURE - 1

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052227 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM FOR SELF COOLING FOR FOUR WHEELER

(51) International classification	:B60H0001000000, B60H0001320000, F24F0005000000, A42B0003280000, F23N0005260000	(71)Name of Applicant : <b>1)MADHURI HUSAN BADOLE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)SONALI SAGARMAL LUNAWAT</b>
(32) Priority Date	:NA	<b>3)ANUJA TANAJI BHONDVE</b>
(33) Name of priority country	:NA	<b>4)SHWETA ASHISH KOPARDE</b>
(86) International Application No	:NA	<b>5)SHILPA RAJESH KALE</b>
Filing Date	:NA	<b>6)OMPRIYA VITTHALRAO KALE</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)MADHURI HUSAN BADOLE</b>
Filing Date	:NA	<b>2)SONALI SAGARMAL LUNAWAT</b>
(62) Divisional to Application Number	:NA	<b>3)ANUJA TANAJI BHONDVE</b>
Filing Date	:NA	<b>4)SHWETA ASHISH KOPARDE</b>
		<b>5)SHILPA RAJESH KALE</b>
		<b>6)OMPRIYA VITTHALRAO KALE</b>

(57) Abstract :

Vehicle (1) when parked in open areas in switched off mode specially in summer, inner temperature of vehicle (1) is getting very hot so no one wish to directly enter into the vehicle (1) so air conditioning is implanted in vehicle (1) but it works only when the vehicle (1) is in switched on mode which require battery supply air conditioning can make the inner temperature of car cool but for making hot temperature cool air conditioning will require some time after that it will make inner temperature cool. When the person enter and will start the inbuilt cooling system it will require some time to make inner temperature cool so the said system will save our time as well as person fill fresh when he entered inside the with cool temperature. Said system consist of the peltier module with peltier sheet (2) which is mounted inside on the roof of the car, when the car is parked in a open area where shed is not provided and inner temperature become very hot so no one want to enter immediately inside the car until the temperature becomes cool. So the peltier sheet (2) will convert hot temperature into cool temperature. Said system consist of solar panel that takes solar energy and provide power supply to the peltier sheet (2) to work on the principal of converting hot temperature into cool temperature.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052232 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

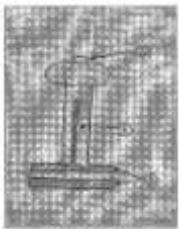
(43) Publication Date : 18/06/2021

(54) Title of the invention : UID METAL EMBOSSED NAME STAMPS

(51) International classification	:B41K0001400000, B41K0001360000, B41K0001560000, B41K0001540000, B41K0001000000	(71) <b>Name of Applicant :</b> <b>1)ANUJA TANAJI BHONDE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	<b>2)SHILPA RAJESH KALE</b>
(32) Priority Date	:NA	<b>3)SONALI SAGARMAL LUNAWAT</b>
(33) Name of priority country	:NA	<b>4)MADHURI HASAN BADOLE</b>
(86) International Application No	:NA	<b>5)SHWETA ASHISH KOPARDE</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)ANUJA TANAJI BHONDVE</b>
(61) Patent of Addition to Application	:NA	<b>2)SHILPA RAJESH KALE</b>
Number	:NA	<b>3)SONALI SAGARMAL LUNAWAT</b>
Filing Date	:NA	<b>4)MADHURI HASAN BADOLE</b>
(62) Divisional to Application Number	:NA	<b>5)SHWETA ASHISH KOPARDE</b>
Filing Date	:NA	

(57) Abstract :

In an earlier stamp machine, it was necessary to ink stamp every time when you need to stamp the paper or documents, but if the documents were high, the work would be very difficult, In previous days, the stamp machine was used only for the signature of one person, you cannot use the same machine for different signatures, you need different stamps for each person and that will be wastage of money as well as space to store, To solve this problem, we have designed a stamp machine, it has an ink indicator, it shows the filled ink and we can use it for differential signature in the machine, At the time of signing each person, he can use these same stamp machines by inserting his own sign plate, Said system consist of two flash stamp pad cushion rubber stamp plate material that has dispenser hollow space to get the ink from ink box



No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : ROLLER MECHANISM TO CLEAN DUSTER AND WET SPONGE FOR CLEANING THE BLACK BOARD

(51) International classification :A47L0013380000,  
B25C0001040000,  
A46B0005000000,  
F24F0005000000,  
B32B0037220000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)DEEPSHIKHA SHRIVASTAVA**  
**3)PRIYA BALKRISHNA OGHE**

(72)Name of Inventor :  
**1)MANISHA HEMANT DESHPANDE**  
**2)DEEPSHIKHA SHRIVASTAVA**  
**3)PRIYA BALKRISHNA OGHE**

(57) Abstract :  
ABSTRACT This innovation is based on providing a duster with roller to collect the dust of duster in a tray and clean the black board with a wet sponge. Front side of duster will have dry cloth to clean the material written on board ,once the duster is full of dust it will be cleaned with roller attached on back side which will be filped on duster and front side will have wet sponge that will clean the board.

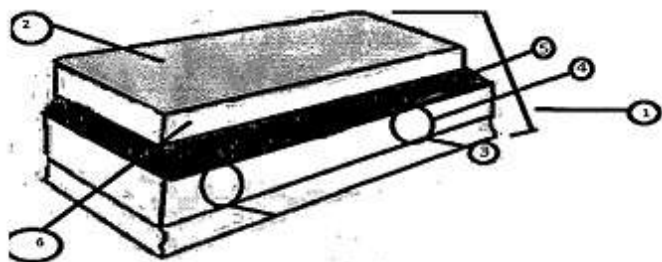


Figure 1

No. of Pages : 7 No. of Claims : 6

(54) Title of the invention : AUTOMATIC AND DUST FREE MECHANISM FOR BOARD CLEANING

(51) International classification	:B43L0021040000, B43L0001040000, B43L0001080000, B24B0047080000, H03H0003020000	(71)Name of Applicant : <b>1)PRIYANKA RAMDAS CHAVAN</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)SNEHA VILASRAO PAWADE</b>
(32) Priority Date	:NA	<b>3)RUPALI MANOJ PATIL</b>
(33) Name of priority country	:NA	<b>4)TEJAL SWANIL PATIL</b>
(86) International Application No	:NA	<b>5)JAYASHRI VITTHAL CHOPADE</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)PRIYANKA RAMDAS CHAVAN</b>
(61) Patent of Addition to Application Number:	:NA	<b>2)SNEHA VILASRAO PAWADE</b>
Filing Date	:NA	<b>3)RUPALI MANOJ PATIL</b>
(62) Divisional to Application Number	:NA	<b>4)TEJAL SWANIL PATIL</b>
Filing Date	:NA	<b>5)JAYASHRI VITTHAL CHOPADE</b>

(57) Abstract :

The traditional blackboard is to rely on artificial wiped the handwriting effort and produce dust, causing inconvenience to the teacher in class, also affect the quality of students listening lectures. Institutional innovation reform to solve these problems by this design, the basis of the principle of mechanical transmission, avoiding artificial effort also improve the students listening environment, replace the traditional blackboard whole process of automatic polishing off the writing on the blackboard and automatic clean, environmental protection and the structure is simple, manufacture easily, promote efficiency of the teacher in class.

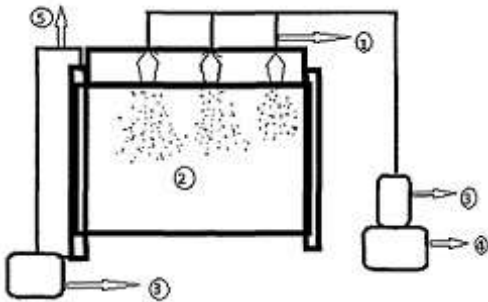


FIGURE - 1

No. of Pages : 7 No. of Claims : 4

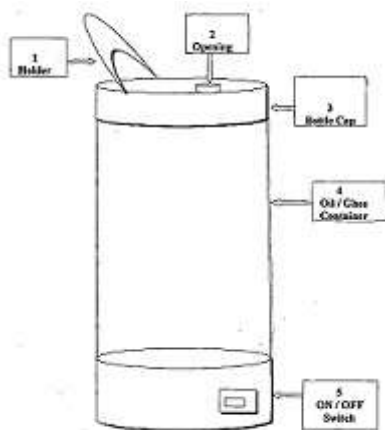


(54) Title of the invention : PURE COCONUT OIL PRESERVATION IN WINTER SEASON

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:B65D0081340000, A61K0008920000, F03G0007060000, F25B0027000000, C10L0003000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)BHAGYASHREE LAXMAN GAWALI</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING &amp; RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India</p> <p><b>2)VIJAYALAXMI SANDIP KUMBHAR</b></p> <p><b>3)SNHAL BHAGWAN GHOLAP</b></p> <p><b>4)DIPALI NILESH DHAKE</b></p> <p><b>5)TRIVENI DEEPAK DHAMALE</b></p> <p><b>6)RUPALI RAMDAS KAWADE</b></p> <p><b>7)ARTI AVINASH TEKADE</b></p> <p>(72)Name of Inventor :</p> <p><b>1)BHAGYASHREE LAXMAN GAWALI</b></p> <p><b>2)VIJAYALAXMI SANDIP KUMBHAR</b></p> <p><b>3)SNHAL BHAGWAN GHOLAP</b></p> <p><b>4)DIPALI NILESH DHAKE</b></p> <p><b>5)TRIVENI DEEPAK DHAMALE</b></p> <p><b>6)RUPALI RAMDAS KAWADE</b></p> <p><b>7)ARTI AVINASH TEKADE</b></p>
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(57) Abstract :

There are various options to preserve the coconut oil but its pure form changes to solid state in winter season usually at present to convert it into liquid state either it is kept in hot water or heat is provided for the same. Instead of going for these options a provision is made in the bottle itself so that the oil liquid state.



No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : UNDERWATER IMAGE AND SIGNAL PROCESSING

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06T0005000000, H04N0005225000, H04N0005775000, H04B0013020000, H04J0013000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)TRIVENI DEEPAK DHAMALE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING &amp; RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India</p> <p><b>2)RUPALI RAMDAS KAWADE</b></p> <p><b>3)NEHA GURURAJ CHAVAN</b></p> <p><b>4)CHINMAYEE CHANDRAKANT CHITNIS</b></p> <p>(72)Name of Inventor :</p> <p><b>1)TRIVENI DEEPAK DHAMALE</b></p> <p><b>2)RUPALI RAMDAS KAWADE</b></p> <p><b>3)NEHA GURURAJ CHAVAN</b></p> <p><b>4)CHINMAYEE CHANDRAKANT CHITNIS</b></p>
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(57) Abstract :

This innovation is based on providing an entire system to perform various tasks like underwater image capturing, image processing, underwater signal transmission, signal processing and developing GUI for easily performing all above mentioned tasks; where a camera is provided to capture underwater images, then there are image enhancement and image restoration algorithms developed in MATLAB, to process the image and for signal transmission hydrophone transmitter and receiver pair is used and further MATLAB codes are used to process the received signal.

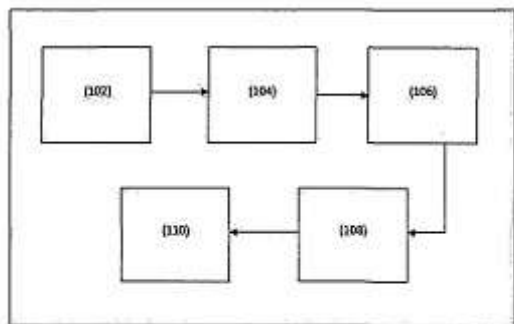


FIGURE - 100

No. of Pages : 11 No. of Claims : 2

(54) Title of the invention : SMART CLASSROOM WITH AUTOMATIC ATTENDANCE SYSTEM

(51) International classification :G06K0009000000,  
G06Q0010060000,  
G06K0009320000,  
A61B0005000000,  
G05B0019042000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**3)AISHWARYA TRIMBAK ZODGE**

(72)Name of Inventor :  
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**2)SOJWAL SHALIGRAM PATIL**  
**3)AISHWARYA TRIMBAK ZODGE**

(57) Abstract :

Classroom has a vital role in our daily life This project concern about to make a classroom fully automated and smart Automatic switching ON and OFF lights and fans can save our time and also make a classroom more efficient PIR sensor technology is used in this project for automating light and fan and a powerful micro controller ATmega 328 is used to control all these things automatically The automatic attendance system will replace the manual method, which takes a lot of time consuming and difficult to maintain There are many biometric processes in that face recognition and fingerprint is the best method In this project we are going to describe the attendance without human interference.

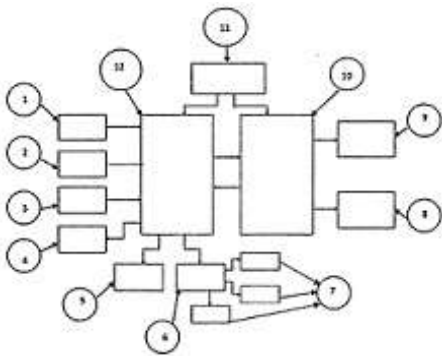


FIGURE - 1

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : AUTOMATIC WASTE SEGREGATION AND MONITORING SYSTEM

(51) International classification :C10G0001100000,  
G06F0021000000,  
B26D0007180000,  
H04L0029080000,  
C10B0053070000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**3)ANAGHA SUDHIR NAVALE**

(72)Name of Inventor :  
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**2)SHWETA SNEHAL NARKHEDE**  
**3)ANAGHA SUDHIR NAVALE**

(57) Abstract :

In new era of Web and Internet of Things (IoT) where the urbanization is increasing rapidly, the corresponding waste is increasing exponentially The said system proposes a cost effective Automatic waste segregator and monitoring system for proper management of waste Automatic waste segregator categorizes the waste as plastic, metallic or organic The monitoring system helps to monitor the waste collection process.

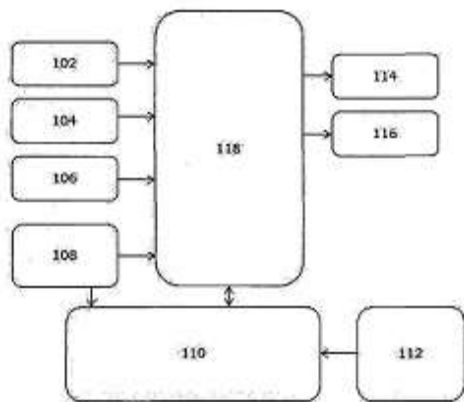


FIGURE 100

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : LIBRARY AUTOMATION USING COMPUTER VISION

(51) International classification :G06K0009000000,  
G06K0009460000,  
G06N0003080000,  
G06K0009620000,  
G06N0003040000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :  
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**2)SHWETA DADASAHEB JAGTAP**

(57) Abstract :

Efficient and accurate object detection has been an important topic in the advancement of computer vision systems, with the advent of deep learning techniques, the accuracy for object detection has increased drastically, the project aims to incorporate state-of-the-art technique for object detection with the goal of achieving library automation with high accuracy with a real-time performance, a major challenge in many of the object detection systems is the dependency on other computer vision techniques for helping the deep learning based approach, which leads to slow and non-optimal performance, in this project, we use a completely deep learningbased approach to solve the problem of object detection in an end-to-end fashion and as a result we are able to automate the library using the following technique with the help of solid state relay,the network is trained on the most challenging publicly available dataset (COCO) which is been pre trained by Microsoft, on which a object detection challenge is conducted annually, the resulting system is fast and accurate, thus aiding those applications which require object detection.

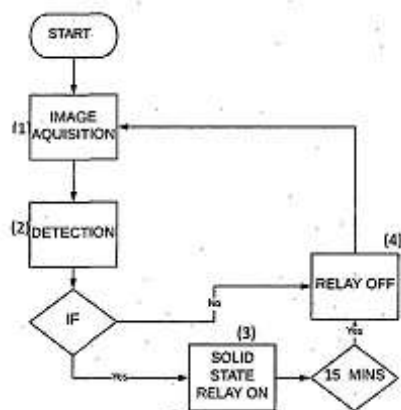


FIGURE - 1

No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : A RASPBERRY PI BASED SMART GADGET FOR WOMEN SAFETY USING IOT

(51) International classification	:G08B0025010000, G06F0001160000, G08B0015020000, F41H0009100000, E04F0017100000	(71)Name of Applicant : <b>1)MAITHILI SHAILESH ANDHARE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)SHIVANI RAVINDRA JADHAV</b>
(32) Priority Date	:NA	<b>3)PUSHPA SHARAD PATIL</b>
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)MAITHILI SHAILESH ANDHARE</b>
Filing Date	:NA	<b>2)SHIVANI RAVINDRA JADHAV</b>
(87) International Publication No	: NA	<b>3)PUSHPA SHARAD PATIL</b>
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

Every day, every woman, young girls, mothers and women from all walks of life are struggling to be safe and protect themselves from the roving gaze of the horribly insensitive men who molest, assault and violate the dignity of women on a daily basis. The streets, public transport, public places in particular have become the dominion of the hunters. Due to these atrocities that women are subjected to in the present scenario, a smart security wearable device for women based on Internet of Things is proposed. It is implemented in the form of a smart device and comprises of Raspberry Pi Zero(3), Raspberry Pi camera(5), buzzer(4) and button(2) to activate the services. This device is extremely portable and can be activated by the victim on being assaulted just by the click of a button that will fetch her current location and also capture the image of the attacker via Raspberry Pi camera.

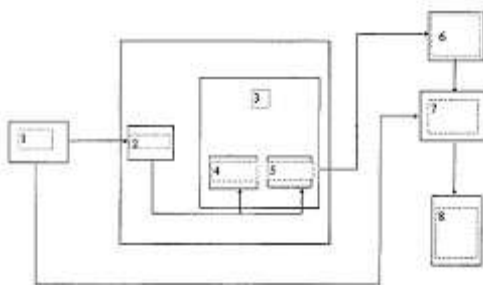


FIGURE 1

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : METHOD AND SYSTEM FOR EXTRACTING CONTEXTUAL INFORMATION FROM A KNOWLEDGE BASE

(51) International classification :H01M0010440000,  
G11B0017049000,  
G03G0015080000,  
A24D0003060000,  
B65D0006220000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)**Name of Inventor :**  
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**2)PHANSALKAR, Ajeet**  
**3)KSHIRSAGAR, Mahesh**

(57) Abstract :

This disclosure relates generally to method and system for extracting contextual information from a knowledge base. The method receives a user query comprising a request to extract contextual information from the user query. Further, the user query is analysed based on a plurality of predefined parameters to determine sufficiency of information comprised in the user query. The received user query identifies relevant sources of the structured data, the unstructured data or the semi-structured data storage repositories. The user query is processed using a fine grain approach, where a dictionary of one or more keywords with weights are created through the domain ontology builder from the one or more knowledge articles. Furthermore, an appropriate contextual information related to the user query is extracted using the fine grain approach, based on the knowledge articles associated with the trained knowledge base comprising information required by the user query extracted from the knowledge articles.



No. of Pages : 49 No. of Claims : 10

(54) Title of the invention : SECURED ATM SYSTEM

(51) International classification :G07F0019000000,  
H04N0007180000,  
G08B0013196000,  
G07G0003000000,  
G08B0031000000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**4)PRAJAKTA SANDESH PATIL**

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**2)SWAMINI ANIL LOHKARE**  
**3)RUPALI SADASHIV PATIL**  
**4)PRAJAKTA SANDESH PATIL**

(57) Abstract :

This project is concerned with Security of ATM for theft Control, though Automated Teller Machines (ATMs) security is the field of study that aims at solutions that provide multiple points of protection against physical and electronic theft from ATMs and protecting their installations and surveillance system which is a smart system based on embedded technology and image Processing that incorporates various sensors and algorithms to continuously monitor its surroundings for suspicious activities like physical attack, fraud and theft that might jeopardize the ATM and people nearby, also discussed is the security and safety measures that can be implemented to prevent such raids by proper surveillance along with this at the entry system by image processing algorithm is proposed to enhance the security of the System.

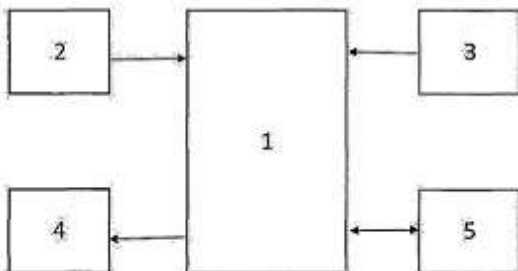


FIGURE 100

No. of Pages : 7 No. of Claims : 7

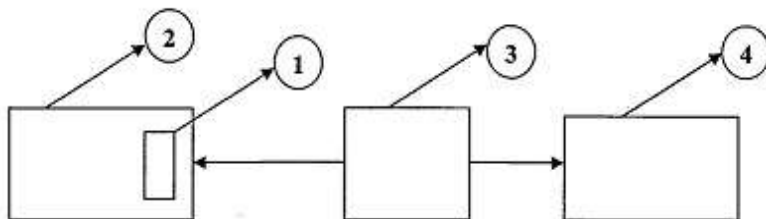


(54) Title of the invention : AN EFFICIENT VEHICLE REGISTRATION NUMBER RECOGNITION SYSTEM

(51) International classification	:H04N0007180000, G06Q0030060000, G06K0007100000, H04M0003420000, G08G0001017000	(71)Name of Applicant : <b>1)RUPALI RAMDAS KAWADE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)TRIVENI DEEPAK DHAMALE</b>
(32) Priority Date	:NA	<b>3)DIPALI NILESH DHAKE</b>
(33) Name of priority country	:NA	<b>4)BHAGYASHREE LAXMAN GAWALI</b>
(86) International Application No	:NA	<b>5)SNEHAL BHAGWAN GHOLAP</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)RUPALI RAMDAS KAWADE</b>
(61) Patent of Addition to Application Number	:NA	<b>2)TRIVENI DEEPAK DHAMALE</b>
Filing Date	:NA	<b>3)DIPALI NILESH DHAKE</b>
(62) Divisional to Application Number	:NA	<b>4)BHAGYASHREE LAXMAN GAWALI</b>
Filing Date	:NA	<b>5)SNEHAL BHAGWAN GHOLAP</b>

(57) Abstract :

An efficient Vehicle Registration Number identification system proposed here Uses QR codes which can be easily generated and will be placed on the vehicle at an appropriate location and the camera system will capture the image of QR code for future reference and in parallel will scan the QR code live, further it can be decoded to get the vehicle registration number which is easy to implement at a very low cost and less time across the country.

**FIGURE - 1**

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : AN AUGMENTED REALITY BASED INTELLIGENT RECOMMENDATION SYSTEM AND A METHOD THEREOF

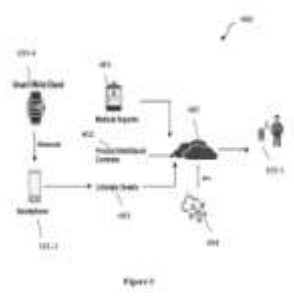
(51) International classification :G06Q0030060000,  
G16H0010600000,  
G06F0016953500,  
G09B0005000000,  
G06Q0050120000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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Maharashtra India

(72)**Name of Inventor :**  
**1)Ritika Deepak Chawla**  
**2)Vikram Shrimantrao Samdare**  
**3)Nilesh Prakash Parakh**  
**4)Juhi Ajmera**

(57) Abstract :  
Disclosed is an augmented reality based recommendation system (101) and method (1000). The system comprises a processor (201) and memory (205) comprising a database (211). The processor (201) receives medical records from a user and processes the records using a machine learning technique for deriving a medical profile. A wearable device (103-4) tracks physical activities of the user for generating a behavioural profile. The medical profile and the behavioural profile of the user is maintained in the database (211) further comprising pre-stored product information. The product information comprises nutritional contents of the product. An image capturing means of the user device (103-1) scans the product. The processor (201) retrieves nutritional content of the product and analyses the nutritional content of the product based upon the medical profile and the behavioural profile of the user. A recommendation information of the product is displayed. [To be published with Figure 3



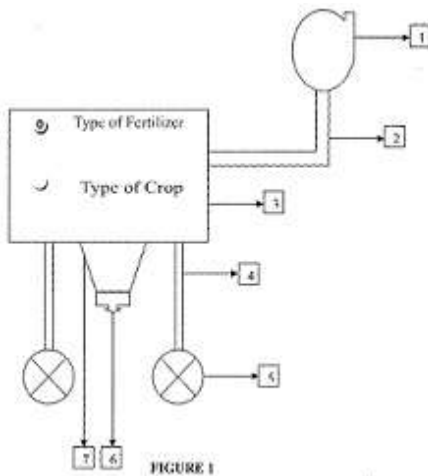
No. of Pages : 34 No. of Claims : 10

(54) Title of the invention : FERTILIZOMETER

(51) International classification	:C05B0007000000, A01C0021000000, A01N0043360000, A01C0015020000, A01C0015060000	(71)Name of Applicant : <b>1)DR. ARCHANA AJIT CHAUGULE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR. ARCHANA AJIT CHAUGULE</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein is a system which includes Container (1) wherein the fertilizer will be poured into; the Tube (2) where in the required fertilizer will flow through and Selection Box (3) wherein fertilizer will pass into and the type of fertilizer will be selected: solid or liquid; as well as the type of crop is selected, which automatically decides the amount of fertilizer that each plant of the selected crop needs, the wheel supports (4) on which the wheels (5) are placed so that the machine can run through; Container (6) wherein the amount of fertilizer will flow into, and distributor knob (7) wherein the fertilizer will be poured through.



No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : A SENSING DEVICE TO AUTO SWITCH-OFF THE DOMESTIC WATER PURIFIER

(51) International classification	:B67D0001120000, G08B0021200000, B67D0001080000, A47J0036000000, E05B0045000000	(71)Name of Applicant : <b>1)VAISHALI PRASAD LATKE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)VAISHALI PRASAD LATKE</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Powered water purifier is an every household commodity today. However the switching on and off of the unit is entirely a manual operation. Particularly, the switching off requires supervision and timely action, otherwise it may lead to overflowing of water container, loss of valuable purified water and electricity, not to mention, wetting and spoiling of objects around the container and The idea proposed herein is to stop the loss of water and power, to avoid the anxiety and time-loss in supervision, while the container is being filled with water coming out of the outlet of domestic water purifier and it is possible to develop a simple auto switch-off mechanism, which will sense the water level in the container and once the pre-set level in the container is reached, will cut off the electric current, thereby automatically stopping the flow of water through purifiers outlet, at the same time, sounding an alarm to warn the user that the process is over and the mechanism will require assembly of an appropriate sensing device, a pre-set unit to specify desired highest water level in the container, connectivity to the power switch on the purifier unit and to an alarm and the necessary electronic circuit to control the auto switch-off operation, on receiving the signal from sensor and the number of equipment involved is small, inexpensive, harmless, easily available in present scenario of advanced electronics and simple to assemble. The idea of auto switching off of the domestic water purifier at the desired level of water in storage container, thereby avoiding loss of water and electricity shall be welcomed by every user, particularly the conscientious housewives of our nation.

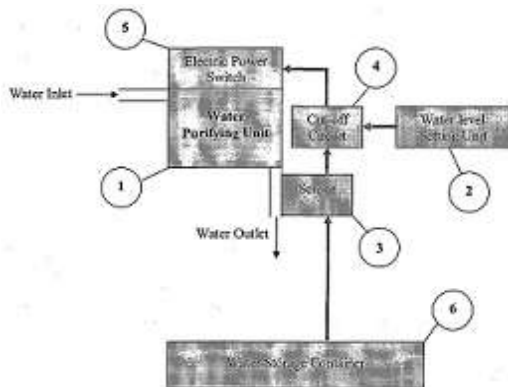


FIGURE 1

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : A SYSTEM FOR AUTOMATIC FAN SPEED CONTROL IN ACCORDANCE WITH ROOM TEMPERATURE

(51) International classification :F24F0011620000,  
A47C0021040000,  
F04D0027000000,  
F24F0011650000,  
F24F0011000000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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110 (P), LAXMINAGAR, RAVET, PUNE-412 101,  
MAHARASHTRA, INDIA. Maharashtra India

(72)Name of Inventor :  
**1)RAJASHREE NILESH DARWATKAR**

(57) Abstract :

A system for automatic fan speed control in accordance with room temperature is inventing to provide the comfortable or required Fan speed in room automatically, the system will help to avoid human interference to control Fan speed and this invention is especially helpful while sleeping time, because it will avoid unnecessary disturbance in sleep due to Fan speed.

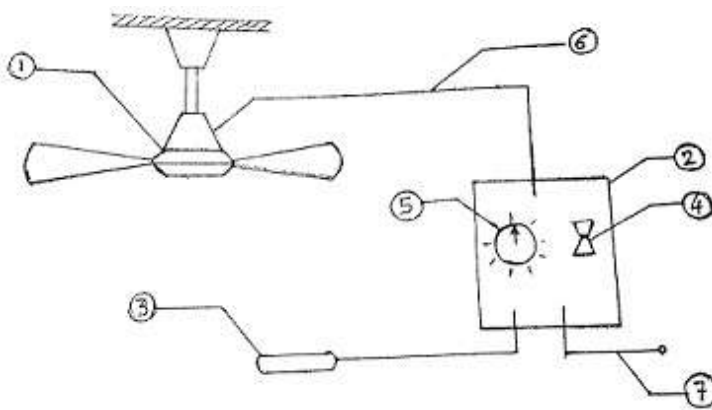


Figure 1

No. of Pages : 9 No. of Claims : 9

(54) Title of the invention : AQUATIC WALL GARDEN

(51) International classification :A01G0009020000,  
A01K0063000000,  
E04B0002020000,  
A01G0009000000,  
B65D0005480000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)ASHWINI RAKESH JAGNADE**

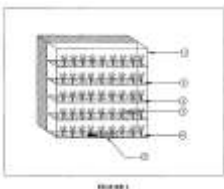
Address of Applicant :PIMPRI CHINCHWAD COLLEGE  
OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO.  
110 (P), LAXMINAGAR, RAVET, PUNE-412 101,  
MAHARASHTRA, INDIA. Maharashtra India

(72)Name of Inventor :

**1)ASHWINI RAKESH JAGNADE**

(57) Abstract :

This module is made by fiber glass(1), natural sand(2), live plants(4), vibrator(5) & electric light shades(6), 70% of the material is totally close to nature & natural substance; now a day the nature is going far away from the people & our motto is to save underwater world including underwater plants where an aquatic wall garden made from modular perforated fiber glass wall (1) members, who form back walls, compartment walls and horizontal shelf(2) members, whereby the back walls, compartment walls and horizontal shelf members, interlock with each other to form a layer of box like plant holding compartments in which first layer is positioned against a vertical wall with the open face facing outwardly from the wall, and additional layers are connected on top of each other until the required height of vertical wall garden is reached, these layers are then secured to the vertical wall whether plants are then placed in water with sand or mud (3) and placed in the holding compartments with the plants facing outwardly from the wall; thus there is provided structural fiber glass support modules which are connected together to form an aquatic wall garden which is fast to install, easy fixing on walls both indoors and outdoors, provides a friendly plant habitat and easy maintenance; further the wall garden can support a large vertical load of plants and soil.



No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052334 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

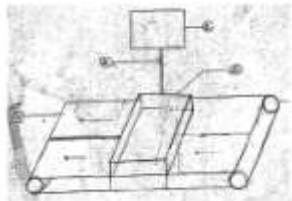
(43) Publication Date : 18/06/2021

(54) Title of the invention : FAULT DETECTION OF INDUSTRIAL PIPES USING APPLICATION OF IMAGE PROCESSING

(51) International classification	:G06Q0010060000, G09G0003360000, B33Y0050020000, G06Q0050040000, H04W0072080000	(71)Name of Applicant : <b>1)SNEHAL BHAGWAN GHOLAP</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)BHAGYASHREE LAXMAN GAWALI</b>
(32) Priority Date	:NA	<b>3)ASMITA VAIBHAV DESAI</b>
(33) Name of priority country	:NA	<b>4)DIPALI NILESH DHAKE</b>
(86) International Application No	:NA	<b>5)TRIVENI DEEPAK DHAMALE</b>
Filing Date	:NA	<b>6)RUPALI RAMDAS KAWADE</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)SNEHAL BHAGWAN GHOLAP</b>
Filing Date	:NA	<b>2)BHAGYASHREE LAXMAN GAWALI</b>
(62) Divisional to Application Number	:NA	<b>3)ASMITA VAIBHAV DESAI</b>
Filing Date	:NA	<b>4)DIPALI NILESH DHAKE</b>
		<b>5)TRIVENI DEEPAK DHAMALE</b>
		<b>6)RUPALI RAMDAS KAWADE</b>

(57) Abstract :

This innovation is based on automation in quality check procedure in industrial pipe manufacturing unit, it aims to reduce the duration required to evaluate the final product for any defects/faults and separate it from the finished and finalized product, it has multifold benefit to the manufacturing unit that includes reduction in the duration of quality check of the final product, increased accuracy and reduction of human intervention and resources in quality check process thus increasing the overall productivity of the manufacturing unit.



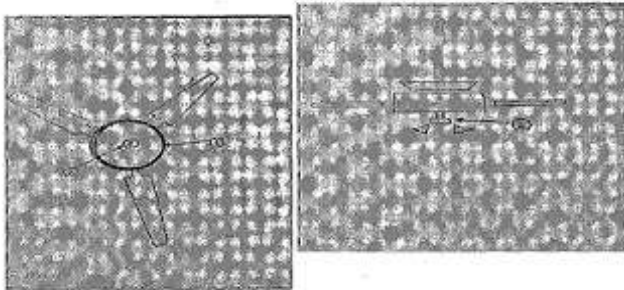
No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : A THERMAL CAMERA SENSOR FOR A FAN TO SAVE ELECTRICITY

(51) International classification	:A61B0005010000, A61B0005000000, H04N0005330000, G01J0005080000, G01J0005000000	(71)Name of Applicant : <b>1)SHILPA RAJESH KALE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE-412 101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)SHWETA ASHISH KOPARDE</b>
(32) Priority Date	:NA	<b>3)ANUJA TANAJI BHONDVE</b>
(33) Name of priority country	:NA	<b>4)SONALI SAGARMAL LUNAWAT</b>
(86) International Application No	:NA	<b>5)MADHURI HUSAN BADOLE</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)SHILPA RAJESH KALE</b>
(61) Patent of Addition to Application	:NA	<b>2)SHWETA ASHISH KOPARDE</b>
Number	:NA	<b>3)ANUJA TANAJI BHONDVE</b>
Filing Date	:NA	<b>4)SONALI SAGARMAL LUNAWAT</b>
(62) Divisional to Application Number	:NA	<b>5)MADHURI HUSAN BADOLE</b>
Filing Date	:NA	

(57) Abstract :

This innovation is based on saving electricity. In a classroom if around 50 students can seat and there were 5 fans then if only 20 students were present in the classroom then only 2 or 3 fans are sufficient then no need to turn on the rest fans so if they are still on it is waste of electricity to reduce the waste of electricity we can mount thermal camera on fan and can sense the temperature changes under the area of fan and if non changes appeared it will be on and if person is not there it will sense that the temperature of that person change in that area so it will be get off Thermal camera can be mounted on the center of fan for sensing the heat or temperature change through infrared radiation.



No. of Pages : 8 No. of Claims : 4



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052339 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN ALARMING SYSTEM FOR MISHANDLING OF EQUIPMENTS

(51) International classification	:A61B0005110000, A61B0005000000, G01J0005000000, F24F0011300000, A61B0090960000	(71) <b>Name of Applicant :</b> <b>1)BHAGYASHREE APPASAHEB BHOSALE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)BHAGYASHREE APPASAHEB BHOSALE</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The system comprises of barcode, motion sensors on object and maintenance server for maintaining all the data regarding the mishandling, system provided on each object to identify and motion sensors which will indicate the person for misuse of the object.

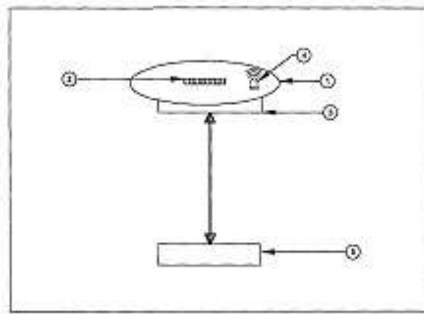


FIGURE 1

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : ATM SECURITY SYSTEM USING IRIS RECOGNITION BY IMAGE PROCESSING

(51) International classification :G06K0009000000,  
G06F0021320000,  
H04L0029060000,  
G01N0021640000,  
F02B0075220000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)DIPALI NILESH DHAKE**  
Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India  
**2)PRATIKSHA SANJAY SHETIYA**  
**3)MERYL ANTHONY MASCARENHAS**  
**4)MRUNAL ANAND DESHMUKH**

(72)Name of Inventor :  
**1)DIPALI NILESH DHAKE**  
**2)PRATIKSHA SANJAY SHETIYA**  
**3)MERYL ANTHONY MASCARENHAS**  
**4)MRUNAL ANAND DESHMUKH**

(57) Abstract :

Iris recognition system has proven its capability in implementing reliable biometric security protocols in various high risk sectors like aviation, border, patrol and defense which can be split into four stages: Image acquisition and image pre-processing, segmentation, normalization, feature extraction and matching and if the iris is matched with the database then the user has access to the account or else user request is denied.

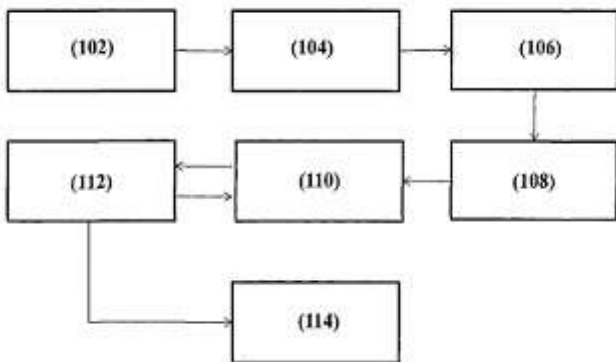


FIGURE 100

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : AN ALTERATION IN TOOTHBRUSH TO DETECT GERMS

(51) International classification	:A47G0019220000, C07K0016080000, H04R0003040000, G01J0003020000, E21B0033138000	(71)Name of Applicant : <b>1)SHWETA ASHISH KOPARDE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)SONALI SAGARMAL LUNAWAT</b>
(32) Priority Date	:NA	<b>3)MADHURI HUSAN BADOLE</b>
(33) Name of priority country	:NA	<b>4)ANUJA TANAJI BHONDVE</b>
(86) International Application No	:NA	<b>5)SHILPA RAJESH KALE</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)SHWETA ASHISH KOPARDE</b>
(61) Patent of Addition to Application	:NA	<b>2)SONALI SAGARMAL LUNAWAT</b>
Number	:NA	<b>3)MADHURI HUSAN BADOLE</b>
Filing Date	:NA	<b>4)ANUJA TANAJI BHONDVE</b>
(62) Divisional to Application Number	:NA	<b>5)SHILPA RAJESH KALE</b>
Filing Date	:NA	

(57) Abstract :

It is always better to prevent than cure,So A brush is designed such that it will detect germs because it is not always possible to go to doctor for check up in a busy schedule,many times we ignore cavity or germs in mouth and therefore it creates so many tooth problems,especially in small children and therefore alteration is done in toothbrush which consist of a sensing material which is used to detect germs and a sensor which is used to sound after detecting germs in particular area

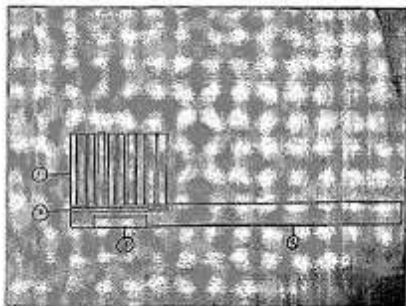


Figure I

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : MULTIPURPOSE HAIRBELT FOR HAIRSTYLE

(51) International classification	:A61Q0005060000, A45D0008360000, A45D0008380000, A45D0002000000, H04W0088040000	(71)Name of Applicant : <b>1)DIPALI NILESH DHAKE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)TRIVENI DEEPAK DHAMALE</b>
(32) Priority Date	:NA	<b>3)RUPALI RAMDAS KAWADE</b>
(33) Name of priority country	:NA	<b>4)BHAGYASHREE LAXMAN GAWALI</b>
(86) International Application No	:NA	<b>5)SNEHAL BHAGWAN GHOLAP</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)DIPALI NILESH DHAKE</b>
(61) Patent of Addition to Application	:NA	<b>2)TRIVENI DEEPAK DHAMALE</b>
Number	:NA	<b>3)RUPALI RAMDAS KAWADE</b>
Filing Date	:NA	<b>4)BHAGYASHREE LAXMAN GAWALI</b>
(62) Divisional to Application Number	:NA	<b>5)SNEHAL BHAGWAN GHOLAP</b>
Filing Date	:NA	

(57) Abstract :

This innovation is based on the hair belt which is used for multipurpose, which is well handy accessory used for hair , this hair belt made by metal channel design having curvature end point of both side of hair belt ,due to channel design of hair belt, minimize the size of belt is possible and after pressing it, it become banana clutcher,then to tie all hair, cross both end of belt and hang it which is more convenient to change hairstyle without carrying two different hair accessories.



FIGURE 1

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : ADVANCED ONION STORAGE SYSTEM

(51) International classification :G01N0033000000,  
F24F0110700000,  
G01N0027414000,  
G05B0019042000,  
G01N0021800000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India  
**2)RUPALI RAMDAS KAWADE**  
**3)DIPALI NILESH DHAKE**  
**4)BHAGYASHREE LAXMAN GAWALI**  
**5)SNEHAL BHAGWAN GHOLAP**

(72)Name of Inventor :  
**1)TRIVENI DEEPAK DHAMALE**  
**2)RUPALI RAMDAS KAWADE**  
**3)DIPALI NILESH DHAKE**  
**4)BHAGYASHREE LAXMAN GAWALI**  
**5)SNEHAL BHAGWAN GHOLAP**

(57) Abstract :

Innovation is based on proposing a onion storage system consists of atmega328p controller 101), sensors like ammonia gas sensor(107), carbon dioxide sensor(109), temperature and humidity sensor(108) which are the input of controller on the basis of those inputs the controller can process on input data and produced desire output. The outputs of the controller are given to exhaust fan, dryer system, LCD display (103), stepper motor(106) etc. The large onion storage is divided in to the small compartments for easier handling of our proposed system. Sensors are connected in the compartment of storage so they are easily able to sense the gases emitted by the rotten onion.

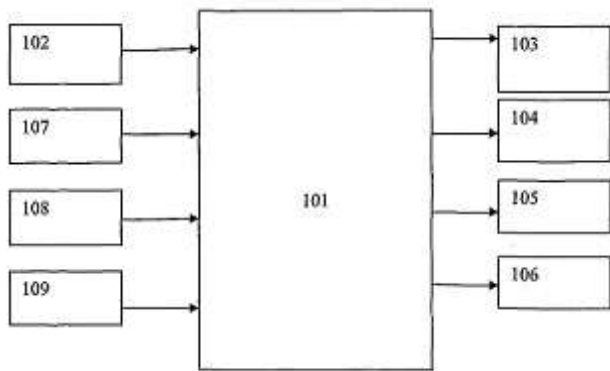


FIGURE 100

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : WATER BOTTLE WITH STORAGE CONTAINER

(51) International classification :G11B0027000000,  
A47G0019220000,  
A45F0003160000,  
B62J0011000000,  
A45F0003180000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)ARTI AVINASH TEKADE**

Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING &amp; RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India

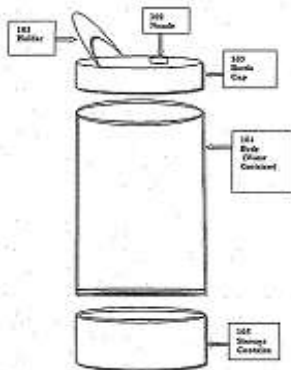
**2)VIJAYALAXMI SANDEEP KUMBHAR****3)MAITHILI SHAILESH ANDHARE**

(72)Name of Inventor :

**1)ARTI AVINASH TEKADE****2)VIJAYALAXMI SANDEEP KUMBHAR****3)MAITHILI SHAILESH ANDHARE**

(57) Abstract :

This innovation is relates to the advancement in water bottle by Providing multipurpose storage container at the bottom of bottle so that person can keep their medicines or any other important stuff in the container priory and it is automatically carry out with the Bottle.



No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : DOG TYING ROPE WITH ELASTIC SPRING

(51) International classification	:A01K0027000000, A41F0009020000, A01K0015020000, B63B0021200000, F04B0043000000	(71)Name of Applicant : <b>1)SNEHA VILASRAO PAWADE</b> Address of Applicant :PIMPRICHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR RAVET, PUNE-412 101, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)JAYASHRI VITTHAL CHOPADE</b>
(32) Priority Date	:NA	<b>3)RUPALI MANOJ PATIL</b>
(33) Name of priority country	:NA	<b>4)TEJAL SWAPNIL PATIL</b>
(86) International Application No	:NA	<b>5)PRIYANKA RAMDAS CHAVAN</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)SNEHA VILASRAO PAWADE</b>
(61) Patent of Addition to Application Number	:NA	<b>2)JAYASHRI VITTHAL CHOPADE</b>
Filing Date	:NA	<b>3)RUPALI MANOJ PATIL</b>
(62) Divisional to Application Number	:NA	<b>4)TEJAL SWAPNIL PATIL</b>
Filing Date	:NA	<b>5)PRIYANKA RAMDAS CHAVAN</b>

(57) Abstract :

Generally, a leash assembly made according to the invention includes a handle and an elongate strap connected at one end to the handle, the other end being adapted to be connected to a collar worn by an animal, such as a pet dog. An elastic element has a first length when in a relaxed state and is extensible to a second length when substantially fully extended. The elastic spring includes considerable length of leash inside the spring which is attached to the strap with the length of strap between attached ends of the elastic element being substantially equal to the second length. The elastic element significantly provides with simple structure, easy to use, to avoid damage to the dog fur at the neck, easy to tie a rope.

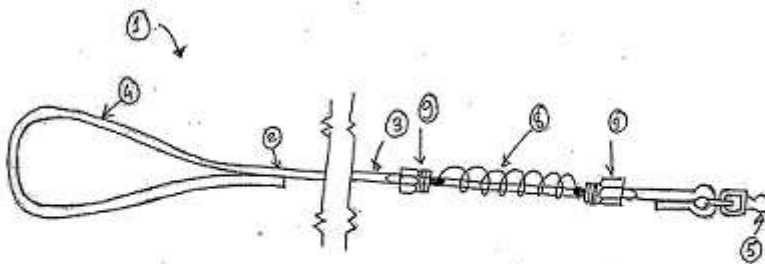


FIGURE 1

No. of Pages : 10 No. of Claims : 9

(54) Title of the invention : A SMART TOOL FOR TESTING DEFICIENT ELEMENTS IN SOIL

(51) International classification	:G01N0021356300, G01B0011060000, G01N0021359000, G01N0033240000, G01N0021310000	(71)Name of Applicant : <b>1)VIJAYALAXMI SANDEEP KUMBHAR</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)ARTI AVINASH TEKDE</b>
(32) Priority Date	:NA	<b>3)MAITHILI SHAILESH TEKADE</b>
(33) Name of priority country	:NA	<b>4)DHANASHREE KANTILAL DIVEKAR</b>
(86) International Application No	:NA	<b>5)SAMRUDDHI SUNIL JANGAM</b>
Filing Date	:NA	<b>6)KAJAL YASHWANT MAHAJAN</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)VIJAYALAXMI SANDEEP KUMBHAR</b>
Filing Date	:NA	<b>2)ARTI AVINASH TEKDE</b>
(62) Divisional to Application Number	:NA	<b>3)MAITHILI SHAILESH TEKADE</b>
Filing Date	:NA	<b>4)DHANASHREE KANTILAL DIVEKAR</b>
		<b>5)SAMRUDDHI SUNIL JANGAM</b>
		<b>6)KAJAL YASHWANT MAHAJAN</b>

(57) Abstract :

An optical transducer which consists of light detection & light transmission system is developed for measuring and detecting the presence of Nitrogen (N), Phosphorus (P) and Potassium (K) in soil which is needed to decide how much extra content of these nutrients are to be added to the soil to increase soil fertility, these N, P and K value of the sample are determined by absorption of light of each nutrient according to the wavelength of LEDs which is chosen to fit the absorption band of each nutrient. The nutrient absorbs some of the light from LED and remaining light is reflected by the reflector surface and converted into voltage by photodiode. The system uses an ATmega328p microcontroller for data acquisition therefore the output from the transducer is converted into a digital display reading. Further these NPK ratios are compared with the data stored in memory and the suitable crops for that soil sample will display.

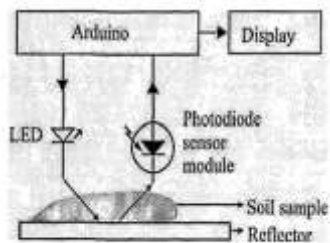


FIGURE-209

No. of Pages : 8 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052375 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : CURTAINS WITH PHASE CHANGING MATERIAL

(51) International classification	:F28D0020020000, B65D0017280000, A41D0027280000, F28D0020000000, H01L0023427000	(71)Name of Applicant : <b>1)RUPALI MANOJ PATIL</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR RAVET, PUNE-412 101, INDIA. Maharashtra India <b>2)SNEHA VILASRAO PAWADE</b> <b>3)JAYASHRI VITTHAL CHOPADE</b> <b>4)TEJAL SWAPNIL PATIL</b> <b>5)PRIYANKA RAMDAS CHAVAN</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)RUPALI MANOJ PATIL</b> <b>2)SNEHA VILASRAO PAWADE</b> <b>3)JAYASHRI VITTHAL CHOPADE</b> <b>4)TEJAL SWAPNIL PATIL</b> <b>5)PRIYANKA RAMDAS CHAVAN</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The presented curtain is capable of absorbing all the heat passing by it through the use of phase Changing Material, which then will change its phase from solid to liquid, while changing its phase, it will absorb the heat and store in it, thereby making the hotter air warmer and warmer air even more colder and this may not alter humidity of the area surrounding the curtains, hence these curtains may be applicable to the areas having lesser humidity and more hotter/sunny climate.

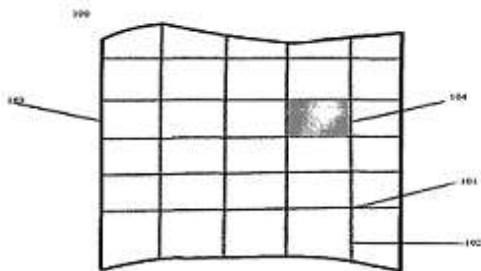


FIGURE - 1

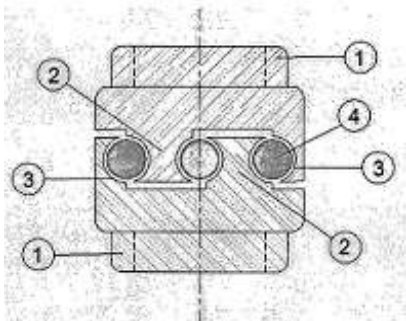
No. of Pages : 7 No. of Claims : 1

(54) Title of the invention : JAW COUPLING WITH SPHERICAL BALL POWER TRANSMITTING ELEMENT

(51) International classification	:F16H0048080000, F16D0003180000, F16D0003400000, B07B0013000000, F16D0003000000	(71)Name of Applicant : <b>1)PRIYA BALKRISHNA OGHE</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)MANISHA HEMANT DESHPANDE</b>
(32) Priority Date	:NA	<b>3)DEEPSHIKHA SHRIVASTAVA</b>
(33) Name of priority country	:NA	<b>4)SONALI KANASE</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)PRIYA BALKRISHNA OGHE</b>
(87) International Publication No	: NA	<b>2)MANISHA HEMANT DESHPANDE</b>
(61) Patent of Addition to Application Number:	:NA	<b>3)DEEPSHIKHA SHRIVASTAVA</b>
Filing Date	:NA	<b>4)SONALI KANASE</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

This innovation is an improved shaft coupling assembly for suitably aligned shafts comprising a pair of coupling members of which surfaces facing each other are provided with longitudinally extending jaws are shaped concave on the power transmitting faces and said gaps are formed by tow concave power transmitting faces of each member when meshed together, there are left a spherical gap and the said gap being filled with independent balls of resilient compressible material spherical balls, the said coupling members are two metallic members with jaws having concave cavity and when jaws form mating pair left a spherical gap which is accommodate an intermediate power transmitting element spherical ball of metallic or non metallic material and rolls against the concave cavity of the jaws, it also take care of the slight misalignment of the power transmitting shafts and minimize power losses due to rolling pair at jaws.

**FIGURE 1**

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921052387 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : DISPERSIBLE SPICE PELLETS

(51) International classification	:C12P0019180000, A61Q0011000000, G06F0017500000, A61K0009200000, A23L0027000000	(71) <b>Name of Applicant :</b> <b>1)TATA CHEMICALS LIMITED</b> Address of Applicant :BOMBAY HOUSE, 24 HOMI MODI STREET, MUMBAI- 400001, INDIA Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SHASHIKALA M. N</b>
(33) Name of priority country	:NA	<b>2)SATYANARAYANA REDDY J</b>
(86) International Application No	:NA	<b>3)ALINA MUKHARJEE</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a spice pellet comprising oligosaccharide in the range of 3-40% w/w of the total weight of the spice pellet, hydroxy propyl methyl cellulose (HPMC) in the range of 1-15% w/w of the total weight of the spice pellet, clarified butter in the range of 5-10% w/w of the total weight of the spice pellet, spice mixture in the range of 50-90% w/w of the total weight of the spice pellet. The present disclosure also relates to a method of making the spice pellet.

No. of Pages : 36 No. of Claims : 20

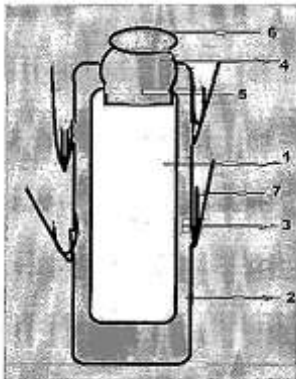
(54) Title of the invention : POUCHED THERMOSTATIC APPARATUS TO STORE PACKETS OF BEVERAGES IN ITS FOLDS

(51) International classification	:A61F0007000000, A47C0031000000, E05G0001024000, A47J0041020000, A61F0007020000	(71)Name of Applicant : <b>1)DR JYOTI RAMESH PAI</b> Address of Applicant :PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, PLOT B, SURVEY NO. 110 (P), LAXMINAGAR, RAVET, PUNE - 412101, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)DR JYOTI RAMESH PAI</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

This invention depicts a thermostatic apparatus for the preservation of liquids with its external metallic shell thrown into folds that act as pockets, it has an inner glass shell and an outer shell made of steel or any other strong metal as a protection with vacuum coupled in between the layers and the vacuum that is coupled and screwed with a lid encloses a cup at the mouth of the shells where the vacuum does not allow the heat or the cold to come in contact with air keeping the beverages and water at the same temperature, and the outer layer that is made of metal that has two layered folds used as space for the tiny packets of tea, milk or sugar lined with silicon or any other washable material pouches that can be removed and washed separately.. Figure 1

FIGURE1



No. of Pages : 7 No. of Claims : 6

(54) Title of the invention : THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION AND THE MANNER IN WHICH IT IS TO BE PERFORMED. A METHOD, MOBILE DEVICE, AND POS DEVICE FOR DELIVERING CASH TO A USER

(51) International classification :G06Q0020200000,  
G06Q0010080000,  
H04W0004020000,  
G07F0019000000,  
H04W0008260000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)Saraswat Infotech Private Limited**  
Address of Applicant :Kamdhenu Building. Business Bay,  
901/902, 9th Floor. Plot no. 51, Sector 1, Nerul, Navi Mumbai  
400706. Maharashtra India

(72)**Name of Inventor :**  
**1)Dr Devdatta Chandgadkar**

(57) Abstract :

A method for home delivering cash to a user is disclosed. The method comprises generating a cash delivery request for a user associated with a mobile device in response to an input from a user. The method comprises selecting delivery persons for transmitting cash delivery request based on location of the mobile device, a real-time location associated with the delivery persons and cash available with the delivery persons. The method comprises transmitting a private key to a POS cash delivery device associated with the delivery person. The method comprises initiating an electronic debit transaction equivalent to amount of cash in cash delivery request to merchant of POS cash delivery device. The delivery person in response to successful electronic debit transaction provides requested cash to user. The method comprises providing a confirmation of receipt of the amount of cash as requested in the cash delivery request to POS cash delivery device. Fig. 3

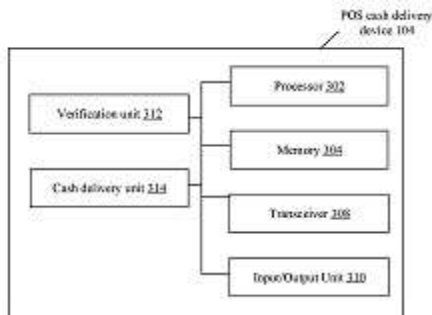


FIG. 3

(54) Title of the invention : SUBSURFACE GEOPHYSICAL DATA SYSTEM

(51) International classification	:H04L0009320000, H04L0029060000, G06F0021310000, G06F0021350000, G01V0011000000	(71) <b>Name of Applicant :</b> <b>1)GEOQUEST SYSTEMS B.V.</b> Address of Applicant :Gevers Deynootweg 61, The Hague, 2586 BJ, Netherlands Netherlands
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SHAILESH, Shankar</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method can include receiving a request from a requester for subsurface geophysical data of a geologic environment; responsive to the request, authenticating the requester using a zero-knowledge authentication scheme; and, responsive to authentication of the requester, providing access to at least a portion of the subsurface geophysical data of the geologic environment. Fig. 2

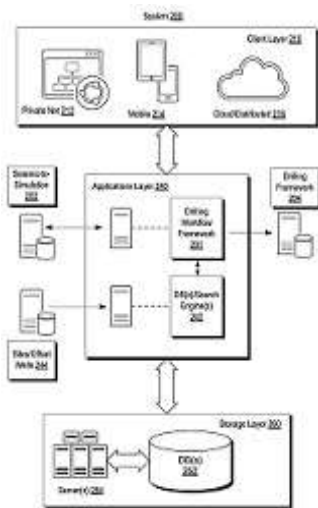


Fig. 2

No. of Pages : 51 No. of Claims : 15

(54) Title of the invention : SERIES MOTION SUSPENSION SYSTEM

(51) International classification	:B62K0025080000, B60G0015060000, B60G0013000000, F16F0009480000, B60G0015020000	(71) <b>Name of Applicant :</b> <b>1)RUZBEH GAV MASTER</b> Address of Applicant :1/799, MEHER VILLA, KOTWAL STREET, NANPURA, SURAT-395001, GUJARAT, INDIA Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GAV MASTER</b>
(33) Name of priority country	:NA	<b>2)RUZBEH GAV MASTER</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**SERIES MOTION SUSPENSION SYSTEM** A series motion suspension system disclosed in this invention is comprises of a triangular leading link 5, a triangular lower arm 4, a damper rod 6 and a shock absorber 8. The said triangular leading link 5 is connected to a wheel 9, a fork tube 1 and a lower end of the damper rod 6. The said triangular lower arm 4 is connected to the fork tube 1, an upper end of the damper rod 6 and a lower end of the shock absorber 8. The minor jerks are dampened by the damper rod 6 transmitting the major jerks which are absorbed by the shock absorbers 8 through transmission of motion through the leading link 5 and the lower arm 4. FIG. 1

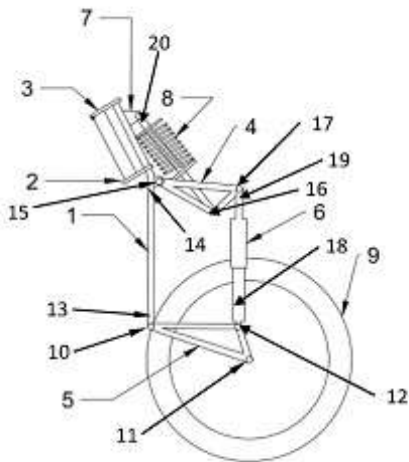


FIG. 1

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : AN IMPROVED SALINE MONITORING AND CONTROL SYSTEM

(51) International classification	:A61M0005168000, A61M0005172000, G01N0035000000, B28C0007020000, E21B0043260000	(71) <b>Name of Applicant :</b> <b>1)RAJARAMBAPU INSTITUTE OF TECHNOLOGY</b> Address of Applicant :Rajaramnagar, Islampur, Sangli 415414, Maharashtra Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KAKADE ANANDRAO BAJIRAO</b>
(33) Name of priority country	:NA	<b>2)KAKADE VIDYA ANANDRAO</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:	
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An improved saline monitoring and control system is provided to automatically measure, control and display the flow rate of IV fluid administered to a patient intravenously. IV Fluid data parameters comprising of the fluid level, flow rate, weight of the remaining fluid in the fluid reservoir are displayed on a monitor. When the fluid flow rate is lesser or more than pre-set value, the system takes corrective action by pinching or unpinching of the IV tube automatically, without manual intervention. The system comprises of a mechanical sub-assembly and an electronic sub-assembly, which function together to provide the desired IV flow rate to a patient. The system involves minimum human intervention and can protect healthcare workers from potential infection.

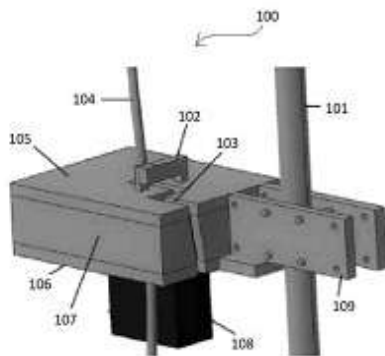


Figure 1

No. of Pages : 28 No. of Claims : 10



(54) Title of the invention : A DUAL ACTION CAPACITIVE SWITCH

(51) International classification	:H03K0017960000, H03K0017975000, A61M0005500000, A61M0005315000, G01D0005240000	(71) <b>Name of Applicant :</b> <b>1)KARKHANIS, Sanjay Dinkar</b> Address of Applicant :759/120 Deccan Gymkhana, Prabhat Road, Lane-2, Pune 411004, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KARKHANIS, Sanjay Dinkar</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:201921015701	
Filed on	:19/04/2019	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to the field of electronics and discloses a dual action capacitive switch (100) that can be retro-fitted in existing switching systems. The capacitive switch (100) comprises a plunger (102), at least one pair of sense electrodes (110A, 110B), and a processing unit (112). The plunger (102) is actuated by touch-action and one of push-action, slide-action, and rotary-action. A metallic element (111) is provided within the plunger (102). The actuation of the plunger (102) by touch-action leads to discharge of a first external capacitor (Cx1) and the actuation of the plunger (102) by slide, push or rotary-action leads to discharge of a second external capacitor (Cx2). The discharge of first or second external capacitor (Cx1, Cx2) is detected by the processing unit (112) to generate a corresponding activating signal. The metallic element (111) enables switch actuation by touch action and improves the sensitivity of the switch (100).

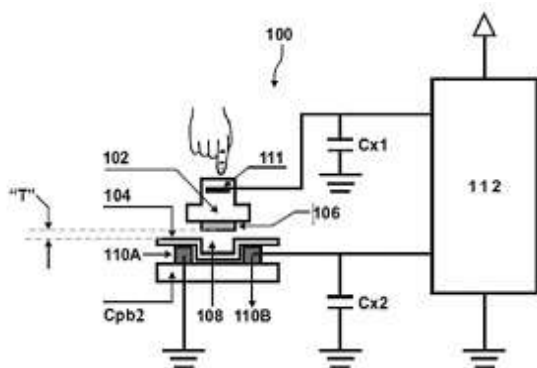


Figure 1

No. of Pages : 34 No. of Claims : 17

(54) Title of the invention : SYSTEMS AND METHODS FOR RECOMMENDING 2D IMAGE

(51) International classification :G06Q0030060000,  
G06T0017000000,  
G05B0019050000,  
G06T0015200000,  
G01S0005000000

(31) Priority Document No :16/714,301

(32) Priority Date :13/12/2019

(33) Name of priority country :U.S.A.

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

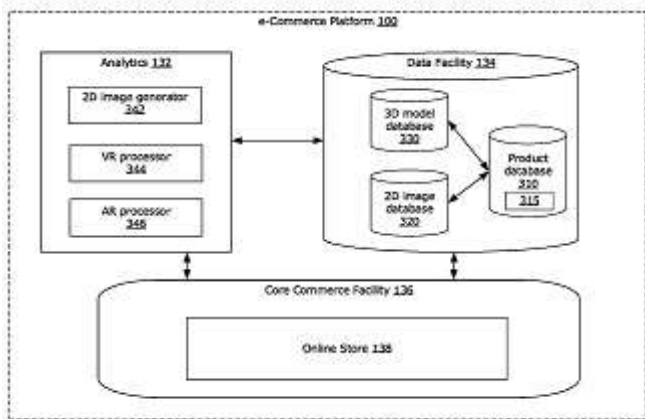
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)Shopify Inc.**  
Address of Applicant :150 Elgin Street, 8th Floor, Ottawa,  
Ontario K2P 1L4, Canada Canada

(72)**Name of Inventor :**  
**1)WADE, Jonathan**  
**2)HAAPOJA, Juho Mikko**

(57) Abstract :

Methods and systems for generating 2D images based on a 3D model are disclosed. 3D three-dimensional (3D) model data associated with a product offering in an online store are sent to a first electronic device, the 3D model data being generated from a stored 3D model. Data representing a selected value for a viewing parameter of the stored 3D model are received from the first electronic device. From the received data, a desired 2D view is determined for a stored 3D model. A recommendation is generated, for a second electronic device, to include the desired 2D view in a stored listing associated with the product offering. [Figure 6]



**FIG. 6**

No. of Pages : 82 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202024053799 A

(19) INDIA

(22) Date of filing of Application :10/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ELECTRONIC DEVICE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06F0003041000, G02F0001133570, H01L0027320000, G06F0003048800, H05K0007020000</p> <p>:201911299638.9</p> <p>:17/12/2019</p> <p>:China</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)<b>Name of Applicant :</b> <b>1)InnoLux Corporation</b> Address of Applicant :No. 160 Kesuyue Rd., Jhu-Nan Site, Hsinchu Science Park, Jhu-Nan 350, Miao-Li County, Taiwan,</p> <p>(72)<b>Name of Inventor :</b> <b>1)Yuan-Lin WU</b> <b>2)Kuan-Feng LEE</b></p>
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(57) Abstract :

An electronic device including a display unit, a touch unit and a driving unit is provided by the present disclosure. The touch unit includes a first region and a second region. The first region and the second region are separately driven by the driving unit, and the display unit is overlapped with the touch unit.

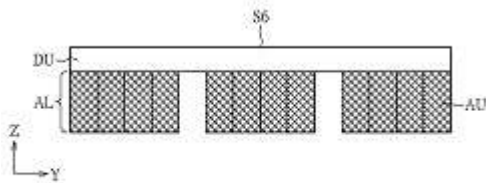


FIG. 17

No. of Pages : 64 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202027035137 A

(19) INDIA

(22) Date of filing of Application :14/08/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL ON BASIS OF HISTORY-BASED MOTION VECTOR PREDICTION

(51) International classification :H04N 19/503, H04N 19/105, H04N 19/423  
(31) Priority Document No :62/778835  
(32) Priority Date :12/12/2018  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/KR2019/017607  
Filing Date :12/12/2019  
(87) International Publication No :WO 2020/122640  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)LG ELECTRONICS INC.**  
Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336 Republic of Korea  
(72)Name of Inventor :  
**1)ZHAO, Jane**  
**2)KIM, Seunghwan**

(57) Abstract :

Disclosed according to the present invention are a method of processing video signals and a device therefor. Specifically, a method of processing video signals on the basis of inter-prediction may comprise the steps of: compiling a merge candidate list on the basis of blocks spatially and temporally neighboring to a current block; adding, to the merge candidate list, a history-based merge candidate that is based on a history of the current block; acquiring a merge index indicating, of the merge candidate list, a merge candidate to be used in inter-prediction for the current block; generating a prediction sample for the current block on the basis of the motion information of the merge candidate indicated by the merge index; and updating the history-based merge candidate list on the basis of the motion information, wherein the history-based merge candidate is added to the merge candidate list if the motion information of the history-based merge candidate is not the same as that of a merge candidate predetermined among the merge candidates included in the merge candidate list.



No. of Pages : 143 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202027036703 A

(19) INDIA

(22) Date of filing of Application :26/08/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESSABLE OPAQUE HIGH-IMPACT MBS FOR PVC, AND METHOD FOR PROCESSING SAME

(51) International classification	:C08F 212/08, C08K 5/098, C08F 220/18, C08L 51/04, C08K 3/22	(71) <b>Name of Applicant :</b> <b>1)SHANDONG DONGLIN NEW MATERIALS CO., LTD</b> Address of Applicant :No.3130 Panlongshan Road, Longshan Hi-Tech Industry Zone, Linqu County Weifang, Shandong 262600 China
(31) Priority Document No	:201910113748.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:14/02/2019	<b>1)ZHANG, Xiaoquan</b>
(33) Name of priority country	:China	<b>2)YI, Tonggang</b>
(86) International Application No	:PCT/CN2019/125413	<b>3)XIA, Yongquan</b>
Filing Date	:14/12/2019	<b>4)ZHAO, Honggang</b>
(87) International Publication No	:WO 2020/164302	<b>5)XU, Duo</b>
(61) Patent of Addition to Application Number	:NA	<b>6)ZOU, Boxiao</b>
Filing Date	:NA	<b>7)LIU, Wen</b>
(62) Divisional to Application Number	:NA	<b>8)MA, Xiaomin</b>
Filing Date	:NA	

(57) Abstract :

Disclosed are processable opaque high-impact MBS for PVC, and a method for preparing same, which relate to the technical field of PVC additive manufacturing and preparation. The processable opaque high-impact MBS for PVC has a three-layer structure of core-nucleus-shell, and is composed of components with the following mass fractions: 1%-20% core layer structure, 70%-85% nucleus layer structure, and 5%-20% shell layer structure, wherein the core layer structure is a semi-rigid slightly cross-linked copolymer of a styrene monomer and an acrylate monomer; the nucleus layer structure is a relatively soft and slightly cross-linked butadiene styrene polymer with a relatively low glass transition temperature; and the shell layer structure is a copolymer with a relatively high glass transition temperature of styrene, butyl acrylate and methyl methacrylate. The problems, such as low impact strength and poor processing fluidity, with an existing MBS product for an opaque PVC product are solved.

No. of Pages : 9 No. of Claims : 12

(54) Title of the invention : QUANTUM DOT LIGHT-EMITTING DEVICE AND MANUFACTURE METHOD THEREFOR

(51) International classification :H01L0051560000,  
H01L0051520000,  
H01L0051500000,  
H01L0051000000,  
H01L0033420000

(31) Priority Document No :201910027598.6

(32) Priority Date :11/01/2019

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/125757  
Filing Date :16/12/2019

(87) International Publication No :WO 2020/143404

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)BOE TECHNOLOGY GROUP CO., LTD.**

Address of Applicant :No. 10 Jiuxianqiao Rd., Chaoyang District Beijing China

**2)BEIJING BOE TECHNOLOGY DEVELOPMENT CO., LTD.**

(72)Name of Inventor :

**1)LI, Dong**

(57) Abstract :

The present application relates to the technical field of display, and discloses a quantum dot light-emitting device and a manufacture method therefor. The quantum dot light-emitting device comprises a first electrode layer (2), a quantum dot light-emitting layer (5), an electron transport layer (6), a second electrode layer (7) and a third electrode layer (8) stacked in sequence. The side of the third electrode layer (8) departing from the first electrode layer (2) is configured as a light exit side; the second electrode layer (7) and the third electrode layer (8) are transparent electrode layers; and the work function of the second electrode layer (7) is greater than the LUMO energy level of the electron transport layer (6) and less than the work function of the third electrode layer (8). According to the quantum dot light-emitting device, the electrode at the light exit side is manufactured into a transparent electrode having a double-layer structure, thereby facilitating electron injection, improving the transmittance of the top electrode, and further improving the light extraction efficiency.



图 1

No. of Pages : 13 No. of Claims : 16

(54) Title of the invention : FLEXIBLE SUBSTRATE AND METHOD FOR PREPARING SAME, AND DISPLAY DEVICE

(51) International classification :H01L0027320000,  
H01L0051520000,  
H01L0051560000,  
H01L0051000000,  
H05K0001180000

(31) Priority Document No :201910023365.9

(32) Priority Date :10/01/2019

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/125376  
Filing Date :13/12/2019

(87) International Publication No :WO 2020/143396

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)BOE TECHNOLOGY GROUP CO., LTD.**

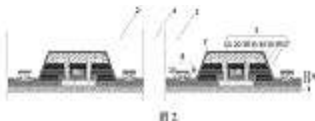
Address of Applicant :No. 10 Jiuxianqiao Rd., Chaoyang District Beijing China

(72)Name of Inventor :

**1)BAN, Shengguang****2)CAO, Zhanfeng****3)WANG, Ke**

(57) Abstract :

Disclosed are a flexible substrate and a method for preparing same, and a display device, wherein same are used for improving the packaging effect and the product yield. The flexible substrate comprises a base substrate (1), wherein the base substrate (1) has a plurality of sub-pixel regions (2) arranged in an array, and a connecting region (3) located between the sub-pixel regions (2) and used for connecting adjacent sub-pixel regions (2), and the base substrate (1) between the sub-pixel regions (2), apart from the connecting region (3), is a hollowed-out region (4). A pixel circuit (5), an isolation structure (6) surrounding the pixel circuit (5), and a light-emitting function layer (7) covering the pixel circuit (5) and the isolation structure (6) are provided in each of the sub-pixel regions (2), wherein the isolation structure (6) has a hollowed-out pattern (29) close to an interface between the sub-pixel region (2) and the connecting region (3). A signal line (31) is provided in the connecting region (3), wherein the signal line (31) is electrically connected to the pixel circuit (5) by means of the hollowed-out pattern (29). The isolation structure (6) has a recess (8) for the disconnection of the light-emitting function layer (7).



No. of Pages : 15 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202027057418 A

(19) INDIA

(22) Date of filing of Application :31/12/2020

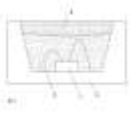
(43) Publication Date : 18/06/2021

(54) Title of the invention : BACKLIGHT MODULE

(51) International classification	:H01L0033480000, H01L0025075000, G02F0001133570, H01L0033500000, H01L0033600000	(71) <b>Name of Applicant :</b> <b>1)SHENZHEN TCL NEW TECHNOLOGY CO., LTD.</b> Address of Applicant :9th Floor, Building D4, TCL International E City No. 1001, Zhongshan Park Road, Xili Street, Nanshan District Shenzhen, Guangdong 518052 China
(31) Priority Document No	:201811555215.4	(72) <b>Name of Inventor :</b>
(32) Priority Date	:18/12/2018	<b>1)LI, Zelong</b>
(33) Name of priority country	:China	<b>2)WANG, Daiqing</b>
(86) International Application No	:PCT/CN2019/125865	<b>3)QIANG, Kewen</b>
Filing Date	:17/12/2019	<b>4)JI, Honglei</b>
(87) International Publication No	:WO 2020/125606	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A backlight module. The backlight module comprises: an LED chip (1), a transparent support (2), and a packaging adhesive (3); an accommodating groove (21) is provided on the transparent support (2), and the LED chip (1) is provided at the bottom of the accommodating groove (21); the packaging adhesive (3) is located in the accommodating groove (21) and covers a light-exiting surface of the LED chip (1). The LED chip (1) and the packaging adhesive (3) are provided in the accommodating groove (21), so that the transparent support (2) and the packaging adhesive (3) enlarge a light-exiting angle of the LED chip (1), thereby reducing the number of the LED chips (1) in the backlight module and reducing the production costs.



No. of Pages : 13 No. of Claims : 15

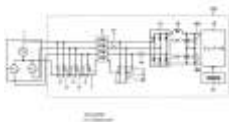


(54) Title of the invention : POWER CONVERSION DEVICE AND AIR CONDITIONER

(51) International classification	:H02M0005458000, H02M0001340000, H02M0007480000, H02M0001140000, G01R0031640000	(71) <b>Name of Applicant :</b> <b>1)MITSUBISHI ELECTRIC CORPORATION</b> Address of Applicant :7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310 Japan
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)YAMAKAWA, Hidetoshi</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2018/033857	
Filing Date	:12/09/2018	
(87) International Publication No	:WO 2020/053995	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This power conversion device (100) is provided with: a diode bridge (15) for converting a first AC power supplied from a power supply (1) to a DC power; a main circuit capacitor (capacitors (17A, 17B)) for smoothing the DC power; an inverter (19) for converting the DC power after being smoothed to a second AC power to supply the second AC power to a load; capacitors (10, 11) for suppressing noise components contained in the first AC power; and a path switching unit (relays (13, 14, 20) and a control unit (21)) for switching paths for charging the main circuit capacitor so that the current output from the power supply (1) flows into the main circuit capacitor via the capacitors (10, 11) from the start of the supply of the first AC power until the voltage of the main circuit capacitor becomes a predetermined voltage and the current output from the power supply (1) flows into the main circuit capacitor without going through the capacitors (10, 11) after the voltage of the main circuit capacitor has become the predetermined voltage.



No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127004693 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ASSEMBLY COMPRISING A FIRST AND A SECOND MEMBER AND A CONNECTOR, AND A METHOD OF ASSEMBLING SUCH AN ASSEMBLY

(51) International classification :A61M0005240000,  
E04F0011180000,  
H02G0015180000,  
B01L0003000000,  
B60S0001380000

(31) Priority Document No :2021462  
(32) Priority Date :13/08/2018  
(33) Name of priority country :Netherlands  
(86) International Application No :PCT/IB2019/056792  
Filing Date :09/08/2019  
(87) International Publication No :WO 2020/035770  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)SIEMENS GAMESA RENEWABLE ENERGY B.V.**

Address of Applicant :Prinses Beatrixlaan 800 2595 BN Den Haag Netherlands

(72)Name of Inventor :

**1)WINKES, Jasper**

(57) Abstract :

The present invention relates to an assembly, comprising: - a first and a second member, wherein; - the second member has a fork-shaped cross section with a main body and two substantially parallel walls that each comprise at least one through hole; - the first member is arranged between the two walls of the second member, having the through hole; - wherein said through hole of the first member and the through holes of the second member define a channel; and - further comprising a connector that is axially insertable in said channel to an end position and consecutively expandable radially relative to said channel, to connect the first and second member relative to each other; and - wherein the connector, in an expanded state thereof, pushes the first member against the main body of the second member to define a pre-tensioned connection between the first member and the second member. The invention further relates to a method of assembling a first and a second member.



No. of Pages : 14 No. of Claims : 25

(54) Title of the invention : SIGNAL TRANSMISSION METHOD AND APPARATUS, TERMINAL DEVICE, AND NETWORK DEVICE

(51) International classification :H04W0074080000,  
H04W0072040000,  
H04W0076270000,  
H04W0036000000,  
H04W0056000000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2018/097041  
Filing Date :25/07/2018  
(87) International Publication No :WO 2020/019194  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.**  
Address of Applicant :No.18 Haibin Road, Wusha, Chang' an, Dongguan, Guangdong 523860 China  
(72)Name of Inventor :  
**1)TANG, Hai**

(57) Abstract :

Disclosed are a signal transmission method and apparatus, a terminal device, and a network device. The method comprises: during a first-type random access process, a terminal device sends a first message to a network device and obtains first indication information from the network device, the first message comprising a first preamble and first uplink data; the terminal device determines, on the basis of the first indication information, whether to resend the first message to the network device, the resent first message comprising the first preamble and/or the first uplink data, or whether to fall back to a second-type random access process from the first-type random access process.



图 5

501 During a first-type random access process, a terminal device sends a first message to a network device and obtains first indication information from the network device, the first message comprising a first preamble and first uplink data  
502 The terminal device determines, on the basis of the first indication information, whether to resend the first message to the network device, the resent first message comprising the first preamble and/or the first uplink data, or whether to fall back to a second-type random access process from the first-type random access process

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127004711 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : OPEN-CIRCUIT ELECTROLUMINESCENCE

(51) International classification :G01R0031385000,  
G01N0003020000,  
G01N0027020000,  
G01N0021660000,  
G01N0011000000

(31) Priority Document No :16/027471

(32) Priority Date :05/07/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/040256  
Filing Date :02/07/2019

(87) International Publication No :WO 2020/010057

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)AHURATECH LLC**

Address of Applicant :12619 Grand River Road Brighton,  
Michigan 48116 U.S.A.

(72)Name of Inventor :

**1)AKHAVAN-TAFTI, Hashem**

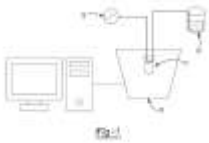
**2)AKHAVAN-TAFTI, Mojtaba**

**3)BOLANDI, Ali**

**4)HANDLEY, Richard**

(57) Abstract :

Methods of producing luminescence by application of a time-varying electrical signal to an electroluminescent device are disclosed whereby the entire system remains at open circuit. At least one article, substance or material, the object, is employed to alter the electrical signal to the area of the electroluminescent device to a level sufficient to change light emission. Methods are disclosed to relate the light intensity thus produced to a property of the object thereby allowing a measurement of the property. The electric signal-altering substance, material or object(s) can comprise part of the transmission medium or be placed on or near the electroluminescent device. The method may optionally use one or more additional circuit components.



No. of Pages : 50 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127004771 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

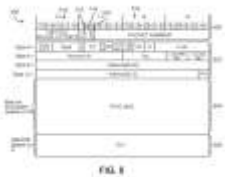
(43) Publication Date : 18/06/2021

(54) Title of the invention : SECURITY TECHNIQUES FOR A PERIPHERAL COMPONENT INTERCONNECT (PCI) EXPRESS (PCIE) SYSTEM

(51) International classification	:H04L0029060000, G06F0013420000, G06F0013400000, H04W0012100000, H04M0001274850	(71) <b>Name of Applicant :</b> <b>1)QUALCOMM INCORPORATED</b> Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:62/731286	(72) <b>Name of Inventor :</b>
(32) Priority Date	:14/09/2018	<b>1)BENJAMINI, Yiftach</b>
(33) Name of priority country	:U.S.A.	<b>2)AMARILIO, Lior</b>
(86) International Application No	:PCT/US2019/051240	<b>3)GIL, Amit</b>
Filing Date	:16/09/2019	<b>4)PANIAN, James, Lionel</b>
(87) International Publication No	:WO 2020/056398	<b>5)SHAOOL, Dafna</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Security techniques for a Peripheral Component Interconnect (PCI) express (PCIE) system include a transport layer protocol (TLP) packet that has a prepended TLP prefix indicating the security features of the TLP packet and an integrity check value (ICV) appended to the TLP packet. The ICV is based on the TLP packet and any TLP prefixes including a security prefix. At a receiver, if the ICV does not match, then the receiver has evidence that the TLP packet may have been subjected to tampering. Further, the TLP packet may be encrypted to prevent snooping, and this feature would be indicated in the TLP prefix. Still further, the TLP prefix may include a counter that may be used to prevent replay attacks. PCIE contemplates flexible TLP prefixes, and thus, the standard readily accommodates the addition of a TLP prefix which indicates the security features of the TLP packet.



No. of Pages : 21 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127004776 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A PANEL CONSTRUCTION, A PROCESS FOR PREPARING THE SAME AND USE THEREOF AS AN AUTOMOTIVE PART

(51) International classification	:E04F0013080000, B32B0007020000, B05D0003060000, B32B0005280000, C09D0007620000	(71) <b>Name of Applicant :</b> <b>1)BASF SE</b> Address of Applicant :Carl-Bosch-Strasse 38 67056 Ludwigshafen am Rhein Germany
(31) Priority Document No	:62/703935	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/07/2018	<b>1)SHAKOUR, Elias Ruda</b>
(33) Name of priority country	:U.S.A.	<b>2)LYONS, Robert</b>
(86) International Application No	:PCT/EP2019/070182	<b>3)SHANER, Brian E</b>
Filing Date	:26/07/2019	<b>4)SEAVER, Todd A</b>
(87) International Publication No	:WO 2020/021066	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a panel construction, a process for preparing the same and use thereof as an automotive part.

No. of Pages : 36 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127004777 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : VANADIUM-BASED SELECTIVE CATALYTIC REDUCTION CATALYST

(51) International classification	:B01D0053940000, B01J0035040000, B01J0037020000, B01J0021060000, F01N0003035000	(71) <b>Name of Applicant :</b> <b>1)BASF CORPORATION</b> Address of Applicant :100 Park Avenue Florham Park, New Jersey 07932 U.S.A. <b>2)BASF SE</b>
(31) Priority Document No	:18186280.6	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/07/2018	<b>1)HUENNEKES, Edgar Viktor</b>
(33) Name of priority country	:EPO	<b>2)PATCHETT, Joseph A</b>
(86) International Application No	:PCT/EP2019/070473	<b>3)CORDES, Petra</b>
Filing Date	:30/07/2019	<b>4)BEARD, Kevin David</b>
(87) International Publication No	:WO 2020/025604	<b>5)BECKER, Jan Martin</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a selective catalytic reduction catalyst for the treatment of an exhaust gas of a diesel engine comprising (i) a flow-through substrate comprising an inlet end, an outlet end, a substrate axial length extending from the inlet end to the outlet end and a plurality of passages defined by internal walls of the flow-through substrate extending therethrough; (II) a coating disposed on the surface of the internal walls of the substrate, where- in the surface defines the interface between the passages and the internal walls, wherein the coating comprises a vanadium oxide supported on an oxidic material comprising titania, and further comprises a mixed oxide of vanadium and one or more of iron, erbium, bismuth, cerium, europium, gadolinium, holmium, lanthanum, lutetium, neodymium, praseodymium, promethium, samarium, scandium, terbium, thulium, ytterbium, yttrium, molybdenum, tungsten, manganese, cobalt, nickel, copper, aluminum and antimony.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127004788 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CARTRIDGE COVERING ELEMENT FOR SEALING OFF A MICROFLUIDIC CARTRIDGE

(51) International classification	:B01L0003000000, C08K0007220000, B29C0065480000, C09J0163000000, A61M0016000000	(71) <b>Name of Applicant :</b> <b>1)LOHMANN GMBH &amp; CO. KG</b> Address of Applicant :Irlicher Strae 55 56567 Neuwied Germany
(31) Priority Document No	:10 2018 118 581.2	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/07/2018	<b>1)KHL, Oliver</b>
(33) Name of priority country	:Germany	<b>2)SCHINDLER, Kerstin</b>
(86) International Application No	:PCT/EP2019/070622	<b>3)SUNDRUM, Cornelia</b>
Filing Date	:31/07/2019	<b>4)ROTHER, Raimund</b>
(87) International Publication No	:WO 2020/025670	<b>5)STRELLER, Rouven</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a cartridge covering element (10) for sealing off a microfluidic cartridge (20), comprising: at least one stratified adhesive mass (30), said stratified adhesive mass (30) being UV-activatable to induce curing and being tacky at room temperature prior to and after activation until expiry of an open time.

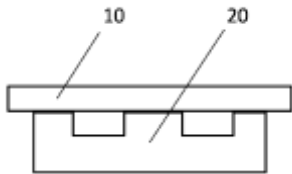


Fig. 5

No. of Pages : 23 No. of Claims : 15



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127004798 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : UV-SINTERABLE MOLECULAR INK AND PROCESSING THEREOF USING BROAD SPECTRUM UV LIGHT

(51) International classification	:C09D0011520000, H05K0001090000, C09D0011300000, C09D0005240000, H01B0001220000	(71) <b>Name of Applicant :</b> <b>1)NATIONAL RESEARCH COUNCIL OF CANADA</b> Address of Applicant :1200 Montreal Road Ottawa, Ontario K1A 0R6 Canada
(31) Priority Document No	:62/714363	(72) <b>Name of Inventor :</b>
(32) Priority Date	:03/08/2018	<b>1)LIU, Xiangyang</b>
(33) Name of priority country	:U.S.A.	<b>2)DING, Jianfu</b>
(86) International Application No	:PCT/IB2019/056612	<b>3)MALENFANT, Patrick Roland Lucien</b>
Filing Date	:02/08/2019	<b>4)PAQUET, Chantal</b>
(87) International Publication No	:WO 2020/026207	<b>5)KELL, Arnold J.</b>
(61) Patent of Addition to Application Number	:NA	<b>6)DEORE, Bhavana</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A printable molecular ink that is can be treated (e.g. dried or curable) and sintered using broad spectrum ultraviolet light is provided to produce electrically conductive traces on a low temperature substrate, for example PET. The ink includes a silver or copper carboxylate, an organic amine compound, and may include a thermal protecting agent.



Fig. 1A



Fig. 1B

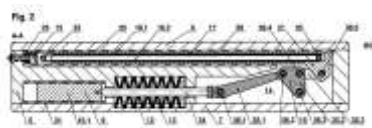
No. of Pages : 42 No. of Claims : 31

(54) Title of the invention : BRAKE HAVING A WEDGE GEAR AND MECHANICAL ENERGY STORE, AND METHOD FOR THE OPERATION THEREOF

(51) International classification	:F16D0121320000, F16D0125660000, F16D0063000000, F16D0121140000, B60W0010110000	(71)Name of Applicant : <b>1)CHR. MAYR GMBH + CO. KG</b> Address of Applicant :Eichenstrae 1 87665 Mauerstetten Germany
(31) Priority Document No	:10 2018 116 437.8	(72)Name of Inventor :
(32) Priority Date	:06/07/2018	<b>1)MLLER, Alexander</b>
(33) Name of priority country	:Germany	<b>2)PERNER, Norman</b>
(86) International Application No	:PCT/DE2019/000172	<b>3)REICHLE, Martin</b>
Filing Date	:03/07/2019	<b>4)TZSCHORN, Wolfgang</b>
(87) International Publication No	:WO 2020/007384	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

The invention relates to a brake, comprising a brake housing; at least one clamping body for applying brake force to a linearly moving or rotating counter piece to be braked; a mechanical energy store having a spring arrangement, which during braking applies force to an actuating piston of a wedge gear, which actuating piston is in at least indirect drive connection with the clamping body until the braking position is reached; an actuator device for ventilating the brake; and a fixing device for controllably holding the brake ventilation position. The invention comprises an actuator device having a mechanical gearbox and a shape memory actuator, wherein in the brake ventilation position, the fixing device at least indirectly acts upon the spring arrangement or a separate brake release assembly in the mechanical gearbox via the mechanical gearbox, and the gearbox input side of the mechanical gearbox is in constant drive connection with the shape memory actuator, and the gearbox output side of the mechanical gearbox is in constant drive connection with the spring arrangement. The shape memory actuator is configured such that in an activated state, said shape memory actuator moves the spring arrangement into the brake ventilation position by means of the mechanical gearbox; and the gradient of the transmission ratio of the mechanical gearbox increases for the entire course of the transmission movement directed against the force of the spring arrangement in the direction of the brake ventilation position, wherein in the brake ventilation position, the magnitude of the transmission ratio of the mechanical gearbox is greater than one and corresponds to at least twice the transmission ratio in the braking position.



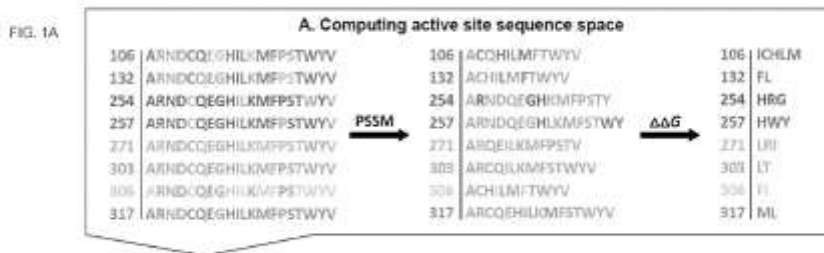
No. of Pages : 28 No. of Claims : 19

(54) Title of the invention : DESIGNED, EFFICIENT AND BROAD-SPECIFICITY ORGANOPHOSPHATE HYDROLASES

(51) International classification	:C12N0009160000, C07K0016320000, B01J0031060000, C09D0004000000, B01J0031120000	(71)Name of Applicant : <b>1)YEDA RESEARCH AND DEVELOPMENT CO. LTD.</b> Address of Applicant :at the Weizmann Institute of Science P.O. Box 95 7610002 Rehovot Israel
(31) Priority Document No	:261157	(72)Name of Inventor :
(32) Priority Date	:14/08/2018	<b>1)FLEISHMAN, Sarel</b>
(33) Name of priority country	:Israel	<b>2)TAWFIK, Dan S.</b>
(86) International Application No	:PCT/IL2019/050916	<b>3)KHERSONSKY, Olga</b>
Filing Date	:14/08/2019	
(87) International Publication No	:WO 2020/035865	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is a library of designed phosphotriesterase (PTE) enzymes, exhibiting an improved catalytic hydrolysis activity of various substrates, including nerve agents, and a general method of generating and using the same.



No. of Pages : 64 No. of Claims : 8

(54) Title of the invention : UCI COMBINED TRANSMISSION METHOD, TERMINAL, AND NETWORK DEVICE

(51) International classification	:H04W0072040000, H04L0005000000, H04W0072120000, H04L0001000000, H04L0001180000	(71)Name of Applicant : <b>1)DATANG MOBILE COMMUNICATIONS EQUIPMENT CO., LTD.</b> Address of Applicant :No. 29 Xueyuan Rd., Haidian District Beijing 100083 China
(31) Priority Document No	:201810918467.2	(72)Name of Inventor :
(32) Priority Date	:13/08/2018	<b>1)GAO, Xuejuan</b>
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2019/097371	
Filing Date	:23/07/2019	
(87) International Publication No	:WO 2020/034813	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a UCI combined transmission method, a terminal, and a network device. The method comprises: when determining that a transmission resource of a first UCI overlaps transmission resources of a plurality of second UCIs in a time domain, a terminal selects the transmission resource of one second UCI from the transmission resources of the plurality of second UCIs according to an initial position of the transmission resource of the first UCI and the initial position of the transmission resources of the second UCIs, so as to simultaneously transmit the first UCI and the selected second UCI on the transmission resource of the selected second UCI. Accordingly, a network can also simultaneously receive the first UCI and the selected second UCI on the transmission resource of the selected second UCI with the same method. By means of the method, it can be ensured that the understandings of the base station and the terminal on the UCI combined transmission are consistent in the case that transmission resources of different UCIs overlap in the time domain.



201: A terminal determines that a transmission resource of a first UCI overlaps transmission resources of a plurality of second UCIs in a time domain, and the terminal determines the initial position of the transmission resource of the first UCI and the initial positions of the transmission resources of the second UCIs.

202: The terminal selects one second UCI from the second UCIs according to the initial position of the transmission resource of the first UCI and the initial positions of the transmission resources of the second UCIs.

203: The terminal simultaneously transmits the first UCI and the selected second UCI on the transmission resource of the selected second UCI.

No. of Pages : 36 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127006542 A

(19) INDIA

(22) Date of filing of Application :17/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : UPLINK PREEMPTION INDICATION

(51) International classification	:H04W0072040000, H04L0005000000, H04W0072100000, H04W0074080000, H04W0072140000
(31) Priority Document No	:62/736448
(32) Priority Date	:25/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/052825
Filing Date	:25/09/2019
(87) International Publication No	:WO 2020/068898
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**1)HOSSEINI, Seyedkianoush**

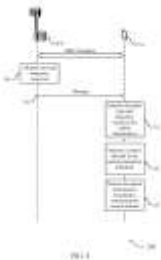
**2)CHEN, Wanshi**

**3)LI, Chih-Ping**

**4)JIANG, Jing**

(57) Abstract :

Methods, systems, and devices for wireless communications are described. A user equipment (UE) may receive, from a base station in wireless communication with the UE, an allocation of time and frequency resources for an uplink transmission of a first communication type associated with a threshold reliability or latency metric. The UE may monitor a control channel for an uplink preemption indication from the base station, the uplink preemption indication indicating whether the UE should transmit the uplink transmission using the first communication type associated with the threshold reliability or latency metric. The UE may then process the uplink transmission based on monitoring the control channel for the uplink preemption indication.



No. of Pages : 53 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127006547 A

(19) INDIA

(22) Date of filing of Application :17/02/2021

(43) Publication Date : 18/06/2021

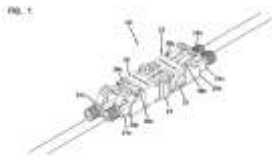
(54) Title of the invention : FIBER OPTIC CONNECTORS, FIBER OPTIC ADAPTERS AND RELATED FIBER OPTIC CONNECTION SYSTEMS

(51) International classification	:G02B0006380000, G02B0006360000, G02B0006255000, H01R0033940000, G02B0006440000
(31) Priority Document No	:62/724356
(32) Priority Date	:29/08/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/047704
Filing Date	:22/08/2019
(87) International Publication No	:WO 2020/046709
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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 North Carolina 28602 U.S.A.  
 (72)**Name of Inventor :**  
**1)VERHEYDEN, Danny Willy August**

(57) Abstract :

The present disclosure relates to a fiber optic adapter having a footprint/form factor compatible with an SC adapter mounting structure or an LC adapter mounting structure or both the SC and LC adapter mounting structures. The adapter body may include first and second co-axially aligned connector ports for respectively receiving first and second fiber optic connectors. The fiber optic adapter may also include a fiber alignment structure configured to accommodate at least 12 optical fibers (e.g., 12 non-ferrulized optical fibers) for each of the first and second connector ports. Another aspect of the present disclosure relates to a fiber optic adapter with linearly moveable, spring biased shutters. A further aspect of the present disclosure relates to a ferrule-less fiber optic connector that may include a telescopic shroud and a safety lock for locking the shroud in a fiber protecting position. A further aspect of the present disclosure relates to a ferrule-less fiber optic connector with a spring-biased fiber holder.



No. of Pages : 23 No. of Claims : 52

(54) Title of the invention : STATOR FOR AN ELECTRICAL MACHINE

(51) International classification	:H02K0003120000, H02K0003280000, H02K0015000000, H02K0015020000, H02K0003480000	(71) <b>Name of Applicant :</b> <b>1)MIBA EMOBILITY GMBH</b> Address of Applicant :Dr. Mitterbauer-Strae 3 4663 Laarkirchen Austria
(31) Priority Document No	:A50756/2018	(72) <b>Name of Inventor :</b> <b>1)EILENBERGER, Andreas</b>
(32) Priority Date	:05/09/2018	
(33) Name of priority country	:Austria	
(86) International Application No	:PCT/AT2019/060275	
Filing Date	:27/08/2019	
(87) International Publication No	:WO 2020/047568	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a stator (1) for an electrical machine, comprising a substantially hollow-cylindrical laminated core (2) with a plurality of receiving slots (4) which are arranged in a distributed manner. For each receiving slot (4), a plurality of electrical conductor sections (La, Lb), which are formed by shaped bars, form a stator winding (14) comprising at least two winding elements (TWa, TWb). The at least two electrical winding elements (TWa, TWb) are each formed at least by a first and a second winding segment (WSa, WSb) which are connected electrically in series, wherein conductor sections (La, Lb) of the first winding segment (WSa) are electrically connected to one another by means of first and second electrical connecting sections (VBa, VBb) in such a way that a helical current path (17a) is defined along a first radial direction (18a) in relation to the longitudinal axis (3) of the laminated core (2) and conductor sections (La, Lb) of the second winding segment (WSb) are electrically connected to one another by means of first and second electrical connecting sections (VBa, VBb) in such a way that a second helical current path (17b) is defined along an opposite, second radial direction (18b) in relation to the longitudinal axis (3) of the laminated core (2).



No. of Pages : 31 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202127006599 A

(19) INDIA

(22) Date of filing of Application :17/02/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CLEANING DEVICE FOR PRINTING HEADS

(51) International classification :B41J0002165000,  
B41J0003540000,  
A46B0005000000,  
B66C0001660000,  
B41J0002210000

(31) Priority Document No :102018000008818

(32) Priority Date :21/09/2018

(33) Name of priority country :Italy

(86) International Application No :PCT/IB2019/057437  
Filing Date :04/09/2019

(87) International Publication No :WO 2020/058792

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

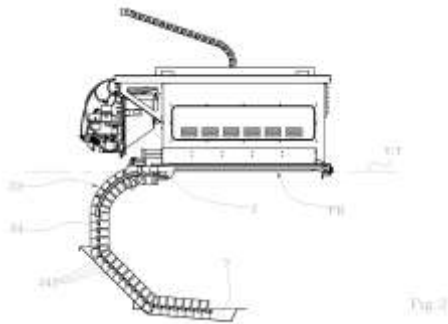
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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(72)**Name of Inventor :**  
**1)STEFANI, Franco**

(57) Abstract :

A cleaning device for printing heads arranged in a group along an alignment direction (Y) with a lower surface lying on a main plane (T). The device comprises a collecting head (2), movable along the alignment direction (Y) on the main plane (Y), in contact with or near the lower surfaces of the heads. The print head (2) is movable between a first and a second position that are located at the ends of the group of heads. The collecting head (2) is provided with an inlet opening (21) for collecting material from the heads (T).



No. of Pages : 13 No. of Claims : 12



(54) Title of the invention : METHOD FOR PROCESSING MULTI-TRANSMISSION RECEPTION POINT (TRP) DATA, BASE STATION, TERMINAL, AND STORAGE MEDIUM

(51) International classification	:H04L0005000000, H04W0072040000, H04L0001000000, H04W0072120000, H04L0001180000	(71)Name of Applicant : <b>1)DATANG MOBILE COMMUNICATIONS EQUIPMENT CO., LTD.</b> Address of Applicant :No. 29 Xueyuan Rd., Haidian District Beijing 100083 China
(31) Priority Document No	:201811039285.4	(72)Name of Inventor :
(32) Priority Date	:06/09/2018	<b>1)MIAO, Deshan</b>
(33) Name of priority country	:China	<b>2)SU, Xin</b>
(86) International Application No	:PCT/CN2019/091904	<b>3)GAO, Qiubin</b>
Filing Date	:19/06/2019	<b>4)CHEN, Runhua</b>
(87) International Publication No	:WO 2020/048181	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a method for processing multi-transmission reception point (TRP) data, a base station, a terminal, and a storage medium, used for solving the technical problem in the prior art of low reliability of data transmission when data is transmitted by using multiple TRPs. The method comprises: a base station generates a resource allocation instruction and a quasi co-location (QCL) instruction according to the mapping relations between a transmission coding block of data to be transmitted and multiple TRPs, wherein the QCL instruction is used for indicating the associations between an allocated resource and the QCL identifiers of the multiple TRPs, and the allocated resource comprises a time-frequency resource or a demodulation reference signal (DMRS) port resource; and sends downlink control information (DCI) to a user terminal, the DCI comprising at least the resource allocation instruction and the QCL instruction as well as a data merging and detection instruction, so as to instruct the user terminal to perform, according to the mapping relation between resource allocation and QCL, merging, encoding and detection on data signals received from the multiple TRPs.



No. of Pages : 50 No. of Claims : 17

(54) Title of the invention : PERSONAL SHIELDING DEVICE

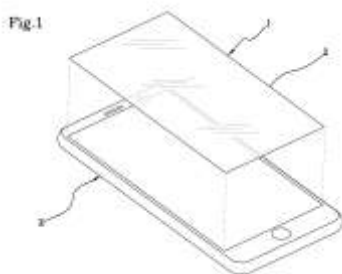
(51) International classification :H05K0009000000,  
H05K0007200000,  
H04B0001382700,  
G06F0003041000,  
G06F0003048400

(31) Priority Document No :102018000007357  
(32) Priority Date :19/07/2018  
(33) Name of priority country :Italy  
(86) International Application No :PCT/IB2019/056059  
Filing Date :16/07/2019  
(87) International Publication No :WO 2020/016773  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)VIGNI, Tiziana**  
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(72)**Name of Inventor :**  
**1)VIGNI, Tiziana**  
**2)VIGNI, Tiziana**

(57) Abstract :

A personal shielding device, applicable to a screen, in particular a touch screen, of an electronic device (E), which comprises an absorbent sheet (2) made at least partially with a metal material. The absorbent sheet (2) is adapted to absorb the electromagnetic waves emitted by the electronic device (E) in the direction of the user.



No. of Pages : 10 No. of Claims : 11

(54) Title of the invention : CRYSTALLINE EPINEPHRINE MALONATE SALT

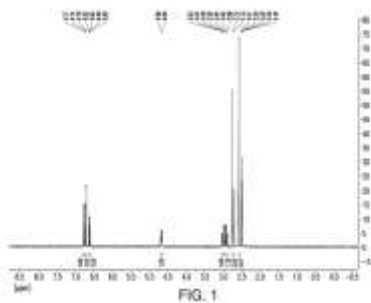
(51) International classification :A61K0009000000,  
A61K0031137000,  
A61K0009200000,  
A61K0009190000,  
C07C0215600000

(31) Priority Document No :62/711936  
(32) Priority Date :30/07/2018  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2019/043856  
Filing Date :29/07/2019  
(87) International Publication No :WO 2020/028215  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)BIOTHEA PHARMA, INC.**  
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Massachusetts 02110 U.S.A.  
(72)**Name of Inventor :**  
**1)SOMMADOSSI, Jean-Pierre**  
**2)MOUSSA, Adel**

(57) Abstract :

Described herein are epinephrine salts, specifically the epinephrine malonate salt; the epinephrine malonate salt in crystalline form; a pharmaceutical composition comprising epinephrine malonate; a sublingual or buccal pharmaceutical composition comprising epinephrine malonate in crystalline form; and a method for treating a patient comprising administering a pharmaceutical composition of epinephrine malonate in crystalline form.



No. of Pages : 30 No. of Claims : 26

(54) Title of the invention : NETWORK COMMUNICATION STATE DETECTION METHOD, CONFIGURATION METHOD, TERMINAL, AND NETWORK DEVICE

(51) International classification :H04W0024080000,  
H04L0012260000,  
H04L0012240000,  
H04B0007060000,  
H04N0005235000

(31) Priority Document No :201810792236.1

(32) Priority Date :18/07/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/094541  
Filing Date :03/07/2019

(87) International Publication No :WO 2020/015530

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :#283, BBK Road, Wusha, Chang'an  
Dongguan, Guangdong 523860 China

(72)Name of Inventor :  
**1)CHEN, Li**

(57) Abstract :

The present disclosure relates to the technical field of communications, and provides a network communication state detection method, a configuration method, a terminal, and a network device. The network communication state detection method is applied to a terminal, and comprises: obtaining a monitoring configuration parameter of a reference state, wherein the monitoring configuration parameter comprises at least one set of reference state configuration parameters; and on the basis of the monitoring configuration parameter, performing a detection process corresponding to the reference state, wherein the reference state comprises radio link monitoring (RLM) and/or beam failure detection (BFD).



No. of Pages : 30 No. of Claims : 26

(54) Title of the invention : SYNERGISTIC COMPOSITIONS •

(51) International classification :C07D0233580000,  
C07C0279140000,  
C07D0207333000,  
C07C0215100000,  
C07C0215400000

(31) Priority Document No :2276/MUM/2013

(32) Priority Date :05/07/2013

(33) Name of priority country :India

(86) International Application No :PCT/IN2014/000445  
Filing Date :04/07/2014

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :3416/MUMNP/2015  
Filed on :02/12/2015

(71)Name of Applicant :

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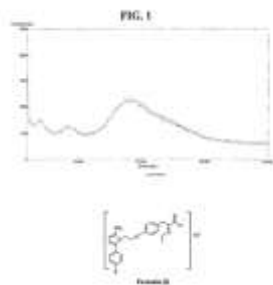
Address of Applicant :Zydus Corporate Park, Scheme No. 63,  
Survey No. 536, Khoraj (Gandhinagar), Nr. Vaishnodevi Circle,  
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(72)Name of Inventor :

**1)JAIN, Mukul, R.****2)GIRI, Suresh****3)KOTHARI, Himanshu, M.****4)BANERJEE, Kaushik****5)KACHHIYA, Rashmikant**

(57) Abstract :

ABSTRACT SYNERGISTIC COMPOSITIONS • The present invention describes a synergistic composition comprising of one or more statins, or one or more dipeptidyl peptidase IV (DPP IV) inhibitor or one or more biguanide antihyperglycaemic agent and a PPAR agonist of formula (Ia) for the treatment of diabetes, especially non-insulin dependent diabetes (NIDDM) or Type 2 diabetes and conditions associated with diabetes mellitus and to compositions suitable for use in such method. The invention also describes the preparation of such compositions. The present invention also relates to certain novel salts of the PPAR agonist of formula (I), processes for the preparation of : these novel salts and use thereof. figure 1



No. of Pages : 93 No. of Claims : 4

(54) Title of the invention : METHOD AND DEVICE FOR ENCODING/DECODING MOTION VECTOR

(51) International classification :H04N0019520000,  
H04N0019139000,  
H04N0019176000,  
H04N0019510000,  
H04N0019129000

(31) Priority Document No :62/073,326

(32) Priority Date :31/10/2014

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/KR2015/011647  
Filing Date :02/11/2015

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

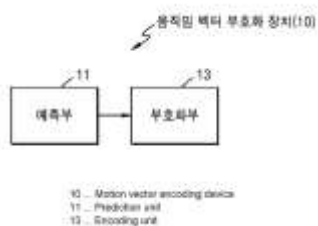
(62) Divisional to Application Number :201727015057  
Filed on :28/04/2017

(71)Name of Applicant :  
**1)SAMSUNG ELECTRONICS CO., LTD.**  
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Suwon-si Gyeonggi-do 16677, Republic of Korea

(72)Name of Inventor :  
**1)LEE, Jin-young**  
**2)JEONG, Seung-soo**  
**3)MIN, Jung-hye**  
**4)LEE, Sun-il**

(57) Abstract :

**METHOD AND DEVICE FOR ENCODING/DECODING MOTION VECTOR** • A motion vector encoding apparatus includes: a predictor configured to obtain motion vector predictor candidates of a plurality of predetermined motion vector resolutions by using a spatial candidate block and a temporal candidate block of a current block, and to determine motion vector predictor of the current block, a motion vector of the current block, and a motion vector resolution of the current block by using the motion vector predictor candidates; and an encoder configured to encode information representing the motion vector predictor of the current block, a residual motion vector between the motion vector of the current block and the motion vector predictor of the current block, and information representing the motion vector resolution of the current block, wherein the plurality of predetermined motion vector resolutions include a resolution of a pixel unit that is greater than a resolution of one-pel unit. [Figure 1A]



No. of Pages : 103 No. of Claims : 2

(54) Title of the invention : METHOD AND DEVICE FOR ENCODING/DECODING MOTION VECTOR

(51) International classification :H04N0019520000,  
H04N0019139000,  
H04N0019176000,  
H04N0019510000,  
H04N0019129000

(31) Priority Document No :62/073,326

(32) Priority Date :31/10/2014

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/KR2015/011647  
Filing Date :02/11/2015

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

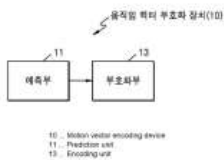
(62) Divisional to Application Number :201727015057  
Filed on :28/04/2017

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(72)**Name of Inventor :**  
**1)LEE, Jin-young**  
**2)JEONG, Seung-soo**  
**3)MIN, Jung-hye**  
**4)LEE, Sun-il**

(57) Abstract :

A motion vector encoding apparatus includes: a predictor configured to obtain motion vector predictor candidates of a plurality of predetermined motion vector resolutions by using a spatial candidate block and a temporal candidate block of a current block, and to determine motion vector predictor of the current block, a motion vector of the current block, and a motion vector resolution of the current block by using the motion vector predictor candidates; and an encoder configured to encode information representing the motion vector predictor of the current block, a residual motion vector between the motion vector of the current block and the motion vector predictor of the current block, and information representing the motion vector resolution of the current block, wherein the plurality of predetermined motion vector resolutions include a resolution of a pixel unit that is greater than a resolution of one-pel unit. [Figure 1A] 73



No. of Pages : 103 No. of Claims : 2

(54) Title of the invention : METHOD AND DEVICE FOR ENCODING/DECODING MOTION VECTOR

(51) International classification :H04N0019520000,  
H04N0019139000,  
H04N0019176000,  
H04N0019510000,  
H04N0019129000

(31) Priority Document No :62/073,326

(32) Priority Date :31/10/2014

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/KR2015/011647  
Filing Date :02/11/2015

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

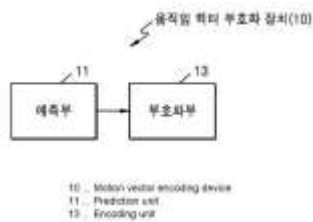
(62) Divisional to Application Number :201727015057  
Filed on :28/04/2017

(71)Name of Applicant :  
**1)SAMSUNG ELECTRONICS CO., LTD.**  
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(72)Name of Inventor :  
**1)LEE, Jin-young**  
**2)JEONG, Seung-soo**  
**3)MIN, Jung-hye**  
**4)LEE, Sun-il**

(57) Abstract :

A motion vector encoding apparatus includes: a predictor configured to obtain motion vector predictor candidates of a plurality of predetermined motion vector resolutions by using a spatial candidate block and a temporal candidate block of a current block, and to determine motion vector predictor of the current block, a motion vector of the current block, and a motion vector resolution of the current block by using the motion vector predictor candidates; and an encoder configured to encode information representing the motion vector predictor of the current block, a residual motion vector between the motion vector of the current block and the motion vector predictor of the current block, and information representing the motion vector resolution of the current block, wherein the plurality of predetermined motion vector resolutions include a resolution of a pixel unit that is greater than a resolution of one-pel unit. [Figure 1A]



No. of Pages : 103 No. of Claims : 2



(54) Title of the invention : METHOD AND DEVICE FOR ENCODING/DECODING MOTION VECTOR

(51) International classification :H04N0019520000,  
H04N0019139000,  
H04N0019176000,  
H04N0019510000,  
H04N0019129000

(31) Priority Document No :62/073,326

(32) Priority Date :31/10/2014

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/KR2015/011647  
Filing Date :02/11/2015

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

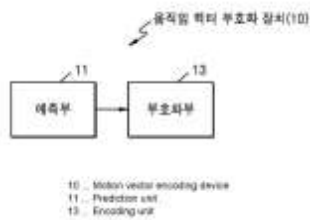
(62) Divisional to Application Number :201727015057  
Filed on :28/04/2017

(71)Name of Applicant :  
**1)SAMSUNG ELECTRONICS CO., LTD.**  
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(72)Name of Inventor :  
**1)LEE, Jin-young**  
**2)JEONG, Seung-soo**  
**3)MIN, Jung-hye**  
**4)LEE, Sun-il**

(57) Abstract :

A motion vector encoding apparatus includes: a predictor configured to obtain motion vector predictor candidates of a plurality of predetermined motion vector resolutions by using a spatial candidate block and a temporal candidate block of a current block, and to determine motion vector predictor of the current block, a motion vector of the current block, and a motion vector resolution of the current block by using the motion vector predictor candidates; and an encoder configured to encode information representing the motion vector predictor of the current block, a residual motion vector between the motion vector of the current block and the motion vector predictor of the current block, and information representing the motion vector resolution of the current block, wherein the plurality of predetermined motion vector resolutions include a resolution of a pixel unit that is greater than a resolution of one-pel unit. [Figure 1A]



No. of Pages : 103 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941023807 A

(19) INDIA

(22) Date of filing of Application :15/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PHARMACEUTICAL COMPOSITIONS OF MELATONIN AND PROBIOTICS FOR THE TREATMENT OF IRRITABLE BOWEL SYNDROME (IBS)

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) <b>Name of Applicant :</b> <b>1)FOURRTS (INDIA) LABORATORIES PVT. LIMITED</b> Address of Applicant :No.1, Fourrts Avenue, Annai Indira Nagar, Okkiyam Thoraipakkam, Chennai Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sekharipuram Viswanathan Veerramani</b>
(33) Name of priority country	:NA	<b>2)Radha Veirramani</b>
(86) International Application No	:NA	<b>3)Balasubramanian Natarajan</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is pharmaceutical compositions of Probiotics and Melatonin for oral administration useful in the treatment of Irritable bowel syndrome (IBS).

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941036673 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD OF REDUCING TRAFFIC JAMS

(51) International classification	:G08G0001010000, A61K0009000000, A23L0021120000, A61K0038080000, G08G0001000000	(71) <b>Name of Applicant :</b> <b>1)VISWESH S</b> Address of Applicant :G-1/14, VASANTH APARTMENT, 100 FT BYPASS ROAD, VELACHERY, CHENNAI-42 Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VISWESH S</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

People often book taxi using a phone app. But after boarding the taxi, one major problem which they face is TRAFFIC JAMS. Traffic jams can seriously affect the travel time and cause great deal of inconvenience. Currently there is nothing a passenger can do about this traffic jam problem. The current invention proposes a novel method to overcome this problem.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941046642 A

(19) INDIA

(22) Date of filing of Application :15/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND APPARATUS USING WEIGHTED NONLINEAR BEAMFORMER FOR ULTRASOUND IMAGING

(51) International classification	:G01S0007520000, G01S0015890000, A61B0008080000, A61B0008000000, G10K0011340000	(71) <b>Name of Applicant :</b> <b>1)Indian Institute of Technology Madras (IIT Madras)</b> Address of Applicant :Indian Institute of Technology Madras (IIT Madras), IPM cell, Industrial Consultancy & Sponsored Research (IC&SR) building, IIT P.O., CLRI opposite, Adyar, Chennai 600036 Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Arun K. Thittai</b>
(33) Name of priority country	:NA	<b>2)Anudeep Vayyeti</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and apparatus for ultrasound imaging using weighted non-linear beamformer, is disclosed herein. The Raw echo RF data is received from the Ultrasound (US) machine wherein the raw echo RF data is obtained by configuring a delay profile in Ultrasound (US) machine to excite at least one element of the transducer to transmit the US beam in order to receive the echoes using the transducer elements and store it as Raw echo RF data. The delayed Raw echo RF data is multiplied with at least one coefficient of window function in order to achieve a weighted data which are combinatorially coupled, multiplied and summed using a beamformer module. A bandpass filter is used to filter unintended high frequency and DC noise present in the multiplied data and the multiplied data is processed using envelop detection and log compression unit in order to further display high quality US image on a display unit.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051171 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF LIFITEGRAST INTERMEDIATE<sup>TM</sup>

(51) International classification :A23K0020147000,  
C12P0019040000,  
B82Y0030000000,  
C22B0003000000,  
C08L0097020000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)Keminntek Laboratories**  
Address of Applicant :Keminntek laboratories, Plot No. 10/11,  
Road Number 5, Industrial Development Area, Nacharam,  
Medchal - Malkajgiri, Telangana, India-500076 Telangana India

(72)**Name of Inventor :**  
**1)Peddolla Sreenivas**  
**2)Kolupula Srinivas**  
**3)Gaddamanugu Gopikrishna**  
**4)Ganta Madhusudhan Reddy**

(57) Abstract :

ABSTRACT: The present invention provides an improved process for the preparation of lifitegrast intermediate. More particularly the present invention provides a simple, economical and commercially feasible process for the preparation of lifitegrast intermediate compound benzofuran-6-carboxylic acid of formula II (II)

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051261 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : LIPID BASED COMPOSITION FOR FISETIN AND USES THEREOF

(51) International classification	:A61K0009107000, A61K0009127000, A61K0009510000, A61K0008410000, A61K0045060000	(71) <b>Name of Applicant :</b> <b>1)JSS ACADEMY OF HIGHER EDUCATION AND RESEARCH</b> Address of Applicant :JSS ACADEMY OF HIGHER EDUCATION AND RESEARCH, (Deemed to be University), Mysore, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vikas Jain</b>
(33) Name of priority country	:NA	<b>2)Aishwarya Sureshkumar</b>
(86) International Application No	:NA	<b>3)Peruri Naga Venkata Mounika</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The embodiments of the present invention provide a lipid based composition for improving the delivery of Fisetin at requisite site which is useful in the treatment of melanoma and related disorders, wherein the composite anticancer lipid based compositions contains at least but not limited to nanostructured lipid carriers (NLC) of Fisetin which offers an enhanced delivery potential at the requisite site.

No. of Pages : 39 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051270 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AUTOMATIC DISCOVERY OF COMPUTING COMPONENTS WITHIN A HIERARCHY OF ACCOUNTS DEFINING THE SCOPE AND SERVICES OF COMPONENTS WITHIN THE COMPUTING ENVIRONMENT

(51) International classification	:G06K0009620000, H04L0029080000, G06F0003048400, H05K0007200000, G06K0009000000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ABHIJIT SHARMA</b>
(33) Name of priority country	:NA	<b>2)AMARJIT GUPTA</b>
(86) International Application No	:NA	<b>3)SOMIL BHANDARI</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

AUTOMATIC DISCOVERY OF COMPUTING COMPONENTS WITHIN A HIERARCHY OF ACCOUNTS DEFINING THE SCOPE AND SERVICES OF COMPONENTS WITHIN THE COMPUTING ENVIRONMENT ABSTRACT A feature selection methodology is disclosed. In a computer-implemented method, components of a computing environment are automatically monitored, and have a feature selection analysis performed thereon. Provided the feature selection analysis determines that features of the components are well defined, a classification of the features is performed. Provided the feature selection analysis determines that features of the components are not well-defined access to those features are discarded. Results of the feature selection methodology are generated. [Figure 1A]



No. of Pages : 39 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051271 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING INTERFERENCE IN LI-FI COMMUNICATION NETWORK

(51) International classification	:H04L0001000000, H04B0010116000, H04L0001180000, H04W0072080000, H04L0001160000	(71) <b>Name of Applicant :</b> <b>1)WIPRO LIMITED</b> Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SUBHAS CHANDRA MONDAL</b>
(33) Name of priority country	:NA	<b>2)SHAILESH PRABHU</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A method and system for managing interference between a set of Light Fidelity (Li-Fi) access points (108, 110, and 112) is disclosed. The method includes receiving (402) a plurality of uplink data frames. Each of the plurality of uplink data frames includes a response that includes one of an Acknowledgement (ACK) and a Negative Acknowledgment (NACK) for the associated downlink test frame and a Channel Quality Indication (CQI) for the associated Li-Fi access point. The method further includes detecting (404) presence of the User Equipment (UE) (124) in an interference region of the set of Li-Fi access points (108, 110, and 112). The method includes attaching (406) the UE (124) with a first Li-Fi access point (108) having the highest CQI and scheduling data transmission from the set of Li-Fi access points (108, 110, and 112) in a mutually exclusive time slot. The UE (124) accepts data received from the attached Li-Fi access point (108) and drops data received from remaining set of Li-Fi access points.

No. of Pages : 47 No. of Claims : 0



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051280 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : REAL-TIME DASHBOARDS, ALERTS AND ANALYTICS FOR A LOG INTELLIGENCE SYSTEM

(51) International classification	:G06F0011340000, G06Q0030020000, G06F0016901000, G06Q0050200000, G06F0011070000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California USA-94304 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KARTHIK SESHADRI</b>
(33) Name of priority country	:NA	<b>2)SIDDARTHA LAXMAN KARIBHIMANVAR</b>
(86) International Application No	:NA	<b>3)RITESH JHA</b>
Filing Date	:NA	<b>4)RADHAKRISHNAN DEVARAJAN</b>
(87) International Publication No	: NA	<b>5)CHAITANYA KRISHNA MULLANGI</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

REAL-TIME DASHBOARDS, ALERTS AND ANALYTICS FOR A LOG INTELLIGENCE SYSTEM ABSTRACT This disclosure describes how data supporting real-time reporting services can be cached during a log intake process. In particular, instead of caching all the log data being generated by an operational system, only the log data relevant to existing queries associated with the real-time reporting services are cached. In some embodiments, only particular metrics contained within the log data are stored for rapid access by the real-time reporting services. [Fig-1]



No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051296 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A CRAYON COMPOSITION

(51) International classification	:A61K0008920000, A61K0008410000, C09D0013000000, A61K0031416400, A61K0008362000	(71) <b>Name of Applicant :</b> <b>1)Dabble Playart Private Limited</b> Address of Applicant :No 201, Daffodils Appartment, 5th D main, HRBR Layout, 2nd Block, Kalyannagar, Bangalore - 560043 Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Neha Bajaj</b>
(33) Name of priority country	:NA	<b>2)Karen Saldanha</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A crayon composition is provided. The crayon composition includes 67 to 75.6 % w/w wax; 4.5 to 15.4 % w/w oil; 4 to 5 % w/w shea butter; and 0.5 to 15 % w/w one or more colouring agents. The present disclosure provides various advantages, including but not limited to, smooth while using, withstands all the seasons and temperature throughout the globe, the melting point ranges from 48 to 50, does not stick to skin while using and, edible and toxin free composition makes it safe if consumed.

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051305 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHODS AND APPARATUS TO DEPLOY SECURITY-COMPLIANT WORKLOAD DOMAINS

(51) International classification	:H04L0009320000, G06F0008610000, G11B0005465000, H04L0012280000, G06F0009500000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue Palo Alto California United States of America 94304 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NAREN LAL</b>
(33) Name of priority country	:NA	<b>2)RANGANATHAN SRINIVASAN</b>
(86) International Application No	:NA	<b>3)VIPUL CHAUDHARY</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An example apparatus to configure a workload domain for security compliance includes a configuration normalizer to generate normalized workload domain configuration settings by normalizing workload domain configuration settings of a deployed workload domain based on a format of compliance configuration settings; a drift comparator to compare the normalized workload domain configuration settings with the compliance configuration settings before deploying an application in the workload domain; a post start-up controller to generate updated workload domain configuration settings by modifying ones of the workload domain configuration settings, the modifying of the ones of the workload domain configuration settings being based on the comparison of the normalized workload domain configuration settings with the compliance configuration settings; and a compliance verifier to determine whether the updated workload domain configuration settings satisfy the compliance configuration settings. FIG. 1



No. of Pages : 57 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051311 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A pre-discharging based flip-flop with a negative setup time

(51) International classification	:G06F0017500000, H03K0003037000, H03K0003356000, G01R0031318500, A43B0003100000	(71) <b>Name of Applicant :</b> <b>1)SAMSUNG ELECTRONICS CO., LTD</b> Address of Applicant :129, Samsung-ro Yeongtong-gu, Suwon-si, Gyeonggi-do- Republic of Korea 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Aroma Bhat</b>
(33) Name of priority country	:NA	<b>2)Abdur Rakheeb</b>
(86) International Application No	:NA	<b>3)Mitesh Goyal</b>
Filing Date	:NA	<b>4)Arani Roy</b>
(87) International Publication No	: NA	<b>5)Abhishek Ghosh</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A pre-discharging based flip-flop with a negative setup time. The flip-flop includes a master section and a slave section. The master section latches a data input or a scan input signal based on a scan enable signal, and the slave section retains a previous value of the inverted output QN when a clock signal is at a low logic level. The master section retains a previously latched value of the data input or the scan input signal and the slave section fetches the latched value of the master section and provides a new inverted output QN when the clock signal is at a high logic level. Further, the master section includes sub-sections that are operated using a negative clock signal. An output of the master section is discharged to zero for a half of a phase of the clock cycle. FIG. 3a

No. of Pages : 108 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051319 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SCALE INDEPENDENT SINGLE SHOT BLIND IMAGE DEBLURRING USING COARSE AND FINE-GRAINED CONVOLUTION BLOCKS

(51) International classification	:G06T0005000000, G06N0003040000, G06N0003080000, G06K0009460000, G06K0009620000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :129,Samsung-ro,Yeongtong-gu, Suwon-si, Gyeonggi-do,Republic of Korea 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Tejpratap Venkata Subbu Lakshmi Gollanapalli</b>
(33) Name of priority country	:NA	<b>2)Kuladeep Marupalli</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Method and electronic device for deblurring blurred image • Embodiments herein provide a method for deblurring a blurred image in an electronic device (100). The method includes receiving, by the electronic device (100), the blurred image. The method includes encoding, by the electronic device (100), the blurred image at a plurality of stages to obtain an encoded image at each stage of the encoding. The method includes generating, by the electronic device (100), a deblurred image by decoding the encoded image obtained from a final stage of encoding at the plurality of stages by using an encoding feedback from each stage of the encoding and a ML feedback from at least one ML model (113) to deblur at least one portion of the blurred image. The method includes storing, by the electronic device (100), the deblurred image. FIG. 1

No. of Pages : 42 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051333 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : LIGHT ELECTRIC MOPED

(51) International classification	:B60K0035000000, B62J0099000000, F04B0039120000, B60K0001040000, G01S0013720000	(71) <b>Name of Applicant :</b> <b>1)GREENDZINE TECHNOLOGIES PVT LTD</b> Address of Applicant :C/o Greendzine Technologies Pvt Ltd #387 8th Main 7th Cross BTM 2nd Stage MICO Layout Bangalore 560076 Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Anjan Kumar N</b>
(33) Name of priority country	:NA	<b>2)Karthikeyan sundaram</b>
(86) International Application No	:NA	<b>3)Srinivasa Varadhan</b>
Filing Date	:NA	<b>4)MANAN MAHESH PANWALA</b>
(87) International Publication No	: NA	<b>5)Sivakumar S</b>
(61) Patent of Addition to Application	:NA	<b>6)Rohit Mohan Togale</b>
Number	:NA	<b>7)Kedar M</b>
Filing Date	:NA	<b>8)Vivek K</b>
(62) Divisional to Application Number	:NA	<b>9)sangharsh.v</b>
Filing Date	:NA	

(57) Abstract :

A light weight electric two-wheeler, in particular an electric moped comprising of a sheet metal space frame chassis, wheel integrated electric powertrain, a separate helmet compartment for rider & pillion, burglar proofing and Ingress protection for battery, electronics compartment, integrated smart vehicle display and vehicle control system with multiple sensor systems and drive modes. FIG. 1

No. of Pages : 17 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051341 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND APPARATUS FOR PROVIDING MACHINE LEARNING-BASED RECOMMENDATIONS IN BLOCKCHAIN NETWORK

(51) International classification	:G06N0020000000, H04L0029060000, G06F0016290000, G06F0021620000, H04L0009320000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd</b> Address of Applicant :129,Samsung-ro,Yeongtong-gu, Suwon-si, Gyeonggi-do Republic of Korea-443-742 Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RAHUL AGRAWAL</b>
(33) Name of priority country	:NA	<b>2)SUSOVAN VIVEKANANDA MAZUMDER</b>
(86) International Application No	:NA	<b>3)ANKUR AGRAWAL</b>
Filing Date	:NA	<b>4)NITESH GOYAL</b>
(87) International Publication No	: NA	<b>5)AMITIJ SINGH</b>
(61) Patent of Addition to Application Number	:NA	<b>6)VIPUL GUPTA</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Method and apparatus for providing machine learning-based recommendations in Blockchain network • Accordingly, embodiments herein disclose a method and apparatus for providing machine learning (ML) based recommendations in a Blockchain network (1000). The method includes receiving, by a first electronic device (100a) in the Blockchain network (1000), information associated with a user of the first electronic device (100a). Further, the method includes separating, by the first electronic device (100a), sensitive data and non-sensitive data of the user from the received information. Further, the method includes creating, by the first electronic device (100a), a device-specific ML engine (123aa) based on the sensitive and non-sensitive data. Further, the method includes configuring, by the first electronic device (100a), the ML engine (123aa) in the first electronic device (100a) for providing ML-based recommendations. FIG. 3

No. of Pages : 44 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051350 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR THE PREPARATION OF (4-[7-(6-CYANO-5-TRIFLUOROMETHYLPYRIDIN-3-YL)-8-OXO-6-THIOXO-5,7- DIAZASPIRO[3.4]OCT-5-YL]-2-FLUORO-N-METHYLBENZAMIDE) AND ITS POLYMORPHS

(51) International classification	:C07D0401040000, C07C0241040000, C07D0498100000, C07D0263520000, C07D0263260000	(71) <b>Name of Applicant :</b> <b>1)MSN Laboratories Private Limited, R&amp;D Center</b> Address of Applicant :MSN Laboratories Private Limited, R&D Center; Plot No. 12, Phase-IV, Sy.No: 119 to 140, 258, 275 to 280, IDA, Pashamylaram (Vil), Patancheru (Mdl), Sangareddy (Dist), Telangana, India 502307 Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Srinivasan Thirumalai Rajan</b>
(33) Name of priority country	:NA	<b>2)Sajja Eswaraiah</b>
(86) International Application No	:NA	<b>3)Revu Satyanarayana</b>
Filing Date	:NA	<b>4)Challa Suresh</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Title of the invention: Process for the preparation of 4-[7-(6-Cyano-5-trifluoromethyl-pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]oct-5-yl]-2-fluoro-N-methyl benzamide and its polymorphs. The present application relates a process for the preparation of (4-[7-(6-Cyano-5-trifluoromethylpyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]oct-5-yl]-2-fluoro-N-methylbenzamide) of formula-1 and its polymorphs. Formula-1.

No. of Pages : 26 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051356 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR EDITING SHAPES OF FACETED GEOMETRIES

(51) International classification	:G05B0019409700, G06T0003000000, G06F0017500000, G05B0015020000, G05D0001020000	(71) <b>Name of Applicant :</b> <b>1)ANSYS, INC.</b> Address of Applicant :2600 ANSYS Drive, Canonsburg, Pennsylvania 15317 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sourabh Chadha</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Machine assisted system and method for changing the shape of a faceted surface using points that move in their local coordinate system collectively are described. The method can include receiving a model having a predefined faceted geometry, the model representing a physical structure that is designed or simulated in a data processing system; generating points surrounding the predefined faceted geometry to be morphed; automatically assigning each of the generated points a respective local coordinate system; selecting a control point among the generated points for controlling a movement of the generated points; and displacing the selected control point in a local coordinate system assigned to the selected control point to cause each point to move based on movement of the selected control point according to the assigned local coordinate system, wherein the displacement of the selected control point guides a morphing of the predefined faceted geometry in the model.

No. of Pages : 44 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051395 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : FILE TRANSFORMATION APPARATUS AND METHOD THEREOF

(51) International classification	:G06F0017270000, G06F0016130000, B31B0050140000, G06F0007360000, G06F0016170000	(71) <b>Name of Applicant :</b> <b>1)Srilatha Raipeddi</b> Address of Applicant :GF 003, A block, Greenaly Signature, Hulimavu, Bangalore - 560076 Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Srilatha Raipeddi</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT FILE TRANSFORMATION APPARATUS AND METHOD THEREOF Disclosed are a file transformation apparatus and method of transforming files. The method includes determining an attribute of an input file based on an extension of the input file. The method includes inspecting one or more objects present in the input file. The method includes parsing the inspected objects to create a parse tree and identify each object presented in the input file through a parser. The method includes tokenizing the objects into a list of tokens. The method includes computing word counts present in the tokenized objects. The method includes converting the word counts into one or more weights to obtain a plurality of sentence scores. The method includes multiplying the sentence scores. The method includes obtaining predominant sentences based on the multiplied sentence scores. The method includes a step of placing the predominant sentences into a predefined format to transform the input file. The most illustrative drawing: FIG. 1

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051396 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : ESTIMATION OF BISPHENOL A USING IMAGE ANALYSIS

(51) International classification	:G06N0020000000, G01N0015060000, G06K0009620000, A61B0010000000, A61B0005110000	(71) <b>Name of Applicant :</b> <b>1)ANANYA ACHANTA</b> Address of Applicant :Apartment 605, Quiescent Heights, Building No.17, Mindspace Cyberabad, Madhapur Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ANANYA ACHANTA</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for the estimation of trace amounts of Bisphenol A (BPA) in accordance with the present invention comprises reacting a sample containing BPA with a filter paper strip soaked in ferric agent(s), using an image processing software for measuring the mean Red, Green, and Blue (RGB) values, and calculating the amount of BPA using the algorithm in an open-source machine learning and data mining tool.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : BIOMARKERS FOR DETECTION/DIAGNOSIS OF PULMONARY DISORDERS AND USES THEREOF

(51) International classification	:G01N0033574000, G01N0033680000, C12Q0001688300, A61K0039000000, A61B0017000000	(71) <b>Name of Applicant :</b> <b>1)YENEPOYA (DEEMED TO BE UNIVERSITY)</b> Address of Applicant :Yenepoya (Deemed To Be University) University Road, Deralakatte Mangalore Karnataka India 575018 Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr.Yashodhar P. Bhandary</b>
(33) Name of priority country	:NA	<b>2)Sadiya Bi Shaikh</b>
(86) International Application No	:NA	<b>3)Dr. Irfan</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT BIOMARKERS FOR DETECTION/DIAGNOSIS OF PULMONARY DISORDERS AND USES THEREOF Invention deals with novel biomarkers for identification, prediction and/or monitoring of Chronic Obstructive Pulmonary Disease (COPD). More particularly, invention enables quantification of prognostic and/or therapeutic response in patients with pulmonary inflammation associated disease. In preferred embodiments, the identified proteins are Claudin-1 (CLDN1), Claudin-3 (CLDN3), Claudin-5 (CLDN5), Claudin-10 (CLDN10), Claudin-19 (CLDN19), Claudin-25 (CLDN25), Tight Junction Protein-1 (TJP-1), Tight Junction Protein-2 (TJP-2), Tight Junction Protein-3 (TJP-3) and Tight Junction Associated Protein, Connective Tissue Growth factor (CTGF), Platelet Derived Growth Factor (PDGF), Zinc finger E-box-binding Homeobox 1(ZEB-1) and Zinc finger E-box-binding Homeobox 2 (ZEB-2). The biomarkers provided herein may further be used for therapeutic treatment of COPD and enable design of novel therapies targeted against diseases associated with pulmonary inflammation. Identified biomarkers would contribute in development of reliable, rapid and confirmatory diagnostic tools for COPD. In addition, the invention also provides kits that are useful for the practice of invention.

No. of Pages : 38 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051399 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A CONTROLLER FOR FILTERING A DC VOLTAGE TO A LOAD DEVICE

(51) International classification	:H02J0003320000, H02M0003070000, H03F0003450000, H03K0017100000, H02P0027060000	(71) <b>Name of Applicant :</b> <b>1)SIGNIFY HOLDING B.V.</b> Address of Applicant :High Tech Campus 48, NL-5656 AE Eindhoven, The Netherlands. Netherlands
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SRIVASTAVA, Rachit</b>
(33) Name of priority country	:NA	<b>2)BANERJEE, Krishnendu</b>
(86) International Application No	:NA	<b>3)SHRIVASTAV, Prashant</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A controller for filtering a DC voltage to a load device; wherein the controller is arranged to be connected in series with the load device, wherein the controller comprises: an input arranged to be connected to the DC voltage; wherein the DC voltage has a periodic variation; an output arranged to be connected to the load device; a MOSFET coupled between the input and the output; a resistance unit arranged to be connected to a MOSFET drain and to a MOSFET gate; a capacitance unit arranged to be connected to the MOSFET gate and to a ground; and wherein the MOSFET gate is biased only by the resistance unit and the capacitance unit.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051447 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PHARMACEUTICAL COMPOSITION COMPRISING PIMAVANSERIN, PROCESS OF PREPARATION AND USE THEREOF

(51) International classification	:A61K0031446800, C07D0211580000, A61K0045060000, A61K0031473000, A61K0009200000	(71) <b>Name of Applicant :</b> <b>1)AUROBINDO PHARMA LTD</b> Address of Applicant :AUROBINDO PHARMA LIMITED The Water Mark Building, 1st Floor, Plot No.11, Survey No.9, Kondapur, Hitech City, Hyderabad, Telangana Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SARAVANAN KANNUSAMY</b>
(33) Name of priority country	:NA	<b>2)PRABHAKARAN CHAKKIRALA</b>
(86) International Application No	:NA	<b>3)RAKESH SARKAR</b>
Filing Date	:NA	<b>4)MEENAKSHISUNDERAM SIVAKUMARAN</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT PHARMACEUTICAL COMPOSITION COMPRISING PIMAVANSERIN, PROCESS OF PREPARATION AND USE THEREOF The present invention relates to prepare pharmaceutical compositions comprising pimavanserin or a pharmaceutically acceptable salt thereof, processes for manufacturing said pharmaceutical compositions comprising pimavanserin or a pharmaceutically acceptable salt thereof. Also pharmaceutical compositions comprising pimavanserin or a pharmaceutically acceptable salt thereof for the treatment of hallucinations and delusions associated with Parkinson<sup>TM</sup>s disease psychosis.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051450 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SPROCKET SYSTEM FOR EXERCISE AND TRANSPORT

(51) International classification	:F16H0007060000, A63B0022020000, F16H0055300000, A61B0005110000, F16G0013200000	(71) <b>Name of Applicant :</b> <b>1)Kusumika Krori Dutta</b> Address of Applicant :Dept of Electrical and Electronics Engineering, MSRIT, Bangalore 560054 Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Kusumika Krori Dutta</b>
(33) Name of priority country	:NA	<b>2)Manoj Prakassh</b>
(86) International Application No	:NA	<b>3)Amrutha Varshini</b>
Filing Date	:NA	<b>4)K. Anjana</b>
(87) International Publication No	: NA	<b>5)Hemalatha B</b>
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Sprocket System for Exercise and Transport A Sprocket system for Exercise and Transport consists of five Sprockets with many engaging teeth and two chains. Two of the sprockets contain 24 teeth and three sprockets contain 18 teeth. Sprocket1 and Sprocket5 are connected through a chain drive, Sprocket3 and Sprocket4 (Fig1) are connected through another chain drive. Sprocket1 and Sprocket2 are mounted on a shaft. The working of the treadmills e cycle is such that as the user pushes the belt backward, the e cycle gets displaced in the forward direction. This e cycle™s operation can be initiated by walking or can be switched to electrical means anytime when the operator desires. Figure 1



No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051457 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHODS AND SYSTEMS FOR MANAGING MAIN BATTERY PACK AND RANGE EXTENDER BATTERY PACK IN VEHICLE

(51) International classification :B60W0010060000,  
H01M0002100000,  
B60W0010260000,  
B60W0020130000,  
B60W0010080000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)Mahindra Electric Mobility Limited**  
Address of Applicant :Plot No.66 to 69 & 72 to 76  
Bommasandra Industrial Area, 4th Phase, Jigani Link Road  
Anekal Taluk, Bengaluru Karnataka India Karnataka India

(72)**Name of Inventor :**  
**1)N.Balashanmugam**  
**2)V.Jaikumar**  
**3)Naveen Kumar**  
**4)Suman Basu**  
**5)Allabaksh Naikodi**

(57) Abstract :

Methods (300, 400) and systems (100) for managing main battery pack (201) and range extender battery pack (101) of vehicle. The range extender battery pack (101) comes with a BMS (102), which is connected to a BMS (202) of a main battery pack (201) of the vehicle. The system (200) includes a user interface (203), which is controlled manually to indicate selection of the range extender battery pack (101) for operating the vehicle. The BMS (202) of the main battery pack (201) determines SoC of the main battery pack (201) and the SoC of the range extender battery pack (101), and selects either of the main battery pack (201) or the range extender battery pack (101) for operating the vehicle based on at least one of inputs received from the user interface (203), the SoC of the main battery pack (201), and the SoC of the range extender battery pack (101). The range extender battery pack (101) can be charged using an off-board charger. Fig. 2



No. of Pages : 27 No. of Claims : 18



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051486 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PERFORMING DEEP PACKET INSPECTION IN A SOFTWARE DEFINED WIDE AREA NETWORK

(51) International classification	:H04L0029060000, H04W0028020000, G06Q0030060000, H04W0008020000, G06K0009460000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NAVANEETH KRISHNAN RAMASWAMY</b>
(33) Name of priority country	:NA	<b>2)GANESH SRINIVASAN</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Some embodiments provide a method for performing deep packet inspection (DPI) for an SD-WAN (software defined, wide area network) established for an entity by a plurality of edge nodes and a set of one or more cloud gateways. At a particular edge node, the method uses local and remote deep packet inspectors to perform DPI for a packet flow. Specifically, the method initially uses the local deep packet inspector to perform a first DPI operation on a set of packets of a first packet flow to generate a set of DPI parameters for the first packet flow. The method then forwards a copy of the set of packets to the remote deep packet inspector to perform a second DPI operation to generate a second set of DPI parameters. In some embodiments, the remote deep packet inspector is accessible by a controller cluster that configures the edge nodes and the gateways. In some such embodiments, the method forwards the copy of the set of packets to the controller cluster, which then uses the remote deep packet inspector to perform the remote DPI operation. The method receives the result of the second DPI operation, and when the generated first and second DPI parameters are different, generates a record regarding the difference.



No. of Pages : 51 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051487 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : COLLECTING AND ANALYZING DATA REGARDING FLOWS ASSOCIATED WITH DPI PARAMETERS

(51) International classification	:H04L0029060000, H04W0028020000, G06Q0030060000, H04W0008020000, G06K0009460000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California 94304 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NAVANEETH KRISHNAN RAMASWAMY</b>
(33) Name of priority country	:NA	<b>2)GANESH SRINIVASAN</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Some embodiments provide a method for performing deep packet inspection (DPI) for an SD-WAN (software defined, wide area network) established for an entity by a plurality of edge nodes and a set of one or more cloud gateways. At a particular edge node, the method uses local and remote deep packet inspectors to perform DPI for a packet flow. Specifically, the method initially uses the local deep packet inspector to perform a first DPI operation on a set of packets of a first packet flow to generate a set of DPI parameters for the first packet flow. The method then forwards a copy of the set of packets to the remote deep packet inspector to perform a second DPI operation to generate a second set of DPI parameters. In some embodiments, the remote deep packet inspector is accessible by a controller cluster that configures the edge nodes and the gateways. In some such embodiments, the method forwards the copy of the set of packets to the controller cluster, which then uses the remote deep packet inspector to perform the remote DPI operation. The method receives the result of the second DPI operation, and when the generated first and second DPI parameters are different, generates a record regarding the difference.

No. of Pages : 52 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051491 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : DISTRIBUTED APPLICATION RESOURCE DETERMINATION BASED ON PERFORMANCE METRICS

(51) International classification	:G06F0011340000, G06F0009500000, H04L0029080000, G06F0011070000, H04M0003510000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California 94304 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)V VIMAL DAS KAMMATH</b>
(33) Name of priority country	:NA	<b>2)ZACHARIA GEORGE</b>
(86) International Application No	:NA	<b>3)VIPUL CHAUDHARY</b>
Filing Date	:NA	<b>4)MADHAN SANKAR</b>
(87) International Publication No	: NA	<b>5)MAHESH VOLETI</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one example, a system may include an application monitoring server and an endpoint in communication with the application monitoring server. Example endpoint may include an agent to collect performance metrics associated with a program running in the endpoint and a discovery unit in communication with the agent. The discovery unit may include a metric parser to receive the performance metrics in a source format and parse the received performance metrics. Further, the discovery unit may include a resource extractor to apply a transformation definition to the parsed performance metrics to determine a plurality of resources in a destination format. The plurality of resources may be associated with an application being executed in the endpoint. Furthermore, the discovery unit may include a transmitting unit to transmit the performance metrics and first information associated with the plurality of resources to the application monitoring server via a network. [Figure 1A]

No. of Pages : 43 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051499 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING INTERFERENCE IN OPTICAL CAMERA COMMUNICATION BASED NETWORK

(51) International classification	:H04W0072080000, H04W0064000000, H04L0029060000, H04W0016140000, G01S0005100000	(71) <b>Name of Applicant :</b> <b>1)WIPRO LIMITED</b> Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SUBHAS CHANDRA MONDAL</b>
(33) Name of priority country	:NA	<b>2)SHAILESH PRABHU</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and system for managing interference between transmission sources in an Optical Camera Communication (OCC) network is disclosed. The method includes receiving (402) interference information associated with a set of transmission sources. Each of the set of transmission sources include a set of light sources configured to display one of a plurality of colors. The method further includes assigning (404) a unique guard band to each of the set of transmission sources. The method includes sharing (406) details of the unique guard band assigned to a first transmission source (104) within the set of transmission sources with the camera (108). The camera (108) is configured as the receiver of the first transmission source (104). The method further includes instructing the camera (108) to accept data transmitted by the first transmission source (104) based on the assigned unique guard band and drop data transmitted by the remaining set of transmission sources. FIG 1



No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : AN ADAPTIVE CLIP ASSEMBLY

(51) International classification	:B65D0063100000, B60R0021020000, F16B0002040000, H01R0012700000, F16B0021070000	(71) <b>Name of Applicant :</b> <b>1)DAIMLER AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Chockalingam Chidambaram</b>
(32) Priority Date	:NA	<b>2)Santosh Khot</b>
(33) Name of priority country	:NA	<b>3)Narasim Kumar Vallbhaneni</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[051] ABSTRACT [052] The present disclosure relates to an adaptive clip assembly. The adaptive clip assembly includes a head. The head of the adaptive clip assembly includes a pair of side walls separated by a pre-determined distance and a bridge interconnecting the pair of side walls defining a slot in between. Each of the pair of sidewalls are defined with a plurality of serrations. Further, the adaptive clip assembly includes a pair of stems receivable in the slot. Each of the pair of stems are defined with a plurality of locking members. The plurality of locking member is slidably engageable with the plurality of serrations such that the pair of stems is adaptable to vary the diameter of the adaptive clip assembly. The adaptive clip assembly of the present disclosure may be accommodated in the holes of varying diameter FIG.1 is a representative figure

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051516 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : CENTRALIZED APPLICATION RESOURCE DETERMINATION BASED ON PERFORMANCE METRICS

(51) International classification	:G06F0011340000, G06F0011300000, G06F0016250000, G06F0017270000, G06F0016245500	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)V VIMAL DAS KAMMATH</b>
(33) Name of priority country	:NA	<b>2)ZACHARIA GEORGE</b>
(86) International Application No	:NA	<b>3)VIPUL CHAUDHARY</b>
Filing Date	:NA	<b>4)MADHAN SANKAR</b>
(87) International Publication No	: NA	<b>5)MAHESH VOLETI</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one example, an application monitoring server may include a metric parser to receive performance metrics associated with an endpoint. Example performance metrics may be in a source format. Further, the metric parser may parse the received performance metrics. Furthermore, the application monitoring server may include a resource extractor to apply a transformation definition to the parsed performance metrics to determine a plurality of resources in a destination format. Example plurality of resources may be associated with an application being executed in the endpoint. Further, the resource extractor may present information associated with the plurality of resources on a graphical user interface.



No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051518 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ANTI-PATTERN DETECTION FOR COMPUTING APPLICATIONS

(51) International classification	:G06F0008410000, G06F0011360000, G06F0021550000, G06F0009455000, G06F0009540000	(71) <b>Name of Applicant :</b> <b>1)Cognizant Technology Solutions India Pvt. Ltd.</b> Address of Applicant :Techno Complex, No. 5/535, Old Mahabalipuram Road, Okkiyam Thoraipakkam, Chennai Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Parasu Pillai Iyappan Velammal</b>
(33) Name of priority country	:NA	<b>2)Duraivel Kalyanasundaram</b>
(86) International Application No	:NA	<b>3)Sriram Venkatakrishnan</b>
Filing Date	:NA	<b>4)Selvaraj Natarajan</b>
(87) International Publication No	: NA	<b>5)Janakiraman Ramani</b>
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system and method for anti-pattern detection for computing application prior to deployment in cloud environment is provided. The present invention provides for applying a pre-defined set of rules on one or more applications source code. The pre-defined set of rules are applied in pre-defined order. Further, applying one or more anti-pattern detection models on one or more applications source code. The anti-pattern detection models are applied for determining correlation between one or more syntax patterns of the application source code and the anti-patterns detection models. Further, detecting anti-patterns associated with the syntax patterns of the application source code based on the pre-defined set of rules and the anti-patterns detection models. The detected anti-patterns represent unique anti-patterns. Lastly, generating a migration actionable event for the application source code based on the detected anti-patterns.

No. of Pages : 47 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051520 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR APPLICATION TRANSFORMATION TO CLOUD BASED ON SEMI-AUTOMATED WORKFLOW

(51) International classification	:G06F0008410000, G06F0009455000, H04L0029080000, G06Q0020380000, G06F0008700000	(71) <b>Name of Applicant :</b> <b>1)Cognizant Technology Solutions India Pvt. Ltd.</b> Address of Applicant :Techno Complex, No. 5/535, Old Mahabalipuram Road, Okkiyam Thoraipakkam, Chennai Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Parasu Pillai Iyappan Velammal</b>
(33) Name of priority country	:NA	<b>2)Kumaresan Ramachandran</b>
(86) International Application No	:NA	<b>3)Karthikeyan Mohan</b>
Filing Date	:NA	<b>4)Jeyashree Pandian Duraipandian</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides for a system and a method for application transformation to cloud for conversion of an application source code to a cloud native code. The present invention provides for receiving a first, second, third and fourth transformation recommendation paths. Further, the present invention provides for applying a set of remediation templates based on the first and the second transformation recommendation paths. The present invention provides for applying a pre-defined transformation process flow on the application source code based on the first and the second transformation recommendation paths to transform the application source code to the cloud native code. The present invention provides for applying a reusable service template on the application source code. The present invention provides for creating plurality of configuration artifacts specific to the cloud platform. The present invention provides for building a CI/CD pipeline for integration and deployment of the cloud native code.

No. of Pages : 50 No. of Claims : 28



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051522 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : IMPROVED STAND FOR MOUNTING KITCHEN APPLIANCES

(51) International classification	:A61B0090000000, B25B0001240000, B29C0065360000, A47J0045070000, G11B0033120000	(71) <b>Name of Applicant :</b> <b>1)THAIKATTIL JOSE</b> Address of Applicant :THAIKATTIL HOUSE, HIGH LAND STREET, OLLUKKARA P.O., THRISSUR, KERALA STATE, INDIA -680655 Kerala India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)THAIKATTIL JOSE</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Improved stand for mounting kitchen appliances. This invention provides an improved economical stand for a kitchen press, said stand having an appliance-holding damp towards its top for holding the cylindrical body of a kitchen press, said damp comprising a ring shaped bracket with a screw attached jaw mounted within the bracket, the head (7) of the screw being enclosed between the jaw (3) and a welded holed locating member (8) so as to hinder rotatable movement of said jaw with respect to the said screw, and i) means for fitting a resilient strap on to the inwardly curved face of the jaw through fixing members such as rivets (12) or screws passed through the resilient strap and the said jaw is provided, or ii) a bush is provided on each side of the jaw, said bush having a backwardly projecting integral knob configured to pass through a hole on the jaw when pushed through the said hole and to abut on the edge of the said hole when the bush is pulled back thereby to hold the resilient bush securely at the jaw. See Fig.3.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051545 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : CORIANDRUM SATIVUM MOUTHWASH IN REDUCING STREPTOCOCCUS MUTANS COUNT

(51) International classification	:A61Q0011000000, A61K0008920000, A61K0008340000, A61K0031015000, A61K0008660000	(71) <b>Name of Applicant :</b> <b>1)Dr. DHANU. G</b> Address of Applicant :A.M.E's Dental College And Hospital, Bijanegera Road, Raichur, Karnataka, India-584102. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. DHANU. G</b>
(33) Name of priority country	:NA	<b>2)Dr. RAGHAVENDRA HAVALE</b>
(86) International Application No	:NA	<b>3)Dr. SYEDA SUBIA SARA</b>
Filing Date	:NA	<b>4)Dr. Y. ANAND KUMAR</b>
(87) International Publication No	: NA	<b>5)Dr. BADAR OMER A FATIMA</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr. B. NEHA</b>
Filing Date	:NA	<b>7)DR. MANASA</b>
(62) Divisional to Application Number	:NA	<b>8)Dr. ATHIRA M.L</b>
Filing Date	:NA	<b>9)Dr. NAMIRA MOHAMMAD KAROBARI</b>
		<b>10)Dr. KAUSAR-E-RAJ</b>
		<b>11)Dr. IRIN MATHEW</b>
		<b>12)Dr. KANCHANTUPPADMATH</b>
		<b>13)Dr. VINEETA DHANU</b>
		<b>14)Dr. SHEETAL.B.S</b>

(57) Abstract :

The present invention relates to an oral care anti-bacterial composition for reducing streptococcus mutans, wherein the anti-bacterial composition comprises Coriandrum Sativum seed oil.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051546 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PAPAYA LEAF EXTRACT MOUTHWASHES IN REDUCING STREPTOCOCCUS MUTANS COUNT

(51) International classification	:A61Q0011000000, A61K0008340000, A61K0036185000, A61K0008990000, A61K0008660000	(71) <b>Name of Applicant :</b> <b>1)Dr.RAGHA VENDRA HAVALE</b> Address of Applicant :A. M. Es DENTAL COLLEGE AND HOSPITAL, BIJANEGERA ROAD, RAICHUR KARNATAKA INDIA-584102 Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr.RAGHA VENDRA HAVALE</b>
(33) Name of priority country	:NA	<b>2)Dr.G.DHANU</b>
(86) International Application No	:NA	<b>3)Dr.B.NEHA</b>
Filing Date	:NA	<b>4)Dr.BADAR OMER A FATIMA</b>
(87) International Publication No	: NA	<b>5)Dr.SYEDA SUBIA SARA</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr.ATHIRA M.L</b>
Filing Date	:NA	<b>7)Dr.NAMIRA MOHAMMAD KAROBARI</b>
(62) Divisional to Application Number	:NA	<b>8)Dr.MANASA</b>
Filing Date	:NA	<b>9)Dr.KANCHANTUPPADMATH</b>
		<b>10)Dr.KAUSAR-E-TAJ</b>
		<b>11)Dr.IRIN MATHEW</b>
		<b>12)Dr.SHRUTHA.S.P</b>
		<b>13)Dr.VINEETA DHANU</b>
		<b>14)Dr.NAMRATHA THATRAY</b>
		<b>15)Dr.SHEETAL.B.S</b>

(57) Abstract :

PAPAYA LEAF EXTRACT MOUTHWASHES IN REDUCING STREPTOCOCCUS MUTANS COUNT The present invention relates to an oral care anti-bacterial composition for educing streptococcus mutans, wherein the anti-bacterial composition comprises ;xtraction of Carica Papaya leaves.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051547 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : RICE HUSK EXTRACT MOUTHWASH FOR REDUCING STREPTOCOCCUS MUTANS COUNT

(51) International classification	:A61Q0011000000, A61K0008340000, A23G0004120000, A61K0008660000, A61K0008220000	(71) <b>Name of Applicant :</b> <b>1)Dr.RAGHA VENDRA HAVALE</b> Address of Applicant :A. M. Es DENTAL COLLEGE AND HOSPITAL, BIJANEGERA ROAD, RAICHUR KARNATAKA INDIA-584102 Karnataka India (72) <b>Name of Inventor :</b> <b>1)Dr.RAGHA VENDRA HAVALE</b> <b>2)Dr.G.DHANU</b> <b>3)Dr.B.NEHA</b> <b>4)Dr.BADAR OMER A FATIMA</b> <b>5)Dr.SYEDA SUBIA SARA</b> <b>6)Dr.ATHIRA M.L</b> <b>7)Dr.MANASA</b> <b>8)Dr.NAMIRA MOHAMMAD KAROBARI</b> <b>9)Dr.KANCHANTUPPADMATH</b> <b>10)Dr.IRIN MATHEW</b> <b>11)Dr.SHRUTHA.S.P</b> <b>12)Dr.VINEETA DHANU</b> <b>13)Dr.SHEETAL.B.S</b> <b>14)Dr.KAUSAR-E-TAJ</b>
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

RICE HUSK EXTRACT MOUTHWASH FOR REDUCING STREPTOCOCCUS MUTANS COUNT The present invention relates to an oral care anti-bacterial composition for reducing streptococcus mutans, wherein the anti-bacterial composition comprises extraction of Rice Husk.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051586 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : POLYMORHIC FORMS OF BEDAQUILINE FUMARATE

(51) International classification	:C07D0215227000, A61K0031470000, B01J0020300000, A61P0031060000, C23C0014280000	(71) <b>Name of Applicant :</b> <b>1)Mylan Laboratories Ltd</b> Address of Applicant :Mylan Laboratories Ltd, Plot No 564/A/22,Road No 92, Jubilee Hills, Hyderabad 500033,India Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ramakoteswara Rao Jetti</b>
(33) Name of priority country	:NA	<b>2)Daveedu Bhatraju</b>
(86) International Application No	:NA	<b>3)Sureshababu Jayachandra</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to amorphous form of bedaquiline fumarate and process for its preparation thereof.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051670 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : GEOSPATIAL MODEL-BASED MULTI-INFRASTRUCTURE RISK AND SUSTAINABILITY ANALYSIS SYSTEM

(51) International classification	:G06Q0010060000, G01V0001000000, G16H0050800000, H05K0001020000, B64D0045000000	(71) <b>Name of Applicant :</b> <b>1)Geo Climate Risk Solutions Private Limited</b> Address of Applicant :Geo Climate Risk Solutions Pvt Ltd, Regus Elite Business Centre, Level-4, Naga Chambers,D/No. 12- 1-16, Plot no 19, Opposite HDFC Bank, Ram Nagar, Waltair Main Road, Vishakapatnam Andhra Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gadham Prasad Babu</b>
(33) Name of priority country	:NA	<b>2)JASMINE GEDDAM</b>
(86) International Application No	:NA	<b>3)GUMMADI MANOJ</b>
Filing Date	:NA	<b>4)V DEVA KUMAR</b>
(87) International Publication No	: NA	<b>5)VASUNDHARA DEOGAWANKA</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Prasanna Lakshmi Mamidi</b>
Filing Date	:NA	<b>7)K V Sirisha Padmavathi</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT: Title: Geospatial Model-based Multi-Infrastructure Risk and Sustainability Analysis System The present disclosure discloses a geospatial model based multi-infrastructure risk and sustainability analysis system that indicates the probable risk zones and provides early warning to the infrastructure owner. The geospatial model based multi-infrastructure analysis system comprises an input module 101, a data collection module 102, an analysis module 103, a routing module 104 and an alerting module 105. The system aids to mitigate and manage various uncertainties including multiple natural hazards and environmental risk parameters such as LULC, NDVI, and thereof. The multi-infrastructure analysis system analyzes the suitability and sustainability of planned or existing pipeline infrastructure. The system further integrates environmental, geo-hazard, geotectonic, and social risks and historic satellite data to analyze the infrastructure suitability and sustainability. The system provides better surveillance and high frequency of data collection and thereby avoid pipeline leaks, bursts and blowouts by monitoring the infrastructure. The analysis system aids to avoid loss of resources by indicating high consequence areas and the high population density areas for pipeline ROW to the owner. The multi-infrastructure analysis system prevents the risk of pollution in highly vegetated areas, environmentally sensitive areas and protected areas.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051672 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : TRANSPORTABLE EX-VIVO DYNAMIC PERFUSION KIDNEY PRESERVATION DEVICE

(51) International classification	:A01N0001020000, A61M0003020000, C12M0001020000, A61F0007120000, B67D0001080000	(71) <b>Name of Applicant :</b> <b>1)Yellapu Madhuri</b> Address of Applicant :D/o Yellapu Nataraju BioValley Incubation Council AMTZ Administrative Office Building C/o AMTZ Campus Pragathi Maidan, VM Steel Project S.O., Visakhapatnam Andhra Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Yellapu Madhuri</b>
(33) Name of priority country	:NA	<b>2)Syed Junaid Ahmed</b>
(86) International Application No	:NA	<b>3)Amit Srivastava</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: Transportable Ex-Vivo Dynamic Perfusion Kidney Preservation Device The present disclosure discloses a transportable ex-vivo dynamic perfusion kidney preservation device 100 that circulates dynamic perfusion liquid to the kidney and maintains a constant temperature i.e., at 50C to perfuse and preserve during transportation until the kidney is transplanted. The preservation device 100 comprises an organ perfusion chamber 101, an organ perfusate reservoir 102, a perfusate pump 103 and a temperature controlling means 104. The preservation device 100 aids to reduce the risk of ischemic injuries by maintaining temperature constantly using thermoelectric or Peltier effect and enhance the maximum period of preservation of the kidney. The preservation device 100 provides continuous circulation, delivers metabolic substrates, removes waste products, and enhances micro-vascular integrity during preservation. The device 100 communicates with remote centers to reduce the abnormalities occurred during transportation and allows dynamic assessment of the graft quality during perfusion.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051676 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A NOVEL SELFISH NODE DETECTION TECHNIQUE IN MANETS

(51) International classification	:H04W0084180000, H04W0084120000, H04W0040240000, H04W0072040000, H04W0016140000	(71) <b>Name of Applicant :</b> <b>1)BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)A. KARTHIKAYEN</b>
(33) Name of priority country	:NA	<b>2)DR. S. SELVAKUMAR RAJA</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Novel selfish node detection technique in MANETs The presence of selfish nodes in the mobile ad hoc network, intentionally influences the network performance and trust is degraded by the non-cooperative behavior that does not forward data packets to their neighborhood cooperative mobile nodes. The invention is directed at enforcing an efficient detection and isolation of selfishly behaving mobile nodes from the network. A Skellam Distribution Inspired Trust Factor-based Selfish Node Detection Technique (SDITF-SNDT) is proposed and it initiates the process of selfish node detection by determining the mean packet deviation through which the standard deviation and variance is estimated for computing SDITF. This SDITF computation aids in reliability estimation of nodes in order to categorize them into selfish and cooperative. The experimental investigations of the proposed approaches give on an average by 16% and 14% superior performance compared to the prior selfish node isolation approaches.

No. of Pages : 29 No. of Claims : 2



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051687 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : MECHANISM FOR LOW LATENCY COMMUNICATION USING HISTORICAL BEAM INFORMATION

(51) International classification	:H04W0076270000, H04W0076190000, H04W0072120000, H04W0076110000, H01Q0003260000	(71) <b>Name of Applicant :</b> <b>1)APPLE INC.</b> Address of Applicant :One Apple Park Way, Cupertino, California 95014 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VENKATARAMAN, Vijay</b>
(33) Name of priority country	:NA	<b>2)MATOLIA, Rohit R.</b>
(86) International Application No	:NA	<b>3)SU, Li</b>
Filing Date	:NA	<b>4)PRABHAKAR, Alosious Pradeep</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This disclosure relates to techniques for a wireless device to perform low latency communication using historical beam information. The wireless device may establish a radio resource control connection, and may subsequently release the resource control connection. The wireless device may store antenna element and beam information for the resource control connection. The wireless device may determine whether to use the stored antenna element and beam information when establishing another radio resource control connection. If the wireless device determines to do so, the wireless device may use the stored antenna element and beam information when establishing that radio resource control connection.

No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051698 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN ANTI-DENT DEVICE FOR PROTECTING THE EXHAUST FLEXIBLE BELLOW IN A VEHICLE

(51) International classification	:F01N0013180000, F01N0013080000, F16L0051020000, B60N0002220000, B61D0017220000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Akil Arshad</b>
(33) Name of priority country	:NA	<b>2)Mr. Udayakanth G</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses an anti-dent device for protecting the exhaust flexible bellow in a vehicle, wherein the device (100) comprises one pair of stoppers (101a, 101b) and one pair of L-angle plates (102a, 102b) which are disposed on the top and bottom portion of the exhaust flexible bellow. The pair of stoppers (101a, 101b) is welded on one end of the exhaust flexible bellow and the pair of L-angle plates (102a, 102b) is welded on the opposite end of the exhaust flexible bellow. The free end of the pair of L-angle plates (102a, 102b) is flexibly accommodated into the provisions in the pair of stoppers (101a, 101b) such that the pair of stoppers (101a, 101b) controls movement of the pair of L-angle plates (102a, 102b) during an event of a load acting on it. (Figure 1)

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : A METHOD FOR PRE-COOLING THE CHOPPER RESISTOR FOR OPTIMIZING BRAKING PERFORMANCE IN AN ELECTRIC VEHICLE

(51) International classification	:B60L0003000000, B60L0007220000, H02P0003140000, B60L0015280000, B60L0007060000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Sashank Vedula</b>
(33) Name of priority country	:NA	<b>2)Mr. Vivek Prahlada</b>
(86) International Application No	:NA	<b>3)Mr. Chandrashekara Munirajappa</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

A method for pre-cooling the chopper resistor for optimizing braking performance in an electric vehicle [0019] The present invention discloses a method for pre-cooling the chopper resistor for optimizing braking performance in an electric vehicle, wherein the method (100) comprises the steps of monitoring vehicular parameters corresponding to the temperature of the chopper resistor, Status Of Charge (SOC) of the vehicle<sup>TM</sup>s battery and ambient temperature in real time and obtaining the pattern of braking operation of the vehicle using a predicted velocity profile. The predicted outcome estimates the recuperation energy (E) which is recovered by the electric motor in the vehicle and the energy required to charge the vehicle<sup>TM</sup>s battery completely (E1), wherein the E and E1 are compared. If the E is lesser than E1, the excess energy is employed for charging the vehicle<sup>TM</sup>s battery. Conversely, if E is greater than E1, the chopper resistor is pre-cooled.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051730 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD, APPARATUS AND A COMPUTER-READABLE MEDIUM FOR EXECUTING A SET OF INSTRUCTIONS ON DIVERSE COMPUTING DEVICE

(51) International classification	:H04L0029080000, G06F0011070000, G06F0021540000, G06F0009445000, A61B0005000000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :Stuttgart - 70546 Germany (72) <b>Name of Inventor :</b> <b>1)Suresh Govindachar</b>
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method, apparatus and a computer-readable medium for executing a set of instructions on diverse computing devices, where the computing device comprises a first processing unit and the second processing unit. The method comprises isolating from processing of an application a first section and a second section of the full set of instructions, then loading the set of instructions in a memory of the computing device. The first section contains instructions specific to the processing needed by an application and is executable by the first processing unit and the second processing unit and the second section contains instructions specific to launching instructions on the first processing unit and also instructions specific launching instructions on the second processing unit. The method further comprises executing the set of instructions by combining the first section with the second section and invoking the launch instructions specific to the first processing unit or combining the first section with the second section and invoking the launch instructions specific to the second processing unit.



No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051731 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : HYDROGEL GROWN ON ACRYLOLYLATED CHITOSAN AS ADSORBENT FOR TOXIC METAL ION AND DYE REMOVAL

(51) International classification :C02F0001280000,  
B01J0020280000,  
A61K0031000000,  
B01J0020300000,  
B01D0053640000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)SUBHAPRIYA PUSPARAJU**

(72)Name of Inventor :  
**1)DHANAPAL VENKATACHALAM**  
**2)SUBHAPRIYA PUSPARAJU**

(57) Abstract :

An adsorbent was synthesized free radically at 70°C using acryloylated chitosan (AC-chitosan) as macromer, 2-acrylamido-2-methyl-1-propanesulfonic acid (AMPS), 2-(diethylamino) ethylmethacrylate (DAEMA) as co-monomers and N, N'-methylene bisacrylamide (N-MBA) as a crosslinker for using as adsorbents in effluent remediation. Their structures (<sup>1</sup>H and <sup>13</sup>C-NMR), thermal stability (TG/DTG); surface morphology (SEM), reactive blue 4 (RB 4), toxic metals such as arsenic (AsO<sub>2</sub><sup>-</sup>) and mercury (Hg<sup>2+</sup>) uptake, swellability and reusability were evaluated. The adsorption of RB 4 (701 mg/g), and the uptake of AsO<sub>2</sub><sup>-</sup> (551 mg/g) and Hg<sup>2+</sup> (455 mg/g) showed Langmuir isotherm behavior with pseudo-first-order kinetics. The diffusion of water, RB 4, AsO<sub>2</sub><sup>-</sup> and Hg<sup>2+</sup> into the matrix followed non-Fickian mechanism. The evaluated changes in Gibbs free energy (ΔG<sup>0</sup>), entropy (ΔS<sup>0</sup>) and enthalpy (ΔH<sup>0</sup>) for adsorption indicated that the process was exothermic.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051757 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : COMPOUNDS DERIVED FROM INDOLIN-3-ONE, COMPOSITIONS THEREOF AND USE THEREOF FOR DYEING KERATIN FIBERS

(51) International classification	:A61Q0005100000, A61K0008490000, A61K0008410000, A61Q0005060000, A61K0008350000	(71) <b>Name of Applicant :</b> <b>1)L'OREAL</b> Address of Applicant :14, rue Royale 75008 PARIS, France France
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RICHA MEHTA</b>
(33) Name of priority country	:NA	<b>2)CHOUDHURY, Ratnadeep Paul</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to compounds derived from indolin-3-one and to the use thereof for dyeing keratin fibers.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051767 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : APPARATUS FOR PREPARING FLATBREAD

(51) International classification	:A21C0011000000, A21C0001140000, A21C0001020000, A21C0001000000, B05C0011100000	(71) <b>Name of Applicant :</b> <b>1)HASHINCLUDE COMPUTECH PRIVATE LIMITED</b> Address of Applicant :11, 4TH CROSS, 2ND MAIN RD, RPC LAYOUT, BENGALURU, KARNATAKA 560104, INDIA Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)THIRUMARAN MATHIVANAN</b>
(33) Name of priority country	:NA	<b>2)DEEPAK BYADARAHALLI SHIVALINGAIAH</b>
(86) International Application No	:NA	<b>3)SHIVA SHANKAR J</b>
Filing Date	:NA	<b>4)SRIKANT SREENIVASAN</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus for automatic preparation of flatbread is disclosed. The apparatus includes a flour dispenser, configured to hold a pre-determined quantity of flour. The flour dispenser is configured to dispense the flour via a first opening. The apparatus also includes a kneader & extruder assembly, configured to mix the pre-determined quantity of flour with water. Here, the kneaded flour is dispensed out via a second opening for a pre-configured shape of dough. The apparatus also includes a rolling unit mechanically coupled to the second opening, configured to collect and transfer the mixed dough. The apparatus also includes a cutter, configured to cut the pre-configured shaped dough. The apparatus also includes a plate, positioned below the rolling unit and configured to hold and heat the pre-configured shaped dough. The apparatus also includes a flipper unit, configured to flip the pre-configured shaped dough over the plate for cooking. FIG. 1

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051786 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR THE PREPARATION OF STABLE AND HIGHLY PURE CRYSTALLINE FORM III OF LORCASERIN HYDROCHLORIDE HEMIHYDRATE

(51) International classification	:C07D0223160000, C12N0007020000, C23C0018320000, C12N0015850000, B65B0031000000	(71) <b>Name of Applicant :</b> <b>1)SYMED LABS LIMITED</b> Address of Applicant :8-2-293/174/3, Beside B.N. Reddy Colony, Road No. 14, Banjara Hills, Hyderabad Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MOHAN RAO DODDA</b>
(33) Name of priority country	:NA	<b>2)VENUGOPAL BINGI</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is an improved, consistently reproducible and commercially viable process for the production of highly pure and stable crystalline Form III of Lorcaserin hydrochloride hemihydrate essentially free of other polymorphic forms.

No. of Pages : 27 No. of Claims : 8



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051801 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : COOKING APPARATUS

(51) International classification	:A47J0027000000, A47J0036060000, A47J0027040000, A47J0037100000, H05B0006120000	(71) <b>Name of Applicant :</b> <b>1)HashInclude Computech Private Limited</b> Address of Applicant :11,4th cross, 2nd Main Rd, RPC Layout, Bengaluru, Karnataka 560104 Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Thirumaran Mathivanan</b>
(33) Name of priority country	:NA	<b>2)Deepak Byadarahalli Shivalingaiah</b>
(86) International Application No	:NA	<b>3)Shiva Shankar J</b>
Filing Date	:NA	<b>4)Srikant Sreenivasan</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**COOKING APPARATUS ABSTRACT** An automatic cooking apparatus is disclosed. The cooking apparatus includes a plurality of dispenser container mechanically coupled to a semi-circle support plate, configured to dispense food items from an opening fabricated inside of each of the plurality of dispenser container. The apparatus includes a cooking container mechanically coupled to the semi-circle support plate, configured to hold dispensed food items and cook them. The apparatus includes a spatula mechanically coupled to the semi-circle support plate via a support frame, configured to stir the dispensed food items held by the cooking container. The apparatus includes a lid cover mechanically coupled to the semi-circle support plate via a lid support plate, configured to cover the cooking container while cooking. FIG. 1

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051804 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : DYNAMIC VARIANCE MECHANISM FOR SECURING ENTERPRISE RESOURCES USING A VIRTUAL PRIVATE NETWORK

(51) International classification	:H04L0029060000, H04L0012460000, G01D0004000000, G06F0021000000, G16H0040200000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ARJUN KOCHHAR</b>
(33) Name of priority country	:NA	<b>2)SUMAN ALUVALA</b>
(86) International Application No	:NA	<b>3)AMIT YADAV</b>
Filing Date	:NA	<b>4)AMAN SRIVASTAVA</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are various examples for securing enterprise resources using a virtual private network. A client device can send a first unique device identifier for the client device to a remote management service upon enrollment. When a virtual private network application is first executed, the client device can send a second unique device identifier to the remote management service, where the remote management service is configured to store the second unique device identifier in association with the first unique universal identifier. During subsequent executions of the virtual private network application, the virtual private network service can authenticate the client device by comparing the first unique device identifier and the second unique device identifier to a device identifier received from the remote management service. A machine learning routine can be employed to identify anomalies as the virtual private network application is executed.

No. of Pages : 46 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051846 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND SYSTEM FOR ASSISTING USER WITH PRODUCT HANDLING IN RETAIL SHOPPING

(51) International classification	:G06Q0030060000, G06Q0030020000, G06Q0010080000, B65G0001137000, A63B0069000000	(71) <b>Name of Applicant :</b> <b>1)WIPRO LIMITED</b> Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Shashidhar Soppin</b>
(33) Name of priority country	:NA	<b>2)Manjunath Ramachandra Iyer</b>
(86) International Application No	:NA	<b>3)Bangalore Chandrashekar Nagaraj</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**METHOD AND SYSTEM FOR ASSISTING USER WITH PRODUCT HANDLING IN A RETAIL SHOPPING ABSTRACT** The present invention discloses a method and a system for assisting user with product handling in a retail shopping. The method comprising identifying one or more products from a list of products that user intends to purchase, neighbouring products and orientations of the one or more products and the neighbouring products from a plurality of image frames and rack information, comparing the identified orientations with historic orientations of products and neighbouring products associated with the rack information, identifying at least one product from the one or more products and the neighbouring products that is improperly oriented based on comparison, determining product safety handling instructions of the identified at least one product and assisting the user in real-time with handling of the identified at least one product based on the product safety handling instructions. Fig. 1



No. of Pages : 37 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051859 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : Design and architecture for Multi Radio-Multi Connectivity network system

(51) International classification	:H04W0088080000, G06F0017500000, H04B0007185000, H04W0088060000, H04W0084040000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi- do 443-742, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Neha Sharma</b>
(33) Name of priority country	:NA	<b>2)Anshuman Nigam</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Design and architecture for Multi Radio-Multi Connectivity network system • Embodiments herein provide a design and architecture for a MR-MC network system (1000). The method includes providing and defining a role of an MN (200), an SN (300), a C-RAN (100), a CP and a UP in the MR-MC network system (1000). Furthermore, the method includes determining a capability of a UE (400) in the MR-MC network system (1000). Furthermore, the method includes determining RAT measurements associated with the MN (200), an SN1 (300a), and an SN2 (300b) in the MR-MC network system (1000). Furthermore, the method includes configuring functionalities of the MN (200), an SN1 (300a), and an SN2 (300b) based on the capability of the UE (400) and the RAT measurements. Furthermore, the method includes sending an activation/deactivation command for the SN (300) in the MR-MC network system (1000). FIG.10

No. of Pages : 71 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051862 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PRESSURE COOKER

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) <b>Name of Applicant :</b> <b>1)TTK PRESTIGE LIMITED</b> Address of Applicant :Plot No. 38, SIPCOT Industrial Complex, Hosur 635 126, State of Tamil Nadu, India. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)TIRUVALLUR THATAI JAGANNATHAN</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The invention (outer lid of the cooker) incorporates a feature in the lid design which prevents the froth from flowing down the lid of the cooker thus ensuring a safer, a cleaner cooking experience. The lid is a multiple level lid and as central depend portion type structure with peripheral walls to contain the froth leaking out of the weight within the lid. Further a contour is created to contain the froth leaking out the pressure release valve within the lid. The Lid is matched to the body by using the handles provided in the body and lid. The profile of the lid is shaped entirely different from the lids of the pressure cookers available at present. The invention prevents the froth as it comes from the valve stem of the pressure means during the time of the functioning of the weight valve from flowing down the lid and contains them within the contour provided in it. Such froths collected at the lid, due to high temperature of the lid surface gets evaporated very soon, thereby preventing dropping of the froth. Fig. 2

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051863 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PRESSURE COOKER

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) <b>Name of Applicant :</b> <b>1)TTK PRESTIGE LIMITED</b> Address of Applicant :Plot No. 38, SIPCOT Industrial Complex, Hosur 635 126, State of Tamil Nadu, India. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)TIRUVALLUR THATAI JAGANNATHAN</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The invention relates to safety devices and primarily seeks to provide a novel handle double lock mountable on pressure cookers commonly used in homes. It is the purpose of the present invention to provide means, readily mountable upon pressure cookers of the character stated which will make it impossible to move the handles relatively for the purpose of effecting a separation of the body and the cover without the pressure lock dropping downward, almost until zero. The Body is fitted with two side handles. The Lid handle and knob are fitted with the Lid through center stud and nut arrangement. The knob has got a Cam profile which aligns with the two studs provided in the clamp by which the rotation of the knob makes the clamp move but the lid handle is in the same position. Fig. 2

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051867 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND ELECTRONIC DEVICE FOR ACCIDENTAL TOUCH PREDICTION USING ML CLASSIFICATION

(51) International classification	:G06F0003048800, G06F0003041000, G06F0003044000, H04W0012060000, G06K0009620000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :129,Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sunil Rathour</b>
(33) Name of priority country	:NA	<b>2)Nitesh Goyal</b>
(86) International Application No	:NA	<b>3)Ankit Agarwal</b>
Filing Date	:NA	<b>4)Choice Choudhary</b>
(87) International Publication No	: NA	<b>5)Harshit Oberoi</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Vipin Khushu</b>
Filing Date	:NA	<b>7)Nitin Tanwar</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method and electronic device for accidental touch prediction using ML classification • Embodiments herein disclose a method for accidental touch prediction using ML classification. The method includes determining, by an electronic device (100), a mutual data index of a sensor data using a first ML model. Further, the method includes recognizing whether the sensor data corresponds to an object touch or a non-object touch based on the mutual data index. Further, the method includes performing, by the electronic device (100), one of: detecting that the electronic device (100) is in a pocket mode and providing an object touch notification on a touch screen (140) of the electronic device (100) in response to determining that the sensor data corresponds to the object touch, and recognizing whether the sensor data corresponds to an accidental touch or a non-accidental touch using at least one second ML model based on touch data in response to determining that the sensor data corresponds to the non-object touch. FIG. 1

No. of Pages : 62 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051888 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : FLUID FLOW ASSEMBLY FOR CELL CULTURE AND MEASUREMENTS

(51) International classification	:C12M0001000000, C12M0001240000, F03D0007020000, C12M0003000000, H01M0002160000	(71) <b>Name of Applicant :</b> <b>1)JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH</b> Address of Applicant :Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore 560064, India Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NARAYAN, Kavassery Sureswaran</b>
(33) Name of priority country	:NA	<b>2)KONDURI, Anil Krishna</b>
(86) International Application No	:NA	<b>3)CHAKRAM, Deepak Sundar</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :  
AS ATTACHED

No. of Pages : 25 No. of Claims : 11



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051949 A

(19) INDIA

(22) Date of filing of Application :14/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN AERIAL POWER GENERATION SYSTEM

(51) International classification	:B64C0039020000, F03D0005000000, F21S0009020000, A61B0017880000, F03D0009250000	(71) <b>Name of Applicant :</b> <b>1)Manipal Academy of Higher Education</b> Address of Applicant :Tiger Circle Road, Madhav Nagar, Manipal 576104, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SURI, Dhruv</b>
(33) Name of priority country	:NA	<b>2)NAYAK, Raahil</b>
(86) International Application No	:NA	<b>3)PARANJAPE, Aniruddha</b>
Filing Date	:NA	<b>4)RADHAKRISHNAN, Jayakrishnan</b>
(87) International Publication No	: NA	<b>5)MUKHERJEE, Amartya</b>
(61) Patent of Addition to Application	:NA	<b>6)BAJAJ, Anhad</b>
Number	:NA	<b>7)SHENOY, Satish</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system for aerial power generation. The system includes: an aerial structure adapted for floating in air and coupled to a ground station, the aerial structure configured for vertical movement; a power generator coupled with the aerial structure, and comprising rotors adapted for rotation by passage of air through the rotors; and a velocity augmenting apparatus coupled with an inlet of the power generator, and having a tapered body such that a narrow end of the velocity augmenting apparatus is coupled with the inlet of the turbine and a broad end of the velocity augmenting apparatus is provided with a flange and is open to the ambient. At operating altitude of the aerial structure, geometric profile of the velocity augmenting apparatus facilitates provision of air flow into the inlet of the turbine at increased velocity and flow volume as compared to ambient air flow. Fig 1.



No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941051980 A

(19) INDIA

(22) Date of filing of Application :15/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVICE AND METHOD TO DYNAMICALLY CONTROL UNAUTHORISED TRANSMISSION OF MESSAGING IN A MESSAGING PLATFORM

(51) International classification	:H04W0008260000, G06Q0010100000, G06Q0030060000, H04M0003493000, H04B0001180000	(71) <b>Name of Applicant :</b> <b>1)Hemant Misra</b> Address of Applicant :Flat 3111, Sobha Chrysanthemum; Hegde Nagar Main Road, Thanisandra; Bangalore Karnataka India <b>2)Bhavna Misra</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Hemant Misra</b>
(33) Name of priority country	:NA	<b>2)Bhavna Misra</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a method for controlling the unauthorized transmission of a messaging thread in a messaging platform. The method includes the step of receiving first user addresses of intended recipients through an address module. The method then includes the step of initiating a messaging thread by entering textual information and/or attaching a media file through a messaging module or both. Further, the method includes the step of pre-storing second user addresses intended to be removed from the messaging thread through a listing module. The method then includes the step of matching the first user addresses of intended recipients with the second user addresses stored in the listing module through a matching module. The method includes the step of preventing transmission of the messaging thread to the matched second user addresses pre-stored in the listing module through a filter module. The most illustrative drawing: FIG. 3

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052002 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A HEATING VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM AND A HUMIDIFIER THEREFOR

(51) International classification	:B60H0001000000, A61M0016160000, F24F0003160000, F24F0006000000, G01D0005245000	(71) <b>Name of Applicant :</b> <b>1)Valeo Systèmes Thermiques</b> Address of Applicant :Valeo Systèmes Thermiques, 8 rue Louis Lormand, La Verrière, F-78320 Le Mesnil Saint-Denis, France France
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SOORYA, Jaya</b>
(33) Name of priority country	:NA	<b>2)GANESAPERUMAL, Venkatesh</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Heating Ventilation and Air-conditioning (HVAC) system (100) includes at least one sensor (10), a humidifier (20) and a blower (30). The at least one sensor (10) determines humidity of air to be delivered inside a vehicle cabin. The humidifier (20) operates between an operative configuration and an inoperative configuration thereof based on humidity of air determined by the at least one sensor (10). The humidifier (20) includes a tubular element (22) and at least one movable element (24). The at least one movable element (24) is at least partially received in and moved in the tubular element (22) to define the operative configuration and the inoperative configuration of the humidifier (20) respectively. In the operative configuration, the at least one movable element (24) configures low-pressure throat (25) to receive liquid from a reservoir (26).

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052017 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AT LEAST ONE FIN BLADE ADAPTED TO DESSIPATE HEAT FROM A FUEL INJECTOR

(51) International classification	:F02M0051060000, F02M0061160000, F02M0061140000, B32B0027340000, G11B0005390000	(71) <b>Name of Applicant :</b> <b>1)Bosch Limited</b> Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore 560030, Karnataka, India. Karnataka India <b>2)Robert Bosch GmbH</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Manjunath Tumkur Siddabyraiah</b>
(33) Name of priority country	:NA	<b>2)Srinath Ranganathan</b>
(86) International Application No	:NA	<b>3)Madhu Hosahalli Venkatesha Gowda</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fuel injector 10 is described. The fuel injector 10 comprises an injector housing 12 and an injector magnet head 14 secured to the injector housing 12. The injector magnet head 14 is adapted to regulate a flow of fuel from the injector housing 12 to a combustion chamber of an engine. The injector magnet head 14 is further adapted to regulate a flow of fuel from the injector housing 12 to an overflow supply path 16 via the injector magnet head 14. At least one fin blade 18 is integrally formed on an outer periphery of the injector magnet head 14, the at least one fin blade 18 adapted to dissipate heat from the fuel in the fuel injector 10 to the surroundings around the fuel injector 10.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052018 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A REVERSE ASSIST SYSTEM AND DEVICE FOR A VEHICLE, AND A METHOD THEREOF

(51) International classification	:F02N0011080000, B60T0007120000, G01P0013040000, B60K0028040000, B60K0006520000	(71) <b>Name of Applicant :</b> <b>1)Robert Bosch Engineering and Business Solutions Private Limited</b> Address of Applicant :123, Industrial Layout, Hosur Road, Koramangala, Bangalore 560095, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	<b>2)Robert Bosch GmbH</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)Vishnu Parakkat</b>
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number: Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A REVERSE ASSIST SYSTEM AND DEVICE FOR A VEHICLE, AND A METHOD THEREOF Abstract The vehicle 130 comprises an internal combustion engine 102 and a starter motor 108. The system 100 comprises, a direction sensor 106 to detect direction of movement of the vehicle 130. An assist freewheel member 118 is provided in the vehicle 130. The assist freewheel member 118 couples the starter motor 108 to a driven wheel 104 of the vehicle 130. Further, a controller 110 is provided which is connected to the direction sensor 106. The controller 110 adapted to, detect a reverse movement of the vehicle 130 based on a signal received from the direction sensor 106. The reverse movement indicates a rider<sup>TM</sup>s intention to move the vehicle 130 backwards. The controller 110, then drives the starter motor 108 to assist the driven wheel 104 through the assist freewheel member 118. The starter motor 108 gets activated only when the rider<sup>TM</sup>s intent to reverse the vehicle 130 is detected.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052019 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A LOAD CARRIER, A CHASSIS FRAME AND A VEHICLE EMPLOYING THE SAME

(51) International classification	:B60P0001640000, B60W0010080000, B60G0003200000, B62D0021140000, B62B0005020000	(71) <b>Name of Applicant :</b> <b>1)Bosch Limited</b> Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore 560030, Karnataka, India. Karnataka India <b>2)Robert Bosch GmbH</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gopal Krishna Setharamaiah</b>
(33) Name of priority country	:NA	<b>2)Vijay Dharwad</b>
(86) International Application No	:NA	<b>3)Manikandan Jaganathan</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The load carrier 110 comprises a platform 124 to hold a load, characterized by, the load carrier 110 capable of being mounted on a chassis frame 104 of the vehicle 100 in a removable manner. The vehicle 100 is preferably a transport vehicle 100 such as Light Commercial Vehicle (LCV), lorry, however not restricted to the same. A modular mobile load carrier 110 with kinematic wheel arrangement and guide rail 102 in the vehicle 100 is provided. The present invention is applicable for an electric vehicle 100, a hybrid vehicle 100 and the combustion engine vehicle 100. The modular load carrier 110 has feasibility to detach and transport to the bay area without the vehicle 100 itself. Along with the load carrier 110, a chassis frame 104 for the vehicle 100, and the vehicle 100 itself is also disclosed.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052025 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR PRICE OPTIMIZATION OF A RETAIL PORTFOLIO

(51) International classification	:G06Q0010060000, H04L0029060000, G06Q0040060000, G06Q0030020000, G06Q0010040000	(71) <b>Name of Applicant :</b> <b>1)Myntra Designs Private Limited</b> Address of Applicant :3rd floor, AKR TECH Park, Krishna Reddy Industrial Area, Muneshwara Nagar, Bangalore 560068 INDIA Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sumit Borar</b>
(33) Name of priority country	:NA	<b>2)Abhishek Sharma</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

System and method for optimizing prices of a plurality of retail items in a portfolio are presented. The system includes a demand estimator and a price optimizer including a return computation module, a price configuration generator and a price configuration selector. The demand estimator is configured to estimate a set of demand values for the plurality of retail items at a plurality of discount levels. The return computation module is configured to compute return on investment (ROI) values for the plurality of retail items. The price configuration generator is configured to generate a plurality of price configurations for the plurality of retail items and the price configuration selector is configured to select an optimum price configuration from the plurality of price configurations based on a sales target for the portfolio.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052026 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR TRANSFORMING IMAGES OF RETAIL ITEMS

(51) International classification	:G06K0009620000, G06K0009460000, G06T0017200000, G06N0003040000, G06N0003080000	(71) <b>Name of Applicant :</b> <b>1)Myntra Designs Private Limited</b> Address of Applicant :3rd floor, AKR TECH Park, Krishna Reddy Industrial Area, Muneshwara Nagar, Bangalore 560068 INDIA Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vishnu Vardhan Makkapati</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and method for transforming images of retail items using generative models are presented. The system includes an image acquisition unit and a processor including a training module, a latent vector generator, a latent vector modifier, and an image generator. The image acquisition is configured to access an input image of a selected retail item and a sample target image. The training module is configured to train a generative model. The latent vector generator is configured to generate a first latent vector and a second latent vector from the trained generative model based on the input image of the selected retail item and the sample target image, respectively. The latent vector modifier is configured to modify the second latent vector based on the first latent vector to generate a modified latent vector; and the image generator is configured to generate an output image based on the modified latent vector.

No. of Pages : 34 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052031 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A NOVEL SYSTEM AND METHOD FOR FOOD WASTE TREATMENT

(51) International classification	:B09B0003000000, E03C0001266000, B65F0001140000, C12M0001000000, B02C0018000000	(71) <b>Name of Applicant :</b> <b>1)BHARATH VETRIVEL</b> Address of Applicant :#15, 1ST AVENUE, INDIRA NAGAR, ADYAR, CHENNAI Tamil Nadu India <b>2)RAVI AYYANGAR</b> <b>3)SRIKANT SITARAMAN</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHARATH VETRIVEL</b>
(33) Name of priority country	:NA	<b>2)RAVI AYYANGAR</b>
(86) International Application No	:NA	<b>3)SRIKANT SITARAMAN</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of food waste treatment; particularly to a system and method for handling and treating food waste. The present invention more particularly relates to kitchen waste disposal methods. The invention is advantageous for handling and treating food waste at a source where the waste is generated, for example, hotels, restaurants, institutions and apartments etc.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052040 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : CRASH BUMPER BEAM

(51) International classification	:B60R0019180000, B60B0035000000, B60R0019340000, B60R0019040000, B60R0019020000	(71) <b>Name of Applicant :</b> <b>1)Valeo Systèmes Thermiques</b> Address of Applicant :8 rue Louis Lormand, La Verrière, F-78320 Le Mesnil Saint-Denis, France France
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)SEBASTIEN VELASCO</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

CRASH BUMPER BEAM The present invention provides a crash bumper beam. The crash bumper beam includes at least one organo-sheets housing and a steel insert. The steel insert has a first side and a second side opposite to the first side. Further, the first side of the steel insert is provided in contact with the at least one organo-sheets housing and the second side of the steel insert is adapted to be coupled to a vehicle. Fig. 1B is to be published along with the abstract

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052045 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD OF LEVERAGING TRAVELLER<sup>TM</sup>S RESOURCES FOR PACKAGE DELIVERY

(51) International classification	:G06Q0020320000, D01H0007600000, H04M0015000000, G06Q0030020000, G01S0013910000	(71) <b>Name of Applicant :</b> <b>1)VLIFT SERVICES PRIVATE LIMITED</b> Address of Applicant :11-136, Sahithi Nagar, Near Shiva Ganga Theatre, Dilsukhnagar, Hyderabad, Telangana-500060, India Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VARUN NARRA</b>
(33) Name of priority country	:NA	<b>2)KRISHNA CHAITANYA SATHU</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system and method of leveraging traveler<sup>TM</sup>s resources for package delivery. The system comprising: a traveler<sup>TM</sup>s resources leveraging and package delivery module configured to receive, process and transmit information related to package receipt and delivery from a traveler<sup>TM</sup>s device, a receiver<sup>TM</sup>s device and a sender<sup>TM</sup>s device respectively; a receiver, a sender and a traveler configured to create a receiver<sup>TM</sup>s account, a sender<sup>TM</sup>s account and a traveller<sup>TM</sup>s account in the traveler<sup>TM</sup>s resources leveraging and package delivery module by providing relevant inputs required to authenticate a setting up of the receiver<sup>TM</sup>s account, the sender<sup>TM</sup>s account and the traveler<sup>TM</sup>s account on the receiver<sup>TM</sup>s device, the sender<sup>TM</sup>s device and the traveler<sup>TM</sup>s device respectively, and whereby the traveler<sup>TM</sup>s resources leveraging and package delivery module and the traveler<sup>TM</sup>s device, the receiver<sup>TM</sup>s device and the sender<sup>TM</sup>s device are communicated through a network; and a database. FIG 1

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052103 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR PREPARATION OF AN AZOLE FUNGICIDE

(51) International classification	:C07D0231120000, C07D0249080000, A01N0043653000, C07D0233560000, C07D0403060000	(71) <b>Name of Applicant :</b> <b>1)COROMANDEL INTERNATIONAL LIMITED</b> Address of Applicant :Coromandel House, Sardar Patel Road, Secunderabad, Telangana, India Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Venkata Krishna Kishore NARKEDIMILLI</b>
(33) Name of priority country	:NA	<b>2)Venkata Balireddy PERLA</b>
(86) International Application No	:NA	<b>3)Ramesh Kumar DURGA</b>
Filing Date	:NA	<b>4)Balram BHAVANI</b>
(87) International Publication No	: NA	<b>5)Aminul ISLAM</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN IMPROVED PROCESS FOR PREPARATION OF AN AZOLE FUNGICIDE The present invention relates to an improved processes for the preparation of a fungicide of the class of azoles. The present invention specifically relates to an improved process for the preparation of (2RS,3RS;2SR,3SR)-2-(4-chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol having the following Formula I.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052158 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : ENERGY-ABSORBING DEVICE

(51) International classification	:B60D0001560000, G02B0021360000, B60D0001480000, B60D0001520000, H01L0023290000	(71) <b>Name of Applicant :</b> <b>1)Valeo Systèmes Thermiques</b> Address of Applicant :8 rue Louis Lormand, La Verrière, F-78320 Le Mesnil Saint-Denis, France France
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sebastien VELASCO</b>
(33) Name of priority country	:NA	<b>2)Arunkumar SUBRAMANIAN</b>
(86) International Application No	:NA	<b>3)Arulkumaran MOHAN</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT ENERGY-ABSORBING DEVICE** The present invention herein provides an energy-absorbing device for a vehicle. The device comprising a housing and a tow hook. The housing includes a first portion and a second portion that is coupled to the first portion. The tow hook having a first element and a second element perpendicular to the first element. Further, the tow hook is encrusted in the housing. Fig. 2A is to be published along abstract

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052164 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR PREDICTING RECOMMENDATIONS BASED ON APPLICATION REQUIREMENT IN AN ELECTRONIC DEVICE

(51) International classification	:G06F0003048800, A01C0021000000, G16H0020100000, A61B0005145000, G06F0003023000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :House No. 129,Samsung-ro, Street Yeongtong-gu, Suwon-si, Gyeonggi-do City - State - Country Republic of Korea Pin code 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sandeep Singh Spall</b>
(33) Name of priority country	:NA	<b>2)Prajeet Thakur</b>
(86) International Application No	:NA	<b>3)Gaurav Kumar Bhardwaj</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Method for predicting recommendations based on application requirement in an electronic device • Embodiments herein disclose a method for predicting recommendations based on application requirement in an electronic device (100). The method comprises detecting at least one application (150) running in the electronic device (100) and receiving a local dictionary specific to the at least one application (150). The method further comprises receiving, by the electronic device (100), an input from the user using a input application (160) and predicting, by the electronic device (100), at least one recommendation related to the input provided by the user based on the local dictionary specific to the at least one application (150) and a global dictionary specific of the electronic device (100). The method also comprises displaying, by the electronic device (100), the at least one predicted recommendations on the screen (140) of the electronic device. FIG. 4

No. of Pages : 37 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052211 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN APPARATUS FOR CHILD RESCUE

(51) International classification	:B25J0009040000, B25J0013080000, F16H0025200000, B24B0049160000, B64C0039020000	(71) <b>Name of Applicant :</b> <b>1)K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY</b> Address of Applicant :THE PRINCIPAL KARIYAMANICKAM ROAD, TRICHY, TAMIL NADU, INDIA, PIN-621 112. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)M.PERIAKARUPPAN</b>
(33) Name of priority country	:NA	<b>2)Dr. M. KAVITHA</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN APPARATUS FOR CHILD RESCUE The present invention provides a solution for safely.rescue the trapped child from the borewell. The child rescue apparatus (60) comprising an upper compartment (61), lower compartment (62), monitoring unit (79), robotic arm (63), main rod (65), auxiliary rod (64), string (73), sliding lock (69) and a spring (68). The monitoring unit (79) identifies the present situation of the child and the protective unit auxiliary rod (64) deformation is avoiding the child movement inside of the bore. The rotatable lower compartment (62) is controlled the horizontal direction of the robotic arm (63) and servo motors and string connections are controlled the. vertical direction. The bidirectional movement of the apparatus and robotic arm is safely recovers the child with the aid of processor. Most illustrative Fig 1

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052213 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SOLAR TRACKING APPARATUS

(51) International classification	:F24S0030000000, H02S0020320000, F24S0050200000, H01L0031054000, G01S0003786000	(71) <b>Name of Applicant :</b> <b>1)M. KUMARASAMY COLLEGE OF ENGINEERING</b> Address of Applicant :THE PRINCIPAL, THALAVAPALAYAM, KARUR Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)S. NISHANTH</b>
(33) Name of priority country	:NA	<b>2)Dr. S. BANUMATHI</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a solar tracking apparatus (70) for capturing the sunlight efficiently through changing direction of solar panels automatically in an effective manner. The tracking apparatus comprising a sine wave cylinder (76), wheel guiding path (77), travelling wheel (78), connecting rod (79), motor (74), vertical shaft (80), rotatable joint (82), rotatable holder (81) and disk (84). The predefined angular rotation of motor changes the tracking direction of solar panel through the vertical shaft (80) rotation and the wheel (78) movement over wheel guiding path in top of sine wave cylinder (76). The rotatable joints are maintaining the smooth movement of panel holder (85) mounted disk in the bi-directional movement. The solar tracking apparatus (70) will increase the power generating efficiency of solar panels through the multidirectional tracking. Most illustrative Fig 1



No. of Pages : 16 No. of Claims : 10



(54) Title of the invention : ROTATABLE SPADE

(51) International classification	:A01B0001020000, A63B0021000000, F01D0017160000, H01L0021670000, E02F0003020000	(71) <b>Name of Applicant :</b> <b>1)M. KUMARASAMY COLLEGE OF ENGINEERING</b> Address of Applicant :THE PRINCIPAL, THALAVAPALAYAM, KARUR Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)T. MOHAN</b>
(33) Name of priority country	:NA	<b>2)P. GAJENDRAN</b>
(86) International Application No	:NA	<b>3)S. SHEIK BARKATH</b>
Filing Date	:NA	<b>4)Dr.C. RAMESH</b>
(87) International Publication No	: NA	<b>5)M. MOHAN PRASAD</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a rotatable spade (210) for easily changing the spade blade angles depending on the soil condition and the farmer's height. The rotatable spade comprising a movable ring (213), handle ring (212), Teflon handle (211), blade (218), slot hole (216), blade ring (223), connecting arm (217), primary (221) and secondary rotatable clamp (222). The movable ring (213) moves over the handle to change the blade angle by inserting an angle locking pin (215) on the slot hole (216). The connecting arm transfers the moveable ring linear movement into angular movement of blade with the help of blade ring, primary and secondary rotatable clamps. The handle ring (212) one end is mounted with the handle (211) with the aid of ring locking pin (214) and other end is joined with the blade ring with the help of bolt and nut. Most illustrative Fig 1



No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052223 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : MULTI CAMERA BASED INTELLIGENT VIDEO STABILIZATION THROUGH REAL TIME MOTION ANALYSIS

(51) International classification	:H04N0005232000, H04N0007180000, G06T0007246000, H04N0009820000, G06Q0010100000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd</b> Address of Applicant :129,Samsung-ro,Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea,443-742 Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ANKIT SHUKLA</b>
(33) Name of priority country	:NA	<b>2)ABHIJIT DEY</b>
(86) International Application No	:NA	<b>3)GAURAV KHANDELWAL</b>
Filing Date	:NA	<b>4)ASHISH KUMAR SINGH</b>
(87) International Publication No	: NA	<b>5)KIRAN NATARAJU</b>
(61) Patent of Addition to Application Number	:NA	<b>6)RAJIB BASU</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Method and electronic device for motion adaptive video stabilization • A method includes configuring at least one image sensor (170a or 170b) of an electronic device (100) in a first mode in response to determining that the motion of the electronic device (100) meets the first motion criteria, recording at least one frame in the first mode using the at least one image sensor (170a or 170b) of the electronic device (100), automatically configuring the at least one image sensor (170a or 170b) into a second mode in response to determining that the motion of the electronic device (100) meets the second motion criteria, recording at least one frame in a second mode using at least one image sensor (170a or 170b) of the electronic device (100), generating a media file by composing the at least one frame recorded in the first mode and the at least one frame recorded in the second mode, and store the media file. FIG. 5

No. of Pages : 32 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052249 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : VARIABLE SURFACE SHEET-BLANK HOLDER MECHANISM FOR INCREMENTAL SHEET FORMING (ISF) PROCESS.

(51) International classification	:G10L0019060000, A61B0017000000, B21D0031000000, A61B0017320000, B29C0037000000	(71) <b>Name of Applicant :</b> <b>1)MAHINDRA &amp; MAHINDRA LIMITED</b> Address of Applicant :MAHINDRA RESEARCH VALLEY, MAHINDRA WORLD CITY, P.O. ANJUR, CHENGALPATTU - 603 204, DISTT. KANCHEEPURAM, TAMIL NADU, INDIA. Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. ACHYUT DESHMUKH</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A Variable Surface Sheet-Blank holder mechanism for incremental Sheet Forming (ISF), comprising: Variable Support Surface/s (VSS) formed of Local Support Surface/s (LSS) of power pin (PP) grids; VSS mounted on ISF machine pedestal; VSS formed by controlled operation of power pins (PP) ISF machine ECU; Single-Point ISF tool/s (T) mounted on ISF machine robotic arm for SP-ISF or DSP-ISF process on a sheet blank; slots provided about the mechanism laterally retracting LSS therein to create working space within the VSS to operate ISF (T) therein; wherein each of Local Support Surface/s (LSS) of power pin grids of VSS are pre-configured by ECU according to a targeted profile of sheet component to be manufactured by SP/DP-ISF process, the LSS of power pin (PP) grids firmly holding sheet blank in any two directions in a 3-dimensional space to conduct ISF process in the remaining third direction of the 3-dimensional space. An SP/DP-process using Variable Surface Sheet-Blank holder mechanism above is also provided. FIGURE 6b.

No. of Pages : 39 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052276 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : NONWOVEN ARTICLE

(51) International classification	:B32B0005260000, B32B0005020000, D04H0003020000, D04H0001495000, D04H0013000000	(71) <b>Name of Applicant :</b> <b>1)SAINT-GOBAIN ABRASIVES, INC.</b> Address of Applicant :One New Bond Street, Worcester, MA 01615-0138, USA U.S.A. <b>2)SAINT-GOBAIN ABRASIFS</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mitul D. ZAVERI</b>
(33) Name of priority country	:NA	<b>2)Sumi DINKAR</b>
(86) International Application No	:NA	<b>3)Vinayak OGALE</b>
Filing Date	:NA	<b>4)Veeraraghavan SRINIVASAN</b>
(87) International Publication No	: NA	<b>5)Manisha MOHAPATRA</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A nonwoven article includes a nonwoven substrate having from a lofty, open web of fibers formed through a needling process. The nonwoven substrate is coated with at least one coating to provide improved performance characteristics including loft, elongation, tensile strength, stiffness, pore size, permeability, fiber orientation index, and combinations thereof.

No. of Pages : 77 No. of Claims : 81

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052303 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF SELEXIPAG INTERMEDIATES

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) <b>Name of Applicant :</b> <b>1)Vasudha Pharma Chem Limited</b> Address of Applicant :78/A, Vengalrao Nagar, Hyderabad Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MANTENA VENKATA RAMA RAJU</b>
(33) Name of priority country	:NA	<b>2)MANTENA ASHOK SRINIVASA RAJU</b>
(86) International Application No	:NA	<b>3)MANTENA ANAND</b>
Filing Date	:NA	<b>4)RAGHURAM SURAPARAJU</b>
(87) International Publication No	: NA	<b>5)SITARAMAIAH DEVARASETTY</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MANTHENA SURYANARAYANA RAJU</b>
Filing Date	:NA	<b>7)INKOLLU SUBBA RAO</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application disclosed a process for the preparation of 2-halo-5,6-diphenyl-1,4-pyrazine, an intermediate of Selexipag. Wherein, X is a halogen selected from the group consisting of chloro, bromo and iodo.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052307 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF APALUTAMIDE

(51) International classification	:C07C0053100000, C07C0055080000, C07C0213080000, C07D0489120000, C07C0055100000	(71) <b>Name of Applicant :</b> <b>1)AUROBINDO PHARMA LTD</b> Address of Applicant :AUROBINDO PHARMA LIMITED The Water Mark Building, 1st Floor, Plot No.11, Survey No.9, Hitech City, Kondapur, Hyderabad, Telangana Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)CHANDIRAN TAKSHINAMOORTHY</b>
(33) Name of priority country	:NA	<b>2)RAKESH SINGH</b>
(86) International Application No	:NA	<b>3)MEENAKSHISUNDERAM SIVAKUMARAN</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A PROCESS FOR THE PREPARATION OF APALUTAMIDE The present invention relates to an improved process for the preparation of compound of Formula II and its conversion to apalutamide of Formula I or pharmaceutically acceptable salts thereof.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052315 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A PROCESS OF ENHANCING THE PRESSURE RATIO USING BASE INTEGRATED SYMMETRIC OR ASYMMETRIC DOUBLE CONES

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) <b>Name of Applicant :</b> <b>1)Mohammed Rasheed.C</b> Address of Applicant :Cheralil house, Chelakkad Post, Kattuppara, Pulamanhole via, Perintalmanna, Malappuram district, Kerala - 679323. Kerala India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MOHAMMED RASHEED.C</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is mainly based on Base Integrated Symmetrically or Asymmetrically 5 Rationed (Especially Golden Aspect Rationed) Double Cones (BISARDC), supported by cantilever support (4), and are implemented in between blades (8)/in controlled annulus column volume of axial flow compressor stator vanes. The elongated structures (2) are conical structures (6<sup>TM</sup>, 6<sup>TMTM</sup>), with circular base (7<sup>TM</sup>, 7<sup>TMTM</sup>), comprising two vertices (3). The cantilever support (4) is physically coupled to elongated structure (2) about center (Ce) of central axis 10 (Ae) passing through vertices (3) of the elongated structure (2), and is physically coupled to outer casing (5) from its other end, thereby providing strong support to elongated structure (2). The elongated structure (2) is aligned in such a way, that length (Le) of elongated structure (2), which is defined as distance between two vertices (3), is substantially parallel to a width (Wo) of the outer casing (5). 15 Fig. 1 is a representative figure.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052357 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AN OPTIMIZED METHOD FOR PRODUCTION OF SILICON CARBIDE

(51) International classification	:G05B0023020000, C01B0032956000, G01M0015040000, B27B0001000000, F22B0035180000	(71) <b>Name of Applicant :</b> <b>1)Indian Institute of Science</b> Address of Applicant :C V Raman Road, Bangalore -560012, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)G.S. GUPTA</b>
(33) Name of priority country	:NA	<b>2)PRINCE RAJ</b>
(86) International Application No	:NA	<b>3)M.P.L.N. RAO</b>
Filing Date	:NA	<b>4)RAKESH KUMAR</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an optimized method for production of Silicon Carbide. The method is conducted in a system, which includes resistive furnace, electrode assembly, cooling system, a power unit, temperature measurement devices, and raw materials. The operation variables such as process time, process temperature, and raw material composition for the method can be varied in the system to find the optimum values of the operation variables at which maximum product (SiC) yield is achieved. A computer-based 1-D and 2-D model of the system and method along with a graphical user interface (GUI) is developed and are used to vary the operation variables to determine the optimum values of operation variables for maximum product yield. The computer-based model displays various results to study various parameters related to the production of Silicon Carbide.

No. of Pages : 62 No. of Claims : 18



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052358 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING COGNITIVE LOAD OF A DRIVER OF A VEHICLE

(51) International classification	:B60W0050140000, A61B0005160000, G06K0009620000, A61B0018120000, B60W0040080000	(71) <b>Name of Applicant :</b> <b>1)Indian Institute of Science</b> Address of Applicant :C V Raman Road, Bangalore -560012, Karnataka, India. Karnataka India <b>2)Faurecia India Private Limited</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PRABHAKAR, Gowdham</b>
(33) Name of priority country	:NA	<b>2)MUKHOPADHYAY, Abhishek</b>
(86) International Application No	:NA	<b>3)BISWAS, Pradipta</b>
Filing Date	:NA	<b>4)DESHMUKH, Sachin</b>
(87) International Publication No	: NA	<b>5)MADAN, Modiksha</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to an aspect systems and methods are disclosed for monitoring cognitive load of a driver of a vehicle. In an embodiment, a system for vehicle for monitoring cognitive load of a driver of the vehicle includes: a set of sensors 104 for sensing one or more ocular features of the driver; a cognitive engine 102 operatively coupled to the set of sensors 104, the cognitive engine 102 comprising a processor 202 coupled to a memory 204, the memory 204 storing instructions executable by the processor 202 to: determine one or more parameters value from the sensed one or more ocular features; and determine one or more deviation states based on processing of the determined one or more parameters value to enable real-time monitoring of cognitive load of the driver.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052359 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SINGLE-ROW SUGARCANE HARVESTER

(51) International classification	:G06K0009000000, B26D0007060000, A01D0034660000, A61B0018080000, E04B0001343000	(71) <b>Name of Applicant :</b> <b>1)NAGA MUNESH BABU BOLEM</b> Address of Applicant :S/o Bolem Ramarao, 8-152, Ramanagaram, Challapalli Mandal, Krishna Dist, Andhra Pradesh - 521126, India. Andhra Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NAGA MUNESH BABU BOLEM</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a crop harvester, which includes a frame suitable for mounting on a front of a mobile structure. The frame includes: a crop lifter located in front of the mobile structure, adapted to straighten the crop and keep them upright; a first cutter located at a first distance from the front of the mobile structure and at a predefined height from the ground such that the first cutter adapted to cut off a top portion of a crop; a base cutter unit provided at the base of the frame and at a second distance from the front of the mobile structure and adapted to cut the crop at the base; and a jaw conveyor assembly adapted to hold the cut crop and transport the crop to a chute. The cut crop is transferred through the chute to a storage area.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052373 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : BRAILLE READER FOR VISUALLY IMPAIRED

(51) International classification :A23K0020147000,  
C12P0019040000,  
B82Y0030000000,  
C22B0003000000,  
C08L0097020000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)Touchtech Labs Pvt Ltd**  
**3)International Institute of Information Technology, Bangalore**

(72)**Name of Inventor :**  
**1)Rajagopal N**  
**2)Paul Gerard D<sup>TM</sup>souza**  
**3)Prof. Sujit Kumar Chakrabarti**

(57) Abstract :

Aspects of the present disclosure are directed to braille readers. According to an aspect, a string of braille characters to be presented on braille cells is determined. Corresponding braille cell is identified for each braille character of the string. The braille cells are refreshed in a sequential manner to present the corresponding braille characters together, where a first braille cell is refreshed at a first time instance to present a corresponding braille character from that first time instance and a second braille cell is refreshed at a second time instance to present a corresponding braille character from that second time instance. According to another aspect, characters of Indian languages are converted into braille characters. It is determined that a character corresponds to an Indian language and an index is calculated by subtracting the base value of the Indian language from the value of the character, and the braille character is identified based on the index.

No. of Pages : 38 No. of Claims : 16

(54) Title of the invention : 2-SIDED PALLET TROLLEY

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) <b>Name of Applicant :</b> <b>1)Ati Motors Inc.</b> Address of Applicant :Suite #217, 691 South, Milpitas Blvd, Milpitas CA 95035, USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rohithkumar Parameshwara Naik</b>
(33) Name of priority country	:NA	<b>2)Saurabh Chandra</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

2-SIDED PALLET TROLLEY ABSTRACT The pallet trolley 100 includes a substantially u-shaped handle 105, a loading portion 110, a pallet 125, and a plurality of rotatable wheels 130-1, 130-2, 130-3, 130-4. U-shaped handle 105 has a horizontal portion 107, a first vertical portion 109-1, and a second vertical portion 109-2. First vertical portion 109-1 and the second vertical portion 109-2 are connected to the first loading portion 110-1 and the second loading portion 110-2 respectively. The substantially u-shaped handle 105 is located offset from either ends of each of the first loading portion 110-1 and the second loading portion 110-2. The pallet trolley 100 further includes a pallet 125 supported by the first loading portion 110-1 and the second loading portion 110-2. The pallet 125 includes a first end 125-1 and a second end 125-2 which are open and accessible when loaded on the first loading portion 110-1 and the second loading portion 110-2. [To be published with FIG. 1]

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052391 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR DYNAMIC GENERATION OF PERSONALIZED VIDEO CONTENT THROUGH A BROWSER EMBEDDED VIDEO PLAYER

(51) International classification	:H04N0021810000, H04N0021840000, H04N0021440000, H04N0021482000, G06F0017240000	(71) <b>Name of Applicant :</b> <b>1)INFOSYS LIMITED</b> Address of Applicant :44, Infosys Avenue, Electronics City, Hosur Road, Bangalore 560100, Karnataka Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PRADEEPRAJ RAJENDRAN</b>
(33) Name of priority country	:NA	<b>2)RESHMA THOMAS</b>
(86) International Application No	:NA	<b>3)SOWBARNIKA SIVASANKARAN</b>
Filing Date	:NA	<b>4)SUNIL GUPTA</b>
(87) International Publication No	: NA	<b>5)GURUPRASAD NELLITHEERTHA VENKATARAJA</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[0001] Disclosed are a system, method and apparatus for dynamically generating a personalized video content through a browser embedded video player. In one aspect, a method for generating a personalized video content at run time, for a user through a browser embedded video player is disclosed. Further, receiving (310), a video configuration metadata file and a template video comprising one or more replaceable placeholders at a client device and extracting (312), user data from at least one user data source. Still further, validating (314), the user based on a set of personalization parameters extracted from the user data source and appending (316), the extracted user data in the video configuration metadata file to generate an updated video configuration metadata file. Further, parsing (318), the updated video configuration metadata file to generate one or more of overlay elements and populating (320), the one or more placeholders with corresponding one or more overlay elements. Still further, automatically arranging (322) the overlay element over the template video based on a set of predetermined rules and presenting (324) the personalized video content to the user. [Figure 1]

No. of Pages : 35 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052392 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD OF CLONING A MULTI-TIERED APPLICATION

(51) International classification	:G06F0009500000, H04L0029060000, G06F0011140000, G06F0016245500, G06N0005020000	(71) <b>Name of Applicant :</b> <b>1)Infosys Limited</b> Address of Applicant :44, Infosys Avenue, Electronics City, Hosur Road, Bangalore 560100, Karnataka Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rohit Mohindru</b>
(33) Name of priority country	:NA	<b>2)Prabhat Kohli</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and system of cloning a multi-tiered application is disclosed and it comprises of validating a received source server configuration data against a received target server configuration data. Further the data at a set of nodes on the target server is restored. The cloning of the multi-tiered application is initiated based on a set of predetermined rules, wherein the cloning comprises a set of sequential actions performed at each of the set of nodes. The method of cloning comprises of generating a set of dynamic configuration files for the set of nodes based on the predefined restore rules and the validation and also generating a set of tokens for the set of nodes to communicate status of refresh. Further the target application is restored based on the set of dynamic configuration files and the set of sequential actions at each of the set of nodes is performed based on the status of set of tokens. [FIG 2A and FIG 2B]



No. of Pages : 32 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052424 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : IMPROVED PROCESS FOR THE PREPARATION OF 5-[(4-BROMO-2-FLUOROPHENYL)AMINO]-4-FLUORO-N-(2-HYDROXYETHOXY)-1-METHYL-1H-BENZIMIDAZOLE-6-CARBOXAMIDE AND ITS INTERMEDIATES THEREOF

(51) International classification :A61K0031444000,  
C07D0209120000,  
C07D0271120000,  
C07D0307580000,  
A23L0027200000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(Dist), Telangana, India - 502307. Telangana India

(72)Name of Inventor :

**1)Srinivasan Thirumalai Rajan**

**2)Sajja Eswaraiah**

**3)Vijayavithal T. Mathad**

**4)Gade Srinivas Reddy**

**5)Gandham Shyam Kiran babu**

(57) Abstract :

Abstract Title of the Invention: Improved Process for the preparation of 5-[(4-bromo-2-fluorophenyl) 5 amino]-4-fluoro-N-(2-hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxamide and its intermediates thereof. The present invention relates to a process for the preparation of 5-[(4-bromo-2-fluoro phenyl)amino]-4-fluoro-N-(2-hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxamide represented by the following structural formula-1, which is referred to as Binimetinib 10 Formula-1 The present invention also relates to a novel intermediate compound which is useful in the preparation of compound of formula-1.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052435 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND APPARATUS FOR ASSISTING USER IN VEHICLE WITH AT LEAST ONE RADIO STATION

(51) International classification	:G01C0021340000, B60R0016037000, H04H0060460000, H04H0060650000, G01C0021360000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany (72) <b>Name of Inventor :</b> <b>1)Ting-Wei Hsu</b> <b>2)Sachin Athanikar</b>
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[00110] ABSTRACT METHOD AND APPARATUS FOR ASSISTING USER IN VEHICLE WITH AT LEAST ONE RADIO STATION Embodiments of present disclosure relates to method and apparatus for assisting a user in a vehicle with at least one radio station. For assisting, at least one preference of the user is determined using preferences of pre-stored clusters of plurality of users. Each of the pre-stored clusters comprises users with similar preferences related with listening to radio stations. Further, at least one radio station from one or more potential radio stations available for the user is selected based on the at least one preference. The at least one radio station is assisted to the user in the vehicle. By the proposed method and apparatus, an enhanced preference learning mechanism is implemented to provide better user experience. Figure 4a GOPINATH ARENUR SHANKARARAJ Agent for the Applicant Of K & S Partners IN/PA-1852 Dated this 17th December, 2019



No. of Pages : 41 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052450 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : NEW HENNA-BASED EXTRACT FOR USE IN DYEING KERATIN FIBERS, ITS PREPARATION METHOD AND COMPOSITIONS CONTAINING IT

(51) International classification	:A23L0033105000, A61K0009060000, A61K0008970000, A61K0036896200, A61K0009700000	(71) <b>Name of Applicant :</b> <b>1)L'OREAL</b> Address of Applicant :14, Rue Royale 75008 PARIS, France France
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PANNAKAL, Steve</b>
(33) Name of priority country	:NA	<b>2)KEDAR, Sandip</b>
(86) International Application No	:NA	<b>3)TEWARI, Amit</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a new extract comprising: 10-50 % by weight of 2,3,4,6-tetrahydroxy acetophenone (THA) relative to the total weight of the extract; and 5-30 % by weight of 2-hydroxy-1,4-naphthaquinone (lawsone) relative to the total weight of the extract; being understood that the weight ratio THA/Lawsone is higher than 1, and the method for preparing it. It also relates to compositions comprising said extract

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201943052360 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : PREPARATION OF THERMALLY STABLE IN-SITU POLYMER DERIVED METAL MATRIX COMPOSITES BY FRICTION STIR PROCESSING

(51) International classification	:B23K0020120000, C22C0032000000, C22C0001100000, B22F0007040000, C04B0035800000	(71) <b>Name of Applicant :</b> <b>1)Indian Institute of Science</b> Address of Applicant :C V Raman Road, Bangalore -560012, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KAILAS, Satish Vasu</b>
(33) Name of priority country	:NA	<b>2)MADHU H C</b>
(86) International Application No	:NA	<b>3)KAR, Amlan</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:	
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a method of preparing a metal matrix composite, the method including the steps of: introducing a pre-ceramic polymer within a metal plate at a groove on the metal plate; dispersing the pre-ceramic polymer into a metal matrix of the metal plate by friction stir process; and pyrolyzing the dispersed pre-ceramic polymer in the metal matrix to a ceramic phase to obtain a metal matrix composite, wherein the pre-ceramic polymer is selected from poly (urea methyl vinyl) silazane and poly (methyl hydro siloxane) for metal plate of copper and aluminium respectively. The resulting metal matrix composite has a fine-grained structure that does not significantly grow with increasing temperature and, hence, mechanical properties of the metal matrix composite is retained at the elevated temperatures.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044022050 A

(19) INDIA

(22) Date of filing of Application :26/05/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : AUDIO SIGNAL PROCESSING METHOD AND DEVICE, TERMINAL AND STORAGE MEDIUM

(51) International classification	:H04R0003000000, G10L0021021600, G10L0021020800, G10L0021027200, H04R0001400000	(71) <b>Name of Applicant :</b> <b>1)Beijing Xiaomi Intelligent Technology Co., Ltd.</b> Address of Applicant :Room 101-103, Floor 1, Unit 2, Building F, No. 66, Zhufang Road, Qinghe, Haidian District, Beijing 100085 China
(31) Priority Document No	:201911302532.X	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)HOU, Haining</b>
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are an audio signal processing method and device, a terminal and a storage medium. The method includes: acquiring audio signals from at least two sound sources respectively through at least two microphones to obtain respective multiple frames of original noise signals of the at least two microphones in a time domain; for each frame in the time domain, acquiring respective frequency-domain estimated signals of the at least two sound sources according to the respective original noise signals; for each sound source, dividing the frequency-domain estimated signal into frequency-domain estimated components which each corresponds to a frequency-domain sub-band and includes multiple frequency point data in a frequency domain, determining a weighting coefficient of each frequency point in the frequency-domain sub-band, and updating a separation matrix of each frequency point according to the weighting coefficient; and obtaining the audio signals based on the updated separation matrices and the original noise signals.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044022428 A

(19) INDIA

(22) Date of filing of Application :28/05/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : CHARGING CIRCUIT AND ELECTRONIC DEVICE

(51) International classification	:H02J0007000000, B60L0003000000, H02J0007040000, H02P0007000000, H01M0002100000	(71) <b>Name of Applicant :</b> <b>1)BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.</b> Address of Applicant :No. 018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District, Beijing 100085, China China
(31) Priority Document No	:201911281051.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)SUN, Changyu</b>
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a charging circuit and an electronic device. The charging circuit includes: an interface module and a plurality of charging management modules connected to the interface module in parallel; a plurality of battery packs, each battery pack including a battery or a plurality of batteries connected in series with each other, the plurality of battery packs being connected in series with the plurality of charging management modules one by one, and the plurality of battery packs being connected in parallel; the plurality of charging management modules are electrically connected with each other to adjust a charging current input to each of the battery packs through signal interaction between the plurality of charging management modules, such that the time period of the maximum charging current for each battery pack is different from the time period of the maximum charging current for the other battery packs.

No. of Pages : 29 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044023344 A

(19) INDIA

(22) Date of filing of Application :03/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : IN-VEHICLE DETECTION OF A CHARGE-ONLY CONNECTION WITH A MOBILE COMPUTING DEVICE

(51) International classification	:H04W0004800000, H04M0001725000, H04M0001600000, H04W0088020000, G06F0001160000	(71) <b>Name of Applicant :</b> <b>1)Google LLC</b> Address of Applicant :1600 Amphitheatre Parkway, Mountain View, CA 94043, USA U.S.A.
(31) Priority Document No	:16/716,702	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)VISWANATHAN, Sriram</b>
(33) Name of priority country	:U.S.A.	<b>2)KRAKOWIAK, Lukasz Pawel</b>
(86) International Application No	:NA	<b>3)FENG, Dan</b>
Filing Date	:NA	<b>4)KOH, Eugene</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT An example method includes identifying, by a mobile computing device, short-range wireless communication signals that are associated with a vehicle computing system; determining, by the mobile computing device, based on the short-range wireless communication signals, that the mobile computing device is proximate to the vehicle computing system; identifying, by the mobile computing device, an electrical connection between the mobile computing device and the vehicle, wherein the electrical connection is provided by an electrical cable that connects a port of the mobile computing device to a port of the vehicle; determining, by the mobile computing device, that the electrical connection is a charge-only connection, wherein the charge-only connection enables an electrical charging or discharging of the mobile computing device but prohibits any data transfer between the mobile computing device and the vehicle computing system; and outputting, by the mobile computing device, a notification indicative of the charge-only connection.

No. of Pages : 50 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044025338 A

(19) INDIA

(22) Date of filing of Application :16/06/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : CARD DATA DISPLAY METHOD AND APPARATUS

(51) International classification	:G06F0016220000, G06F0016242000, G06F0016245700, G06F0016000000, G06Q0020340000	(71) <b>Name of Applicant :</b> <b>1)BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.</b> Address of Applicant :No.018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District, Beijing 100085, China China
(31) Priority Document No	:201911268473.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)DONG, Yongqing</b>
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a card data display method and apparatus, a device and a storage medium, and belongs to the field of computer technologies. The method includes: in response to receiving a search request through a first application, sending (301) the search request to a second application, acquiring (302) card data in response to receiving the search request through the second application, in which the card data includes a first search result corresponding to the search request, and displaying (303) the card data. The present disclosure provides a manner to display the card data based on the search request.

No. of Pages : 48 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044027055 A

(19) INDIA

(22) Date of filing of Application :25/06/2020

(43) Publication Date : 18/06/2021

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(54) Title of the invention : CHARGING CIRCUIT, ELECTRONIC DEVICE, CHARGING METHOD AND CHARGING DEVICE

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(51) International classification	:H02J0007000000, B41J0011000000, H01M0010440000, H01M0002200000, F21V0023040000	(71) <b>Name of Applicant :</b> <b>1)BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.</b> Address of Applicant :No. 018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District, Beijing 100085, China China
(31) Priority Document No	:201911280493.8	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)SUN, Changyu</b>
(33) Name of priority country	:China	<b>2)FAN, Jie</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A charging circuit includes: an interface, a plurality of batteries connected in series, a first charging portion which is connected to the interface and is connected in series with the plurality of batteries, a second charging portion which is connected to the interface and is connected in series with at least one battery, and a first switching circuit which is connected with the second charging portion and is configured to switch a conducting state between the second charging portion and the at least one battery connected in series with the second charging portion, wherein when the first charging portion is in a charging state and the second charging portion is connected with the at least one battery, the charging circuit is switched to an asynchronous charging mode.

No. of Pages : 38 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044037093 A

(19) INDIA

(22) Date of filing of Application :28/08/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : UNIFIED INSTALLER

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) <b>Name of Applicant :</b> <b>1)SAP SE</b> Address of Applicant :Dietmar-Hopp-Allee 16 Walldorf Germany D-69190 Germany
(31) Priority Document No	:16714362	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)RAJIB SAHA</b>
(33) Name of priority country	:India	<b>2)SIVAKANTH JAYARAM</b>
(86) International Application No	:NA	<b>3)SAI HARI PRASAD PABBATHI</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A unified installer reduces system down time attributable to product installation, by eliminating redundant activities. An engine receives a request to install a first software product and a second software product. The engine references respective seed files of the first and second products to confirm their membership in a same family, and also to confirm compatibility between the product versions. The engine first performs a logical merger to create a merged seed file identifying components (e.g., deployment units, prerequisites, properties, features) that are duplicated between the products. Next, the engine performs a second, physical merger of the products to create a unified installer which avoids redundant components. The unified installer is passed by the engine to the installation procedure, which installs the components only once, thereby promoting efficiency and reducing system down time incurred by product installation.

No. of Pages : 28 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044038914 A

(19) INDIA

(22) Date of filing of Application :09/09/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SPARSE MATRIX OPTIMIZATION MECHANISM

(51) International classification	:G06F0017160000, H04N0019460000, H04N0019196000, H04N0019154000, G06F0017140000	(71) <b>Name of Applicant :</b> <b>1)INTEL CORPORATION</b> Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:16/710,081	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)NAMITA SHARMA</b>
(33) Name of priority country	:U.S.A.	<b>2)SUPRATIM PAL</b>
(86) International Application No	:NA	<b>3)BIJU P. SIMON</b>
Filing Date	:NA	<b>4)VIVEK D. TOVINAKERE</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT SPARSE MATRIX OPTIMIZATION MECHANISM** An apparatus to facilitate matrix processing is disclosed. The apparatus comprises a matrix accelerator to receive input matrix data, transform the input matrix data into a plurality of sub-blocks, examine a first block of the sub-blocks to determine whether the first block comprises sparse data, select a first tile size upon a determination that the first block comprises sparse data and generate output matrix data based on the first tile size.

No. of Pages : 140 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044039378 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : INFORMATION PROCESSING DEVICE AND CONTROL PROGRAM FOR INFORMATION PROCESSING DEVICE

(51) International classification	:G06Q0020060000, G07G0001000000, G07G0001140000, G06Q0020200000, G06F0009520000	(71) <b>Name of Applicant :</b> <b>1)TOSHIBA TEC KABUSHIKI KAISHA</b> Address of Applicant :1-11-1, Osaki, Shinagawa-ku, Tokyo 141-8562, Japan Japan
(31) Priority Document No	:2019-227237	(72) <b>Name of Inventor :</b> <b>1)Minoru Mogari</b>
(32) Priority Date	:17/12/2019	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

INFORMATION PROCESSING DEVICE AND CONTROL PROGRAM FOR INFORMATION PROCESSING DEVICE

ABSTRACT An information processing device includes a processor. The processor can acquire a balance of electronic money owned by a customer. The processor can update, every time the customer purchases a commodity, a total amount of price for the one or more purchased commodities. The processor can determine whether the total amount exceeds the balance of the electronic money. The processor can provide a notification in response to determining that the total amount exceeds the balance of the electronic money.  
FIG. 13

No. of Pages : 53 No. of Claims : 10

(54) Title of the invention : APPARATUSES, METHODS, AND SYSTEMS FOR INSTRUCTIONS TO MULTIPLY VALUES OF ZERO

(51) International classification	:G06F0009300000, G06F0009380000, G06F0017210000, G06N0003063000, G06F0012080200	(71) <b>Name of Applicant :</b> <b>1)INTEL CORPORATION</b> Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:16/714,684	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2019	<b>1)MOHAMED ELMALAKI</b>
(33) Name of priority country	:U.S.A.	<b>2)ELMOUSTAPHA OULD-AHMED-VALL</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT APPARATUSES, METHODS, AND SYSTEMS FOR INSTRUCTIONS TO MULTIPLY VALUES OF ZERO**

Systems, methods, and apparatuses relating to instructions to multiply values of zero are described. In one embodiment, a hardware processor includes a decoder to decode a single instruction into a decoded single instruction, the single instruction having a first field that identifies a first number, a second field that identifies a second number, and a third field that indicates a number format for the first number and the second number; and an execution circuit to execute the decoded single instruction to: cause a first comparison of the first number to a zero value in the number format of the first number, cause a second comparison of the second number to a zero value in the number format of the second number, provide as a resultant of the single instruction a value of zero when the second comparison indicates the second number equals the zero value in the number format of the second number, provide as the resultant of the single instruction the value of zero when the first comparison indicates the first number equals the zero value in the number format of the first number, and provide as the resultant of the single instruction a product of a multiplication of the first number and the second number when the first comparison indicates the first number does not equal the zero value in the number format of the first number and the second comparison indicates the second number does not equal the zero value in the number format of the second number.

No. of Pages : 100 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041621 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : INLINE BUFFER FOR IN-MEMORY POST PACKAGE REPAIR (PPR)

(51) International classification	:G06F0012020000, G11C0029000000, G11C0029440000, G06F0011100000, G11C0008200000	(71) <b>Name of Applicant :</b> <b>1)Intel Corporation</b> Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:16/711,243	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)Jongwon LEE</b>
(33) Name of priority country	:U.S.A.	<b>2)Kuljit S. BAINS</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In a memory system, a memory device has a memory array with multiple rows of memory having logical addresses mapped to their physical addresses and at least one spare row not having a logical address mapped to its physical address. A controller detects a failure of one of the multiple rows of memory (failure row) and executes a post package repair (PPR) mode. The controller can be internal to the memory device or external to the memory device. The memory device includes an internal scratchpad to allow transfer of data contents from the failure row to the spare row. The controller can map the logical address of the failure row from the physical address of the failure row to the physical address of the spare row, transfer data contents from the failure row to the internal scratchpad, and transfer the data contents from the internal scratchpad to the spare row.

No. of Pages : 58 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044048408 A

(19) INDIA

(22) Date of filing of Application :05/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEMS AND METHODS TO INCREASE THE COLD START SUCCESS OF AN ENGINE

(51) International classification	:F02D0041000000, F02D0009100000, F02D0009020000, F02M0035100000,	(71) <b>Name of Applicant :</b> <b>1)Cummins Inc.</b> Address of Applicant :500 Jackson Street, Columbus, Indiana 47201 USA U.S.A.
(31) Priority Document No	:2019112873815	(72) <b>Name of Inventor :</b>
(32) Priority Date	:14/12/2019	<b>1)Kai Wang</b>
(33) Name of priority country	:China	<b>2)Long K. Hwang</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A system includes: an intake air throttle valve coupled to an air intake channel of an engine; a grid heater coupled to the air intake channel; and a controller. The controller is structured to: receive a command to start the engine; close the intake throttle valve to prevent or substantially prevent intake air from entering the engine in response to the command; turn the grid heater on to heat the intake air; receive a signal regarding a speed of the engine and determine that the speed of the engine is at or above a predefined threshold speed; and in response to the speed of the engine being at or above the predefined threshold speed, at least partly open the intake air throttle valve to release the heated intake air to the engine for combustion. Fig. 1

No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044050104 A

(19) INDIA

(22) Date of filing of Application :18/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SELECTIVE CROWBAR RESPONSE FOR A POWER CONVERTER TO MITIGATE DEVICE FAILURE

(51) International classification	:H02M0007538700, H01L0027088000, F03D0009250000, H02H0009040000, H02M0001320000	(71) <b>Name of Applicant :</b> <b>1)GENERAL ELECTRIC COMPANY</b> Address of Applicant :1 River Road Schenectady New York United States of America 12345 U.S.A.
(31) Priority Document No	:16/716,930	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)Bacil Shaqo</b>
(33) Name of priority country	:U.S.A.	<b>2)Fernando Arturo Ramirez Sanchez</b>
(86) International Application No	:NA	<b>3)Steven Wade Sutherland</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SELECTIVE CROWBAR RESPONSE FOR A POWER CONVERTER TO MITIGATE DEVICE FAILURE A method for operating a multi-level bridge power converter of an electrical power system includes connecting a plurality of phases of the power converter to a common terminal at a DC side of the power converter so as to effectively equate the plurality of phases at a common electrical potential. The method may also include monitoring, via a controller, a plurality of devices of the power converter for faults. Upon detection of a fault in one or more of the plurality of devices, the method includes activating, via the controller, one or more protection devices of a crowbar of the power converter to prevent additional faults from occurring in remaining devices of the plurality of devices by diverting energy away from the remaining devices of the plurality of devices. Fig 4

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044052633 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : VIRTUAL DATA SCIENTIST WITH PRESCRIPTIVE ANALYTICS

(51) International classification	:G06K0009000000, G06F0016280000, G06F0009455000, G02C0007020000, G06F0009500000	(71) <b>Name of Applicant :</b> <b>1)Accenture Global Solutions Limited</b> Address of Applicant :3 Grand Canal Plaza, Grand Canal Street Upper, Dublin, 4 Ireland U.S.A.
(31) Priority Document No	:16/717,017	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)JEYACHANDRAN, Senthilkumar</b>
(33) Name of priority country	:U.S.A.	<b>2)NAGARAJAN, Rajesh</b>
(86) International Application No	:NA	<b>3)VIJAYARAGHAVAN, Koushik M.</b>
Filing Date	:NA	<b>4)DULLES, Sheeba</b>
(87) International Publication No	: NA	<b>5)SRIDEVI, Jayashri</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MANICAN GANESHBAPU, Avenash</b>
Filing Date	:NA	<b>7)PRASAD, Rajendra T.</b>
(62) Divisional to Application Number	:NA	<b>8)GHOSH, Bhaskar</b>
Filing Date	:NA	<b>9)SEKHAR, Mohan</b>
		<b>10)KULKARNI, Aditi</b>
		<b>11)HIGGINS, Luke</b>

(57) Abstract :

Please see attached specification

No. of Pages : 78 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044053519 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : IMAGE PROCESSING APPARATUS AND IMAGE CAPTURING APPARATUS

(51) International classification	:H04N0005232000, H04N0005770000, H04N0005781000, H04N0005765000, G11B0020120000	(71) <b>Name of Applicant :</b> <b>1)CANON KABUSHIKI KAISHA</b> Address of Applicant :30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan Japan
(31) Priority Document No	:2019-224225	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1)NAKAJIMA, Michinori</b>
(33) Name of priority country	:Japan	<b>2)UEMURA, Hidetaka</b>
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The image processing apparatus generates recording image data by image capturing through an image capturing optical system, and adds information to the recording image data. When the image capturing optical system is an anamorphic optical system, the apparatus adds, to the recording image data, information on a compression rate of the anamorphic optical system, and information indicating a center position of the anamorphic optical system in each of frame images constituting the recording image data.  
[FIGURE 1]

No. of Pages : 37 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044053995 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : APPARATUS AND PROCESS FOR PRODUCING LIGHT OLEFINS BY CATALYTIC AND STEAM CRACKING

(51) International classification	:C10G0009360000, C07C0004040000, C07C0001200000, C07C0011040000, C07C0011060000	(71) <b>Name of Applicant :</b> <b>1)IFP Energies nouvelles</b> Address of Applicant :1 et 4, avenue de Bois-Prau, F-92852 Rueil-Malmaison Cedex, France France
(31) Priority Document No	:19/14.509	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)THINON, Olivier</b>
(33) Name of priority country	:France	<b>2)PIERRON, Anne Claire</b>
(86) International Application No	:PCT//	<b>3)SANTOS-MOREAU, Vania</b>
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an NCC process and an apparatus for producing light olefins and aromatics, wherein the fraction comprising ethane and/or propane (12) from the cracking effluent is sent at least partly into a steam cracking furnace (19), fed with steam (20), to produce a steam cracking effluent (21) comprising ethylene and/or propylene. Figure 1

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044054005 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : APPARATUS AND PROCESS FOR PRODUCING LIGHT OLEFINS AND AROMATICS BY CATALYTIC CRACKING

(51) International classification	:C10G0063040000, C10G0069020000, B01D0011040000, C10G0069100000, H04W0012040000	(71) <b>Name of Applicant :</b> <b>1)IFP Energies nouvelles</b> Address of Applicant :1 et 4, avenue de Bois-Prau, F-92852 Rueil-Malmaison Cedex, France France
(31) Priority Document No	:19/14.507	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)THINON, Olivier</b>
(33) Name of priority country	:France	<b>2)PIERRON, Anne Claire</b>
(86) International Application No	:NA	<b>3)SANTOS-MOREAU, Vania</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an NCC process and an apparatus for producing light olefins and aromatics, wherein the C5+ fraction (16) of the cracking effluent is separated into a C5 fraction (25) recycled into the NCC reactor (4) and a C6+ fraction (26), and wherein the C6+ fraction (26) is sent into an aromatics extraction unit (30) to produce an aromatics-enriched fraction (31) and a low-aromatics fraction (32). [Figure 1]

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044054212 A

(19) INDIA

(22) Date of filing of Application :14/12/2020

(43) Publication Date : 18/06/2021

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(54) Title of the invention : TRIESTERS OF CYCLOHEXANETRIPROPIONIC ACID

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(51) International classification	:A61K0031216000, B01J0037030000, A61Q0019000000, C08J0009000000, C08K0005103000	(71) <b>Name of Applicant :</b> <b>1)EVONIK OPERATIONS GMBH</b> Address of Applicant :Rellinghauser Strasse 1-11, 45128 Essen, Germany Germany
(31) Priority Document No	:19216888.8	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)SCHULZ, Imke</b>
(33) Name of priority country	:EPO	<b>2)GRASS, Michael</b>
(86) International Application No	:NA	<b>3)FRANKE, Robert</b>
Filing Date	:NA	<b>4)KRAFT, Johannes</b>
(87) International Publication No	: NA	<b>5)BELLER, Matthias</b>
(61) Patent of Addition to Application Number	:NA	<b>6)JACKSTELL, Ralf</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

The invention relates to triesters of cyclohexanetripropionic acid, preparation thereof and use thereof as plasticizers for polymers.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044054453 A

(19) INDIA

(22) Date of filing of Application :15/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : CATALYST FOR CONVERTING ALKYLAROMATIC HYDROCARBON AND PREPARATION METHOD THEREOF

(51) International classification	:C07C0006120000, C07C0005270000, B01J0029440000, C07C0015080000, B01J0029480000	(71) <b>Name of Applicant :</b> <b>1)SK INNOVATION CO., LTD.</b> Address of Applicant :26, Jong-ro, Jongno-gu, Seoul 03188, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0168765	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2019	<b>1)LEE, Sang Il</b>
(33) Name of priority country	:Republic of Korea	<b>2)LEE, Ji Hoon</b>
(86) International Application No	:PCT//	<b>3)CHEON, Young Eun</b>
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a bifunctional catalyst and a preparation method therefor, the bifunctional catalyst being suitable to produce high-value aromatic hydrocarbons by subjecting alkylaromatic hydrocarbons to a disproportionation/transalkylation/dealkylation reaction while suppressing aromatic loss or subjecting C8 aromatic hydrocarbons to an isomerization reaction while suppressing xylene loss.

No. of Pages : 72 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044054459 A

(19) INDIA

(22) Date of filing of Application :15/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : WARP BEAM ASSEMBLY

(51) International classification	:D04B0027160000, F16H0057080000, D04B0027220000, D04B0027000000, D04B0027200000	(71) <b>Name of Applicant :</b> <b>1)KARL MAYER STOLL R&amp;D GmbH</b> Address of Applicant :Industriestrasse 1, 63179 Obertshausen, Germany Germany
(31) Priority Document No	:19 216 881.3	(72) <b>Name of Inventor :</b> <b>1)EXNER, Franz</b>
(32) Priority Date	:17/12/2019	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A warp knitting machine comprises a warp beam (2) with a pin (1), wherein the warp beam (2) is mounted to the pin (1) by means of a bearing assembly arranged on the warp knitting machine, and the warp beam (2) is driven by a torque transmission assembly on the pin (1). One would like to manage the operation of a warp beam of a warp knitting machine in a cost-efficient manner. For this purpose, the torque transmission assembly and the bearing assembly are arranged separately from one another. Figure 2

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047036913 A

(19) INDIA

(22) Date of filing of Application :27/08/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : CATIONIC ELECTRODEPOSITION MATERIAL COMPOSITION AND METHOD FOR FORMING CURED ELECTRODEPOSITION COATING

(51) International classification :B05D 1/18, C09D 5/02, C09D 5/44, C09D 201/00, C09D 7/65

(31) Priority Document No :2018-236635

(32) Priority Date :18/12/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/048761  
Filing Date :12/12/2019

(87) International Publication No :WO 2020/129817

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :2-14-1, Shodai-Ohtani, Hirakata-shi, Osaka 573-1153 Japan

(72)Name of Inventor :  
**1)KOTANI, Masayuki**  
**2)HASEGAWA, Yuko**  
**3)FURUYA, Yasuyuki**  
**4)OBATA, Keigo**  
**5)TSUTSUI, Keisuke**  
**6)ARAI, Hiroki**  
**7)YAMAZAKI, Hiroyoshi**

(57) Abstract :

The present invention provides a cationic electrodeposition material composition having a balance between good cissing resistance and good coating appearance. The cationic electrodeposition material composition contains a silicone compound (A) having an SP value of greater than 10.5 and no more than 15.0, and a coating-forming resin (B), and includes 0.01 parts by mass to 4.5 parts by mass of the silicone compound (A) per 100 parts by mass of the resin solid content of the coating-forming resin (B). The silicone compound (A) is, for example, at least one compound selected from the group consisting of polyether-modified silicone compounds (A-1), polyester-modified silicone compounds (A-2), and polyacrylic-modified silicone compounds (A-3).

No. of Pages : 43 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047046010 A

(19) INDIA

(22) Date of filing of Application :22/10/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : DETERMINING ACTION SELECTION POLICIES OF AN EXECUTION DEVICE

(51) International classification	:G06N0003000000, G06N0007000000, H04W0048180000, A63F0013400000, G06N0003040000	(71) <b>Name of Applicant :</b> <b>1)ALIPAY (HANGZHOU) INFORMATION TECHNOLOGY CO., LTD.</b> Address of Applicant :No. 556 Xixi Road, 8th Floor, Section B, Suite 801-11, West Lake District Hangzhou, Zhejiang 310000 China
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)LI, Hui</b>
(33) Name of priority country	:NA	<b>2)SONG, Le</b>
(86) International Application No	:PCT/CN2019/124945	
Filing Date	:12/12/2019	
(87) International Publication No	:WO 2020/098823	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for generating an action selection policy for completing a task in an environment. The method includes identifying multiple possible actions in a state, wherein the state corresponds to a vector of information sets; identifying a vector of current action selection policies in the state, wherein each current action selection policy in the vector of current action selection policies corresponds to an information set in the vector of information sets; computing a sampling policy based on the vector of current action selection policies in the state; sampling an action among the multiple possible actions in the state according to a sampling probability of the action specified in the sampling policy; and updating each current action selection policy of the execution device in the state based on the action.

No. of Pages : 69 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047046011 A

(19) INDIA

(22) Date of filing of Application :22/10/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : DETERMINING ACTION SELECTION POLICIES OF EXECUTION DEVICE

(51) International classification	:G06N0003000000, G06Q0030020000, G06F0021570000, G06N0007000000, G06Q0010060000	(71) <b>Name of Applicant :</b> <b>1)ALIPAY (HANGZHOU) INFORMATION TECHNOLOGY CO., LTD.</b> Address of Applicant :No. 556 Xixi Road, 8th Floor, Section B, Suite 801-11, West Lake District Hangzhou, Zhejiang 310000 China
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)LI, Hui</b>
(33) Name of priority country	:NA	<b>2)SONG, Le</b>
(86) International Application No	:PCT/CN2019/124942	
Filing Date	:12/12/2019	
(87) International Publication No	:WO 2020/098822	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for generating an action selection policy of an execution device for completing a task in an environment. The method includes computing a hybrid sampling policy at a state of the execution device based on a sampling policy and an exploration policy, wherein the exploration policy specifies a respective exploration probability corresponding to each of multiple possible actions in the state, wherein the exploration probability is negatively correlated with a number of times that the each of the multiple possible actions in the state has been sampled; sampling an action among the multiple possible actions in the state according to a sampling probability of the action specified in the hybrid sampling policy; and updating an action selection policy in the state by performing Monte Carlo counterfactual regret minimization based on the action.

No. of Pages : 69 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047046934 A

(19) INDIA

(22) Date of filing of Application :28/10/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : DETERMINING ACTION SELECTION POLICIES OF EXECUTION DEVICE

(51) International classification	:G06N0003000000, G06N0020000000, G06Q0030020000, G10L0015140000, H04W0004210000	(71) <b>Name of Applicant :</b> <b>1)ALIPAY (HANGZHOU) INFORMATION TECHNOLOGY CO., LTD.</b> Address of Applicant :No. 556 Xixi Road, 8th Floor, Section B Suite 801-11, West Lake District Hangzhou, Zhejiang 310000 China
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)LI, Hui</b>
(33) Name of priority country	:NA	<b>2)SONG, Le</b>
(86) International Application No	:PCT/CN2019/124933	
Filing Date	:12/12/2019	
(87) International Publication No	:WO 2020/098821	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for generating an action selection policy of an execution device for completing a task in an environment. The method includes, in a current iteration, computing a counterfactual value (CFV) of the execution device in a terminal state based on a payoff of the execution device and a reach probability of other devices reaching the terminal state; computing a baseline-corrected CFV of the execution device in the terminal state; for each non-terminal state having child states, computing a CFV of the execution device in the non-terminal state based on a weighted sum of the baseline-corrected CFVs of the execution device in the child states; computing a baseline-corrected CFV and a CFV baseline of the execution device in the non-terminal state; and determining an action selection policy in the non-terminal state for the next iteration.

No. of Pages : 69 No. of Claims : 9

(54) Title of the invention : ILLUMINATING LIGHTING FIXTURE

(51) International classification	:F21V0005000000, F21Y0115100000, F21Y0105100000, F21V0023060000, F21V0005040000
(31) Priority Document No	:201822118050.6
(32) Priority Date	:17/12/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/126053
Filing Date	:17/12/2019
(87) International Publication No	:WO 2020/125641
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
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**2)SUZHOU OPPL LIGHTING CO., LTD.**

(72)Name of Inventor :  
**1)WANG, Guoping**  
**2)WEI, Qingjun**  
**3)ZHU, Zenglong**  
**4)YU, Dongjing**

(57) Abstract :

An illuminating lighting fixture, comprising a shell (100), a light source assembly (200), a lens cover (300) and an anti-deformation assembly (400), wherein the shell (100) and the lens cover (300) are connected to form a mounting space; the light source assembly (200) is mounted in the mounting space and comprises a light source plate (210); a connecting through hole (211) is formed on the light source plate (210); the lens cover (300) comprises a cover body (310) and a lens (320) provided on the cover body (310); one part of the anti-deformation assembly (400) is located in the connecting through hole (211), and the anti-deformation assembly (400) is connected to the lens (320) so as to apply acting force to the lens (320) to enable the lens (320) to attach to the light source plate (210). The anti-deformation assembly (400) is connected to the lens (320), so as to apply to the lens (320) an acting force for attaching the lens (320) to the light source plate (210). Therefore, when the light source plate (210) or the lens (320) deforms when being heated, due to the effect of the anti-deformation assembly (400), the position between the lens (320) and the light source plate (210) is not prone to change, and deformation of the light source plate (210) and the lens (320) may thus be restricted. The relative positional relationship among a light-emitting unit, the lens (320) and other components is more stable, thereby improving the light-emitting effect of the illuminating lighting fixture.

No. of Pages : 11 No. of Claims : 13

(54) Title of the invention : EVAPORATOR SUPPORT STRUCTURE AND AIR CONDITIONER HAVING EVAPORATOR SUPPORT STRUCTURE

(51) International classification :F25B0039020000,  
B60C0017040000,  
B60C0017060000,  
B01L0009000000,  
F24S0025160000

(31) Priority Document No :201822144168.6

(32) Priority Date :20/12/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/125144  
Filing Date :13/12/2019

(87) International Publication No :WO 2020/125549

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

**1)HUANG, Jiabo**

**2)SHANG, Bin**

**3)HUO, Biao**

**4)WANG, Jiejie**

**5)ZENG, Youjian**

**6)WANG, Qianguang**

**7)HE, Jiawei**

**8)XU, Chaokui**

(57) Abstract :

An evaporator (100) support structure and an air conditioner having the evaporator (100) support structure. The evaporator (100) support structure comprises a base (1) used to mount an evaporator (100) and a support portion (2) provided on the base (1) and used to support the evaporator (100). The support portion (2) comprises a first support body (21) and a second support body (22) arranged to form an angle. In a longitudinal cross-section, the support portion (2) has a V-shape opening towards the exterior of the base (1). The first support body (21) is located above the second support body (22). A top surface of the first support body (21) forms a flat support surface (211) used to support the evaporator (100). The flat support surface (211) used to support the bottom of the evaporator (100) is provided on one side of the first support body (21) facing the interior of the base (1), such that a support area between the first support body (21) and the bottom of the evaporator (100) is increased, and surface-to-surface supporting is achieved, thereby improving supporting stability.

No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147021270 A

(19) INDIA

(22) Date of filing of Application :11/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : USER EQUIPMENT LIMITED-SERVICE MODE

(51) International classification	:H04W0072040000, H04W0052020000, H04W0076140000, H04L0005000000, H04W0076100000	(71) <b>Name of Applicant :</b> <b>1)GOOGLE LLC</b> Address of Applicant :1600 Amphitheatre Parkway Mountain View, California 94043 U.S.A.
(31) Priority Document No	:62/786197	(72) <b>Name of Inventor :</b>
(32) Priority Date	:28/12/2018	<b>1)WANG, Jibing</b>
(33) Name of priority country	:U.S.A.	<b>2)STAUFFER, Erik Richard</b>
(86) International Application No	:PCT/US2019/066172	
Filing Date	:13/12/2019	
(87) International Publication No	:WO 2020/139583	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure describes systems and methods directed to a user equipment (UE) limited-service mode for wireless communications. For a user equipment (UE) that is wirelessly communicating with a base station, a service-mode manager determines (705) that a thermal, power, or battery condition local to the UE violates a threshold and causes the UE to transmit (710) a message that indicates a request by the UE to enter a UE limited- service mode. The base station allocates (715) a set of resources of the air interface to be used for wireless communications upon the UE entering the UE limited-service mode. The base station then transmits (720) a message to the UE, directing the UE to enter the UE limited-service mode and wirelessly communicate with the base station using the allocated set of resources of the air interface.

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147021439 A

(19) INDIA

(22) Date of filing of Application :12/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : AVOIDING EPIGENETIC SILENCING OF EXOGENOUS NUCLEIC ACID IN ALGAE

(51) International classification	:C12N0009100000, C12Q0001688600, C12N0009220000, C12N0015110000, G06Q0020360000	(71) <b>Name of Applicant :</b> <b>1)SYNTHETIC GENOMICS, INC.</b> Address of Applicant :11149 North Torrey Pines Road, Suit 100 La Jolla, CA 92037 U.S.A.
(31) Priority Document No	:62/779364	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/12/2018	<b>1)PAIS, June, Elizabeth</b>
(33) Name of priority country	:U.S.A.	<b>2)SPREAFICO, Roberto</b>
(86) International Application No	:PCT/US2019/065879	
Filing Date	:12/12/2019	
(87) International Publication No	:WO 2020/123755	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application relates to the identification of novel DNA methyltransferases including CHG methylation in algal species. The present application relates to algal mutants permitting the expression of exogenous genes by alleviating the epigenetic mechanisms of CHG and CHH methylation of exogenous DNA and mono- and tri -methylation of lysine 9 of histone 3 (H3K9). This is achieved by mutating or attenuating the methyltransferase (MTase) genes in algae. The present application also relates to methods for efficiently expressing exogenous genes in algal species.

No. of Pages : 32 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147021667 A

(19) INDIA

(22) Date of filing of Application :13/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : EXON SKIPPING OLIGOMER CONJUGATES FOR MUSCULAR DYSTROPHY

(51) International classification :C12N0015113000,  
C07D0207160000,  
A61K0031160000,  
A61K0031167000,  
C07F0009655800

(31) Priority Document No :62/779028  
(32) Priority Date :13/12/2018  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2019/065581  
Filing Date :11/12/2019  
(87) International Publication No :WO 2020/123574  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)SCHNELL, Frederick, Joseph**  
**2)CAI, Baozhong**  
**3)DESAI, Ankur**  
**4)BESTWICK, Richard, K.**

(57) Abstract :

Antisense oligomers complementary to a selected target site in the human dystrophin gene to induce exon 50 skipping are described. In various aspects, antisense oligomers are described according to Formula (I): or a pharmaceutically acceptable salt thereof, wherein T, Nu, n, and R100 are defined herein.

No. of Pages : 122 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022049 A

(19) INDIA

(22) Date of filing of Application :17/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : WORK VEHICLE

(51) International classification :B62D0006000000,  
B62D0005000000,  
B62D0049060000,  
B23K0026082000,  
B62D0015020000

(31) Priority Document No :2018-238894  
(32) Priority Date :20/12/2018  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2019/048371  
Filing Date :11/12/2019  
(87) International Publication No :WO 2020/129760  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Address of Applicant :2-47, Shikitsuhigashi 1-chome,  
Naniwa-ku, Osaka-shi, Osaka 5568601 Japan  
(72)**Name of Inventor :**  
**1)SUGA Hiroki**

(57) Abstract :

This work vehicle is provided with a steering wheel 3 that: has a plurality of spokes 31 and a ring member 32 connected to the spokes 31; is disposed ahead of a driver seat and to the rearward of a display unit 40; and forms openings 33 between the spokes 31 and the ring member 32. The work vehicle is further provided with a steering mechanism 9 for changing the steered angle of steered wheels 11 on the basis of the wheel angle which is a rotational angle of the steering wheel 3 about the wheel rotational axis, and an adjustment unit 93 that adjusts the relationship between the wheel angle and the steered angle.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : IMAGE GENERATING APPARATUS AND METHOD THEREFOR

(51) International classification	:G06T0007730000, H04N0013000000, H04N0013122000, G06T0007593000, H04N0013261000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:18202085.9	(72) <b>Name of Inventor :</b> <b>1)VAREKAMP, Christiaan</b>
(32) Priority Date	:23/10/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/078782	
Filing Date	:23/10/2019	
(87) International Publication No	:WO 2020/083950	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus comprises a determiner (305) which determines a first-eye and a second eye view pose. A receiver (301) receives a reference first-eye image with associated depth values and a reference second-eye image with associated depth values, the reference first-eye image being for a first-eye reference pose and the reference second-eye image being for a second-eye reference pose. A depth processor (311) determines a reference depth value, and modifiers (307) generate modified depth values by reducing a difference between the received depth values and the reference depth value by an amount that depends on a difference between the second or first-eye view pose and the second or first-eye reference pose. A synthesizer (303) synthesizes an output first-eye image for the first-eye view pose by view shifting the reference first-eye image and an output second-eye image for the second-eye view pose by view shifting the reference second-eye image based on the modified depth values. The terms first and second may be replaced by left and right, respectively or vice versa. E.g. the terms first-eye view pose, second-eye view pose, reference first-eye image, and reference second-eye image may be replaced by left-eye view pose, right-eye view pose, reference left-eye image, and reference right-eye image, respectively.

No. of Pages : 29 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022337 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : GENERATION OF RF PULSES FOR MRI APPLICATIONS

(51) International classification	:H02J0007000000, H02H0007160000, G01R0033360000, H02J0015000000, H02J0003180000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:18202021.4	(72) <b>Name of Inventor :</b> <b>1)SIMONS, Jan</b>
(32) Priority Date	:23/10/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/078480	
Filing Date	:21/10/2019	
(87) International Publication No	:WO 2020/083802	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to the generation of RF pulses for MRI applications. According to the invention, a RF transmitter for a MRI system (1) is provided which comprises a RF amplifier (9) for generating RF pulses and for forwarding these RF pulses to a RF transmit coil (5) of the MRI system (1), a capacitor bank (10) coupled to the RF amplifier (9), for storing electric energy and for providing the RF amplifier (9) with a current for generating the RF pulses, a mains power supply (11) coupled to the capacitor bank (10), for generating a charging current for charging the capacitor bank (10) with electric energy, and a power supply control unit (12) coupled to the mains power supply (11), for controlling the generation of the charging current for the capacitor bank (10), wherein the power supply control unit (12) is adapted for receiving an indication signal indicating the actual and/or the upcoming current drawn from the capacitor bank (10) and for controlling the generation of the charging current for the capacitor bank (10) on the basis of the indication signal. In this way, the generation of RF pulses for MRI applications becomes more efficient making it possible to use smaller capacitor bank values at the same performance level.

No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022338 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONTAINER BUILDER FOR INDIVIDUALIZED NETWORK SERVICES

(51) International classification :G06F0021620000,  
G03G0015080000,  
G06F0008610000,  
B65G0001137000,  
G16H0020100000

(31) Priority Document No :18201688.1

(32) Priority Date :22/10/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/078694  
Filing Date :22/10/2019

(87) International Publication No :WO 2020/083891

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :High Tech Campus 52 5656 AG  
Eindhoven Netherlands

(72)Name of Inventor :  
**1)NETSCH, Thomas**  
**2)AMTHOR, Thomas, Erik**  
**3)BORGERT, Jrn**  
**4)HELLE, Michael, G<sup>1</sup>anter**

(57) Abstract :

Some embodiments are directed to a container builder (110) for building a container image for providing an individualized network service based on sensitive data (122) in a database (121). The container builder (110) retrieves the sensitive data (122) from the database (121), builds the container image (140), and provides it for deployment to a cloud service provider (111). The container image (140) comprises the sensitive data (122) and instructions that, when deployed as a container, cause the container to provide the individualized network service based on the sensitive data (122) comprised in the container image (140).

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022339 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DECISION SUPPORT SOFTWARE SYSTEM FOR SLEEP DISORDER IDENTIFICATION

(51) International classification :A61B0005000000,  
H04L0029060000,  
G06F0016957000,  
G06F0016000000,  
H04N0021442000

(31) Priority Document No :2018904007

(32) Priority Date :22/10/2018

(33) Name of priority country :Australia

(86) International Application No :PCT/AU2019/051147  
Filing Date :22/10/2019

(87) International Publication No :WO 2020/082115

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :Sturt Road Belford Park, South  
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**2)KONINKLIJKE PHILIPS N.V.**

(72)Name of Inventor :  
**1)**

(57) Abstract :

A method for cluster-based recommendation generation regarding sleep disorders. A server system transmitting query program code to a client device, wherein the query program code is executable by the client device to transmit one or more response objects encoding a response and further responses to the server system. The server system receiving the one or more response objects from the client device and determining the response and further responses encoded in the response objects. A clustering module of the server system identifying one or more clusters of sleep disorder user data that most closely relate to the determined responses. A recommendation module of the server system identifying a sleep disorder based on the determined responses and clusters. The recommendation module generating one or more recommendations based on the identified sleep disorder, the determined responses and the identified clusters. The server system encoding the generated one or more recommendations in a recommendations object and making it accessible to the client device.

No. of Pages : 51 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022340 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MEDICAL IMAGE DEVICE AND OPERATING METHOD

(51) International classification	:A61B0006000000, A61B0006030000, G06T0007000000, G16H0040630000, A61B0005000000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:62/749152	(72) <b>Name of Inventor :</b>
(32) Priority Date	:23/10/2018	<b>1)SAALBACH, Axel</b>
(33) Name of priority country	:U.S.A.	<b>2)BROSCH, Tom</b>
(86) International Application No	:PCT/EP2019/078413	<b>3)HARDER, Tim, Philipp</b>
Filing Date	:18/10/2019	<b>4)DESHPANDE, Hrishikesh, Narayanrao</b>
(87) International Publication No	:WO 2020/083783	<b>5)SCHWAB, Evan</b>
(61) Patent of Addition to Application Number	:NA	<b>6)BALTRUSCHAT, Ivo, Matteo</b>
Filing Date	:NA	<b>7)WIEMKER, Rafael</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This application proposes an improved medical imaging device enabling a timely communication of critical findings. The medical imaging device comprises an image acquisition unit, adapted to acquire image data of a subject to be imaged. The medical imaging device further comprises a local data processing device having an artificial-intelligence-module, AI-module, adapted to automatically detect a finding on basis of the acquired image data and to determine a priority status of the detected finding. Further, the medical imaging device comprises a notification module, adapted to provide, if the determined priority status reaches or exceeds a notification threshold, a notification data containing the detected finding. The application further proposes a medical imaging system, a method of operating a medical imaging device, a computer program element and a computer-readable medium having stored the computer program element.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022365 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MARKING PRECURSOR WITH SQUARIC ACID COUPLING

(51) International classification	:C07B0059000000, A61K0051040000, C07K0001130000, C07K0007060000, A61K0051080000	(71) <b>Name of Applicant :</b> <b>1)SCV-SPEZIAL CHEMIKALIEN VERTRIEB GMBH</b> Address of Applicant :Kurt-Schumacher-Str. 22 55270 Zornheim Germany
(31) Priority Document No	:10 2018 126 558.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/10/2018	<b>1)R-SCH, Frank</b>
(33) Name of priority country	:Germany	<b>2)GREIFENSTEIN, Lukas</b>
(86) International Application No	:PCT/EP2019/078614	<b>3)ENGELBOGEN, Niels</b>
Filing Date	:21/10/2019	<b>4)BERGMANN, Ralf</b>
(87) International Publication No	:WO 2020/083853	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a marking precursor comprising a chelator or fluorination group for radiolabelling with 44Sc, 47Sc, 55Co, 62Cu, 64Cu, 67Cu, 66Ga, 67Ga, 68Ga, 89Zr, 86Y, 90Y, 90Nb, 99mTc, 111In, 135Sm, 140Pr, 159Gd, 149Tb, 160Tb, 161Tb, 165Er, 166Dy, 166Ho, 175Yb, 177Lu, 186Re, 188Re, 213Bi and 225Ac or with 18F, 131I or 211At, and one or two biological targeting vectors which are coupled to the chelator or fluorinating group via one or more squaric acid groups. Formula (I).

No. of Pages : 34 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022366 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

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(54) Title of the invention : METHOD AND APPARATUS FOR MELT-SPINNING FILAMENTS

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(51) International classification	:D01D0005088000, B29C0048920000, B29K0067000000, D01D0013020000, B29K0105260000	(71) <b>Name of Applicant :</b> <b>1)BB ENGINEERING GMBH</b> Address of Applicant :Leverkuser Str. 65 42897 Remscheid Germany
(31) Priority Document No	:10 2018 009 171.7	(72) <b>Name of Inventor :</b> <b>1)SCH,,FER, Klaus</b>
(32) Priority Date	:22/11/2018	
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2019/081758	
Filing Date	:19/11/2019	
(87) International Publication No	:WO 2020/104434	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

The invention relates to a method and an apparatus for melt spinning filaments from a polyester. According to the invention, a plurality of filaments is extruded from a melt flow by means of a spinning device. The melt flow is produced from a PET melt of a melt producing device and from a recycled PET melt of a recycling plant.

No. of Pages : 15 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022367 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NETWORK NODE, USER EQUIPMENT, AND METHODS IN A WIRELESS COMMUNICATIONS NETWORK

(51) International classification	:H04W0024100000, H04L0005000000, H04W0036000000, H04W0016280000, G01S0005000000	(71) <b>Name of Applicant :</b> <b>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)</b> Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GONZALEZ ESCUDERO, Alberto</b>
(33) Name of priority country	:NA	<b>2)AHLSTR-M, Tobias</b>
(86) International Application No	:PCT/SE2018/051083	
Filing Date	:23/10/2018	
(87) International Publication No	:WO 2020/085961	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method performed by a network node for locating a User Equipment (UE) is provided. The network node, the at least one portable network node and UE operate in a wireless communication network. The network node configures (204) the at least one portable network node to broadcast reference signals. The broadcasted reference signals trigger the UE to subsequently measure and report the quality of the respective reference signals to the network node. The network node then receives (205) subsequent measurement reports from the UE. Each measurement report comprises a current quality value of the reference signals sent by the respective at least one portable network node. The network node manages the respective at least one portable network node to approach the position of the UE by: Meanwhile analyzing the subsequent measurement reports, commanding (206) each of the at least one portable network node to move in a direction that is decided based on the analysis of its corresponding subsequent measurement reports one by one upon receiving them. The moving direction is to be performed such that quality values of its corresponding reference signals in subsequent measurement reports are increasing.

No. of Pages : 36 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022368 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LIQUID-SOLID AXIAL MOVING BED REACTION AND REGENERATION DEVICE, AND SOLID ACID ALKYLATION METHOD

(51) International classification :B01J0008120000,  
B01J0008040000,  
B01J0029400000,  
C10G0035120000,  
B01J0008080000

(31) Priority Document No :201811229732.2

(32) Priority Date :22/10/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/112517  
Filing Date :22/10/2019

(87) International Publication No :WO 2020/083279

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

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**4)ZHU, Zhenxing**  
**5)TANG, Xiaojin**  
**6)LIU, Zheng**  
**7)LI, Yongxiang**  
**8)ZHAO, Zhihai**

(57) Abstract :

A liquid-solid axial moving bed reaction and regeneration device, and a solid acid alkylation method using the liquid-solid axial moving bed reaction and regeneration device. The liquid-solid axial moving bed reaction and regeneration device comprises: an axial moving bed reactor (1), a spent catalyst receiver (5), a catalyst regenerator (4), and a regenerant receiver (6) which are sequentially connected; a catalyst outlet of the regenerant receiver (6) is communicated with a catalyst inlet of the axial moving bed reactor (1); the axial moving bed reactor (1) is provided with at least two catalyst bed layers (3) which are provided vertically, and the axial moving bed reactor (1) is provided with a feeding port (2) above each catalyst bed layer (3); a catalyst conveying pipe (16) is provided between two adjacent catalyst bed layers (3), so that a catalyst can move from top to bottom in the axial moving bed reactor (1); a separating member (10) is provided between two adjacent catalyst bed layers (3); an inside space of the separating member (10) is communicated with the catalyst conveying pipe (16), and the separating member (10) is used for separation of materials and the catalyst after reaction of the catalyst bed layers at the upstream; the catalyst separated by the separating member (10) moves downward by means of the catalyst conveying pipe (16).

No. of Pages : 59 No. of Claims : 24



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022369 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING AND DIAGNOSING DISEASES AND USE OF SAME

(51) International classification :G01K0011000000,  
A61B0005010000,  
G01K0015000000,  
G01W0001000000,  
G01D0021020000

(31) Priority Document No :62/748927  
(32) Priority Date :22/10/2018  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2019/057445  
Filing Date :22/10/2019  
(87) International Publication No :WO 2020/086586  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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California 90501 U.S.A.  
(72)**Name of Inventor :**  
**1)SHU, Julius Chin-Hong**  
**2)ALLISON, Robert C.**

(57) Abstract :

A system and method for detecting disease comprising a device for detecting angiogenesis and an electronic device. The device comprises two microwave scanners, at least one multiple channel radiometer, a microwave switch network, a controller, a data transmission device, and a power source. Each microwave scanner comprises a cup; a flexible printed circuit board, each circuit board comprising: a plurality of antenna modules coupled thereto, each antenna module comprising: an antenna, a multi-throw microwave switch, and a temperature sensor. The antenna is configured to receive microwaves thermal radiation from patient tissue and the radiometer is configured to measure microwaves thermal radiation emitted from patient tissue. The data transmission device is configured to wirelessly transmit measurement data collected by the controller from the radiometer and the temperature sensors to an electronic device and the electronic device is configured to transmit the measurement data to a cloud data storage.

No. of Pages : 27 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022372 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROACTIVE SUGGESTION FOR SHARING OF MEETING CONTENT

(51) International classification	:G06Q0010100000, H04L0029080000, H04N0001000000, G06F0003048100, H04L0012580000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:62/755254	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)JABER, Rayyan</b>
(33) Name of priority country	:U.S.A.	<b>2)COWAN, Jackson</b>
(86) International Application No	:PCT/US2019/057508	<b>3)HERNANDEZ, Kevin Tomas</b>
Filing Date	:23/10/2019	<b>4)WANG, Guangcai</b>
(87) International Publication No	:WO 2020/092071	<b>5)YOUNG, Gregory Powell</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to processing operations configured for management of proactive suggestion(s) that may be utilized to manage the sharing of meeting content. The present disclosure further describes optimization of a user interface whereby a user interface experience is improved through new user interface features and actions that enable proactive presentation of suggestions for syncing content with a meeting as well as sharing synced content. Various intelligent signals such as user's calendar, GPS location, camera roll content, capture content (including OCR, whiteboard detection, etc.) and capture time, are collected and analyzed to make smart suggestions to the user to share content with specific set of people (e.g., those involved in meeting). Processing described herein enables contextual correlation between specific content and a scheduled meeting, whereby results of that contextual correlation can be used to execute programmed actions to improve efficiency for computing devices and users.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022373 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : COATED AND/OR IMPREGNATED URETERAL CATHETER OR STENT AND METHOD

(51) International classification	:A61M0025000000, A61M0025100000, A61M0001000000, A61M0025040000, A61F0002040000	(71) <b>Name of Applicant :</b> <b>1)STRATACA SYSTEMS LIMITED</b> Address of Applicant :4, V. Dimech Street Floriana, FRN 1504 Malta
(31) Priority Document No	:16/206389	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/11/2018	<b>1)ERBEY, John, R., II</b>
(33) Name of priority country	:U.S.A.	<b>2)TUCKER, Bryan, J.</b>
(86) International Application No	:16/696026	<b>3)UPPERCO, Jacob, L.</b>
Filing Date	:26/11/2019	
(87) International Publication No	:WO 2020/110049	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A coated and/or impregnated urinary catheter or urinary stent device, including: (a) a proximal portion; and (b) a distal portion, the distal portion comprising a retention portion that includes at least one protected drainage hole(s), port(s) or perforation(s) and is configured to establish an outer periphery or protective surface area that inhibits mucosal tissue from occluding the at least one protected drainage hole(s), port(s) or perforation(s) upon application of negative pressure through the catheter; and at least one coating(s) upon and/or at least one impregnation(s) within at least a portion of the protective surface area, the at least one coating(s) and/or at least one impregnation(s) including at least one of lubricant(s), antimicrobial material(s), pH buffer(s) or anti-inflammatory material(s)

No. of Pages : 138 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022374 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INERTIAL MEASURING UNIT WITH REDUCED SENSITIVITY TO THERMOMECHANICAL CONSTRAINTS

(51) International classification	:G01P0015080000, B23D0047040000, H04M0001020000, B30B0001000000, H04L0025020000	(71) <b>Name of Applicant :</b> <b>1)SAFRAN ELECTRONICS &amp; DEFENSE</b> Address of Applicant :72-76 rue Henry Farman 75015 Paris France
(31) Priority Document No	:1859841	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/10/2018	<b>1)CUINAT, Jr me</b>
(33) Name of priority country	:France	<b>2)VANDEBEUQUE, Paul</b>
(86) International Application No	:PCT/EP2019/079101	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084089	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Measuring unit comprising at least two elements, namely a frame and an inertial sensor, a first of the elements being provided with pads having a surface on which a bearing surface of a second of the elements is applied under a force substantially normal to the surfaces which is exerted by at least one clamping element, the pads having dimensions and a geometry designed to: - enable a deformation of the pads under the effect of a thermomechanical stress generated in a range of operating temperatures of the measuring unit so as to prevent the surfaces from sliding relative to one another under the effect of said constraint, - hold the inertial sensor in position by providing a limited transmission of vibrations which is compatible with the operation of the sensor.

No. of Pages : 8 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022377 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SUB-ADC ASSIGNMENT IN TI-ADC

(51) International classification :H03M0001100000,  
H03M0001120000,  
H03M0001060000,  
H04N0005440000,  
G09G0003293000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/EP2018/078867  
Filing Date :22/10/2018  
(87) International Publication No :WO 2020/083461  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :SE-164 83 Stockholm Sweden  
(72)Name of Inventor :  
**1)SUNDSTR-M, Lars**  
**2)PALM, Mattias**  
**3)STRANDBERG, Roland**

(57) Abstract :

A TI-ADC (50) comprising a group of sub-ADCs (A1-AM+N) is disclosed. During operation,  $M=2$  of the sub-ADCs (A1-AM+N) are simultaneously operated for converting  $M$  respective consecutive input signal samples of the TI-ADC (50) from an analog to a digital representation. The total number of sub-ADCs (A1-AM+N) in the group is  $M+N$ ,  $N=1$ . The TI-ADC (50) comprises error-estimation circuitry (60) for estimating errors of the sub-ADCs (A1-AM+N). Furthermore, the TI-ADC (50) comprises a control circuit (55) configured to, for each input signal sample, assign which sub-ADC (A1-AM+N) is to operate on that input signal sample. The control circuit (55) is configured to, for sub-ADCs ( $A_{k1}$ ) in a first subset of the group of sub-ADCs (A1-AM+N), which are subject to error estimation by the error-estimation circuitry (60), perform the assignment according to a first scheme. Moreover, the control circuit (55) is configured to, for sub-ADCs ( $A_{k2}$ ) in a second subset of the group of sub-ADCs (A1-AM+N), which are not subject to error estimation by the error-estimation circuitry (60), perform the assignment according to a second scheme, different from the first scheme.

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022378 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR PRODUCING SEARCH RESULTS BASED ON USER PREFERENCES

(51) International classification	:G06F0016953500, G06F0016951000, G06F0016335000, G06F0016332000, G06F0016245700
(31) Priority Document No	:16/166923
(32) Priority Date	:22/10/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2019/058861
Filing Date	:17/10/2019
(87) International Publication No	:WO 2020/084410
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**  
**1)NEGENTROPICS SZOFTVER ZRT.**  
Address of Applicant :Corvin st;ny 1. B. lh;z. 9. em. 6. 1082  
Budapest Hungary  
(72)**Name of Inventor :**  
**1)UZONYI, Zolt;n**

(57) Abstract :

Methods for producing personalized search results are disclosed. The methods include identifying a first list of search results associated with a search query from a user; identifying a search profile of the user; generating a set of characteristic features for each search result of the first list of search results, wherein each set of characteristic features describes the content of a search result in a binary form; identifying, in the first list of search results, one or more search results having characteristic features matching the characteristic features of the search profile; based on the matching, modifying the first list of search results for generating a second list of search results organized by the relevance of the search results with respect to the search profile; and providing the second list of search results to the user.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022386 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SEQUENCED DEVICE ALERTING

(51) International classification	:H04L0029080000, H04L0012580000, H04L0029060000, H04W0076100000, H04W0076280000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/182295	(72) <b>Name of Inventor :</b>
(32) Priority Date	:06/11/2018	<b>1)HASSAN, Amer A.</b>
(33) Name of priority country	:U.S.A.	<b>2)DAVIS, Michael J.</b>
(86) International Application No	:PCT/US2019/058685	<b>3)SEKARAN, Mahendra</b>
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/096821	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed in some examples are methods, systems, and machine-readable mediums that assign a same identifier to a plurality of a user's communication devices. A communication server alerts only one device of the plurality of communication devices at a time in response to a communication establishment request from a calling communication device directed to the identifier. If the user fails to answer the alert, another device is chosen and alerted according to a particular sequence of devices until the user either answers or until all devices (or a determined subset of devices) have been tried. In some examples, the communication devices are reachable by the communication service via an alternative address known to the communication server, such as an Internet Protocol (IP) address.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022413 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ESTABLISHING INSTANT MEETING FOR ACTIVE DISCUSSION THREADS

(51) International classification	:H04L0029080000, G06Q0010100000, H04N0007150000, H04M0003560000, H04M0003220000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/183366	(72) <b>Name of Inventor :</b>
(32) Priority Date	:07/11/2018	<b>1)TIPPANA, Sreevani</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/058989	
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/096843	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An instant meeting in the form of a video and/or audio call is initiated when a discussion thread becomes sufficiently active. Information about a discussion thread of two or more participants is stored and a number of messages related to the discussion thread from the two or more participants in a predetermined period of time is determined. When the number of messages related to the discussion thread within the predetermined period of time from the two or more participants exceeds a first threshold, a mean time between replies to messages in the discussion thread is calculated. The meeting or call for the two or more participants is established when the number of messages exceeds the first threshold and the mean time between replies to messages in the discussion thread is below the second threshold.

No. of Pages : 20 No. of Claims : 15



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022417 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NEW HETEROCYCLIC COMPOUNDS

(51) International classification	:C07D0413140000, C07D0471040000, A61P0025000000, C07D0417040000, C07D0403120000	(71) <b>Name of Applicant :</b> <b>1)F. HOFFMANN-LA ROCHE AG</b> Address of Applicant :Grenzacherstrasse 124 4070 Basel Switzerland <b>2)HOFFMANN-LA ROCHE INC.</b>
(31) Priority Document No	:18207725.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:22/11/2018	<b>1)KUHN, Bernd</b>
(33) Name of priority country	:EPO	<b>2)GRETHER, Uwe</b>
(86) International Application No	:PCT/EP2019/081870	<b>3)HORNSPERGER, Benoit</b>
Filing Date	:20/11/2019	<b>4)RICHTER, Hans</b>
(87) International Publication No	:WO 2020/104494	<b>5)KROLL, Carsten</b>
(61) Patent of Addition to Application Number	:NA	<b>6)GROEBKE ZBINDEN, Katrin</b>
Filing Date	:NA	<b>7)O`HARA, Fionn</b>
(62) Divisional to Application Number	:NA	<b>8)ROMBACH, Didier</b>
Filing Date	:NA	<b>9)LUTZ, Marius Daniel Rinaldo</b>

(57) Abstract :

The invention provides new heterocyclic compounds having the general formula (I) wherein A, B, L, X, R1, R2, R3 and R4 are as described herein, compositions including the compounds, processes of manufacturing the compounds and methods of using the compounds.

No. of Pages : 137 No. of Claims : 52

(54) Title of the invention : VIDEO PROCESSING METHOD AND APPARATUS, DEVICE, AND STORAGE MEDIUM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06Q0050000000, H04N0005232000, H04N0007180000, G06F0009451000, H04N0007140000</p> <p>:201811554743.8</p> <p>:18/12/2018</p> <p>:China</p> <p>:PCT/CN2019/118775 :15/11/2019</p> <p>:WO 2020/125292</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)<b>Name of Applicant :</b> <b>1)TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED</b> Address of Applicant :35/F,Tencent Building, Kejizhongyi Road, Midwest District of Hi-tech park Nanshan District Shenzhen City, Guangdong 518057 China</p> <p>(72)<b>Name of Inventor :</b> <b>1)LIU, Man</b> <b>2)CAO, Su</b> <b>3)QIU, Hongfa</b> <b>4)YAN, Zhe</b> <b>5)WANG, Mingsan</b> <b>6)ZHENG, Qinhong</b> <b>7)TANG, Qi</b> <b>8)HE, Ziping</b> <b>9)CHENG, Shihai</b> <b>10)HUANG, Dong</b> <b>11)ZHANG, Dongxuan</b> <b>12)HUANG, Runjia</b> <b>13)ZHOU, Junjie</b> <b>14)SUO, Jingchao</b> <b>15)JIANG, Jin</b> <b>16)LI, Yong</b> <b>17)CAI, Zhenfeng</b> <b>18)CHEN, Yuewei</b> <b>19)WENG, Leteng</b> <b>20)GUAN, Zhenan</b> <b>21)ZHAO, Yuan</b> <b>22)LIU, Yiheng</b> <b>23)QI, Ying</b></p>
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(57) Abstract :

The present application relates to the technical field of computers, discloses a video processing method and apparatus, a device, and a storage medium, and is used for solving the problem of disturbing friends in posting on social platforms. The method comprises: monitoring an operation instruction input by a user by means of a personal homepage of a social platform, the personal homepage being used for displaying personal information of the user; when the operation instruction is a photographing instruction of photographing a personal state video, obtaining the personal state video; uploading the personal state video to a backend server of the social platform; and displaying instruction information of the personal state video on a personal information display area of the personal homepage.

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022432 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TIMER CONTROL METHOD AND APPARATUS, ELECTRONIC DEVICE, AND COMPUTER READABLE STORAGE MEDIUM

(51) International classification	:H04W0076280000, H04W0052020000, H04W0052440000, G06F0009460000, G06F0009440000	(71) <b>Name of Applicant :</b> <b>1)BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.</b> Address of Applicant :No.018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District Beijing 100085 China
(31) Priority Document No	:Singapore	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/06/2017	<b>1)JIANG, Xiaowei</b>
(33) Name of priority country	:Singapore	
(86) International Application No	:PCT/CN2018/112330	
Filing Date	:29/10/2018	
(87) International Publication No	:WO 2020/087198	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A timer control method, comprising: when a terminal is in a discontinuous reception active state and a preset communication action is interrupted, pausing a discontinuous reception timer that is currently operating (S1); and resuming operation of the timer upon resuming of the preset communication action (S2). As such, the present invention can ensure that a discontinuous reception timer will not operate during an interruption of a preset communication action, that is, ensure that the discontinuous reception timer will not time out during the interruption of a preset communication action, and accordingly, ensure that the discontinuous reception timer will not time out when the preset communication action resumes operation after the interruption, such that UE will still be in a DRX active state so as to monitor a PDCCH, thereby ensuring certain communication actions can still be successfully performed with respect to the UE.

No. of Pages : 19 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022433 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DESIGN OF SYMBOL-GROUP BASED SPREADING SCHEMES

(51) International classification	:H04J0013000000, H04L0005000000, H04J0013160000, H04B0001707000, H04L0027260000	(71) <b>Name of Applicant :</b> <b>1)ZTE CORPORATION</b> Address of Applicant :ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(31) Priority Document No	:	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/06/2017	<b>1)LI, Ziyang</b>
(33) Name of priority country	:Argentina	<b>2)TIAN, Li</b>
(86) International Application No	:PCT/CN2018/114787	<b>3)CAO, Wei</b>
Filing Date	:09/11/2018	<b>4)ZHANG, Nan</b>
(87) International Publication No	:WO 2020/034457	<b>5)YUAN, Zhifeng</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods, systems, and devices for the design of symbol-group based spreading schemes are described. An exemplary method for wireless communication includes transmitting, by a terminal, a first spread signal that is generated by spreading a first group of N data symbols using a first set of N sequences, where N is a symbol-group length, L is a spreading length, each of the first set of N sequences is from an orthogonal spreading sequence set that comprises L sequences, and each of the L sequences is of length L. Another exemplary method for wireless communication includes transmitting, by a network node, an indication of a first set of N sequences, and receiving a first spread signal comprising a group of N data symbols spread using the first set of N sequences.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022494 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MEANS AND METHOD FOR POINT-OF-CARE ANALYSIS OF LIQUID SAMPLES

(51) International classification	:B32B0005020000, B01L0003000000, G01N0033520000, D06N0003140000, G01N0033500000	(71) <b>Name of Applicant :</b> <b>1)THE STATE OF ISRAEL, MINISTRY OF AGRICULTURE &amp; RURAL DEVELOPMENT, AGRICULTURAL RESEARCH ORGANIZATION (ARO) (VOLCANI CENTER)</b>
(31) Priority Document No	:62/750260	Address of Applicant :Volcani Center P.O. Box 15159
(32) Priority Date	:25/10/2018	7528809 Rishon Lezion Israel
(33) Name of priority country	:U.S.A.	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/IL2019/051150	<b>1)EVGENI, Elztov</b>
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084620	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A sensor for the rapid, onsite identification of analytes characterized by: (a) a sample layer; (b) at least one reaction layer, interconnected with the sample layer; (c) at least one reporter layer, interconnected with the reaction layer; (d) at least one preventative layer, interconnected with the reporter layer; and (e) an absorption pad, interconnected with the preventative layer; with the layers arranged as a signaling channel. The sensor utilized an analyte-effector complex wherein said effector affects the preventative layer as such enables a reporter compound to cross the preventative layer.

No. of Pages : 20 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022497 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : IDENTITY AUTHENTICATION, NUMBER SAVING AND SENDING, AND NUMBER BINDING METHOD, APPARATUS AND DEVICE

(51) International classification :H04L0029060000,  
H04L0009320000,  
G06F0021310000,  
G06Q0020320000,  
G06F0021320000

(31) Priority Document No :201811248773.6

(32) Priority Date :25/10/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/102787  
Filing Date :27/08/2019

(87) International Publication No :WO 2020/082885

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)ADVANCED NEW TECHNOLOGIES CO., LTD.**

Address of Applicant :Cayman Corporate Centre, 27 Hospital Road, George Town, Grand Cayman KY1-9008 Cayman Island

(72)Name of Inventor :

**1)ZHU, Jinbiao**

(57) Abstract :

Disclosed are an identity authentication, number saving and sending, and number binding method, apparatus and device. The identity authentication method comprises: receiving a user identity authentication request sent by a data authentication platform client, wherein the user identity authentication request comprises user authentication information and user identification information, and a data authentication platform server pre-stores the user authentication information and a registration number and a password, which correspond to the user identification information; acquiring, according to the user identification information, the user authentication information pre-stored in the data authentication platform server; matching the user identification information in the acquired user identity authentication request with the acquired user authentication information pre-stored in the data authentication platform server; when the matching is successful, receiving a result, sent by the data authentication platform client, of confirming the acquisition of the registration number by a user; according to the received confirmation result, acquiring the registration number and the corresponding password of the user; and sending the acquired registration number and corresponding password of the user to a third-party mechanism server.

No. of Pages : 20 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022515 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BIAXIALLY ORIENTED POLYESTER FILM ROLL

(51) International classification	:B32B0027360000, C08J0005180000, C08J0007040000, B29K0067000000, C08L0067020000	(71) <b>Name of Applicant :</b> <b>1)TOYOBO CO., LTD.</b> Address of Applicant :2-8, Dojima Hama 2-chome, Kita-ku, Osaka-shi, Osaka 5308230 Japan
(31) Priority Document No	:2018-203615	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/10/2018	<b>1)MANABE, Nobuyuki</b>
(33) Name of priority country	:Japan	<b>2)HARUTA, Masayuki</b>
(86) International Application No	:PCT/JP2019/041984	
Filing Date	:25/10/2019	
(87) International Publication No	:WO 2020/090673	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a polyester film roll which has less wrinkles and film surface defects, exhibits no deviation of winding, and is suitable for secondary processing such as coating and vapor deposition. The polyester film roll is obtained by winding a biaxially oriented polyester film around a core, and is characterized by satisfying requirements (1)-(3) below: (1) the average winding hardness of the surface of the polyester film roll is in the range of 500-700; (2) the variation rate of the winding hardness of the surface of the polyester film roll in the film width direction is 1-5%; and (3) the variation rate of the average winding hardness from the surface of the polyester film roll to the core is 3-10%.

No. of Pages : 60 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022516 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

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(54) Title of the invention : COMPOUNDS, COMPOSITIONS, AND METHODS FOR MODULATING CDK9 ACTIVITY

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(51) International classification	:C07D0487040000, A61K0031519000, A61P0003100000, A61P0031040000, C07D0519000000	(71) <b>Name of Applicant :</b> <b>1)KRONOS BIO, INC.</b> Address of Applicant :1300 S. El Camino Real Suite 300 San Mateo, California 94402 U.S.A.
(31) Priority Document No	:62/752635	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/10/2018	<b>1)MIKOCHIK, Peter</b>
(33) Name of priority country	:U.S.A.	<b>2)VACCA, Joseph</b>
(86) International Application No	:PCT/US2019/058482	<b>3)FREEMAN, David</b>
Filing Date	:29/10/2019	<b>4)TASKER, Andrew</b>
(87) International Publication No	:WO 2020/092314	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Inhibitors of CDK9 that are pyrazolo [1,5-a] pyrimidine derivatives and salts thereof, corresponding to formula (I): (I).

No. of Pages : 63 No. of Claims : 11



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022517 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR PRODUCING HALIDES

(51) International classification	:C09K0011770000, C01B0021082000, H01L0021040000, C01B0025450000, B01J0037020000	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-247312	(72) <b>Name of Inventor :</b>
(32) Priority Date	:28/12/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/025440	
Filing Date	:26/06/2019	
(87) International Publication No	:WO 2020/136956	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for producing halides according to the present disclosure includes a firing step in which, in an inert gas atmosphere, a mixed material obtained by mixing M<sub>2</sub>O<sub>3</sub> and NH<sub>4</sub>X and LiZ is fired. The aforementioned M includes at least one element selected from the group consisting of Y, lanthanoids and Sc. X is at least one element selected from the group consisting of Cl, Br, I and F. Z is at least one element selected from the group consisting of Cl, Br, I and F.

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022518 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HALIDE PRODUCTION METHOD

(51) International classification	:C09K0011770000, C04B0035626000, C07C0253240000, C01B0021082000, B01J0037080000	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-247311	(72) <b>Name of Inventor :</b>
(32) Priority Date	:28/12/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/025437	
Filing Date	:26/06/2019	
(87) International Publication No	:WO 2020/136953	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This halide production method includes a firing step for firing, in an inert gas atmosphere, a mixed material that is a material in which LiZ and (NH<sub>4</sub>)<sub>a</sub>MX<sub>3+a</sub> are mixed. M includes at least one element selected from the group consisting of Y, lanthanide, and Sc. X is at least one element selected from the group consisting of Cl, Br, I, and F. Z is at least one element selected from the group consisting of Cl, Br, I, and F. The expression 0

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022519 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PHOSPHORUS-CONTAINING HIGH-SILICON MOLECULAR SIEVE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

(51) International classification	:B01J0029850000, C01B0039020000, B01J0029080000, C10G0047200000, B01D0053940000	(71)Name of Applicant : <b>1)CHINA PETROLEUM &amp; CHEMICAL CORPORATION</b> Address of Applicant :22 Chaoyangmen North Street, Chaoyang District Beijing 100728 China <b>2)RESEARCH INSTITUTE OF PETROLEUM PROCESSING, SINOPEC</b>
(31) Priority Document No	:201811259943.0	(72)Name of Inventor :
(32) Priority Date	:26/10/2018	<b>1)MAO, Yichao</b>
(33) Name of priority country	:China	<b>2)LI, Mingfeng</b>
(86) International Application No	:PCT/CN2019/102008	<b>3)LONG, Xiangyun</b>
Filing Date	:22/08/2019	<b>4)ZHANG, Runqiang</b>
(87) International Publication No	:WO 2020/082880	<b>5)ZHAO, Yang</b>
(61) Patent of Addition to Application Number	:NA	<b>6)ZHAO, Guangle</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A phosphorus-containing high-silicon molecular sieve, a preparation method therefor and an application thereof; in terms of oxides and by using the dry basic weight of the molecular sieve as a baseline, the molecular sieve comprises about 86.5-99.8% by weight of silicon, about 0.1-13.5% by weight of aluminum and about 0.01-6% by weight of phosphorus; the XRD spectrum of the molecular sieve has at least three diffraction peaks, the diffraction angle position of a first strong peak being at about 5.9-6.9°, the diffraction angle position of a second strong peak being at about 10.0-11.0°, and the diffraction angle position of a third strong peak being at about 15.6-16.7°. When the phosphorus-containing high-silicon molecular sieve is used to prepare a hydrocracking catalyst, the molecular sieve exhibits improved hydrocracking activity in the presence of a nitrogen-containing substance.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022520 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL DIPEPTIDE COMPOUNDS AND USES THEREOF

(51) International classification	:A61K0038000000, C07K0005020000, A61P0007020000, A61K0038060000, A61P0035000000	(71) <b>Name of Applicant :</b> <b>1)HUAHAI US INC.</b> Address of Applicant :700 Atrium Drive Somerset, NJ 08873 U.S.A.
(31) Priority Document No	:62/751984	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/10/2018	<b>1)LI, Min</b>
(33) Name of priority country	:U.S.A.	<b>2)HUANG, Yu</b>
(86) International Application No	:PCT/US2019/057985	
Filing Date	:25/10/2019	
(87) International Publication No	:WO 2020/092139	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are novel compounds of Formula I, or a pharmaceutically acceptable salt thereof or pharmaceutical compositions comprising the same. Also provided are methods of preparing the compounds of Formula I, or pharmaceutically acceptable salt thereof. Further provided are methods of using the novel compounds of Formula I, or a pharmaceutically acceptable salt thereof, for example, for inhibiting thrombin and/or for the use in the prevention and/or treatment of thrombin-mediated and thrombin-related diseases.

No. of Pages : 46 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022532 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : IMAGE BASED GUIDING OF AN INTERVENTIONAL DEVICE

(51) International classification	:A61B0006000000, A61B0034200000, A61B0006120000, A61B0008080000, A61B0090000000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:18290124.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:25/10/2018	<b>1)AUVRAY, Vincent, Maurice, Andr</b>
(33) Name of priority country	:EPO	<b>2)FLORENT, Raoul</b>
(86) International Application No	:PCT/EP2019/078474	
Filing Date	:21/10/2019	
(87) International Publication No	:WO 2020/083798	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to guiding an interventional device. In order to provide improved guidance when navigating by the aid of roadmapping, an apparatus (10) for guidance of an interventional device is provided. The apparatus comprises an input unit (12); a data storage unit (14), a data processing unit (16) and an output unit (18). The data storage unit is configured to provide a vasculature map of a region of interest with a vasculature presentation of a subject's vasculature structure. The input unit is configured to receive and transfer to the data processing unit at least one current image of the region of interest, wherein an interventional device is at least partly visible in the at least one current image when inserted within the vasculature structure in the region of interest. The data processing unit is configured to combine the vasculature map and the at least one current image, and to detect a location of at least one part of the interventional device in the vasculature map, and to detect if the at least one part of the interventional device lays outside the vasculature presentation shown in the vasculature map and to determine a branching-off location for the interventional device on the vasculature map, and also to adapt the vasculature map in the branching-off location providing an indication of the branching-off location. The output unit is configured to provide an adapted vasculature map.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022540 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SOLID ELECTROLYTE MATERIAL AND BATTERY USING SAME

(51) International classification	:H01M0010056200, H01M0010052500, H01M0010052000, H01B0001060000, C01D0015000000	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-248582	(72) <b>Name of Inventor :</b>
(32) Priority Date	:28/12/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/037202	
Filing Date	:24/09/2019	
(87) International Publication No	:WO 2020/137042	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a solid electrolyte material which has high lithium ion conductivity. A solid electrolyte material according to the present disclosure contains Li, Sm, O and X. X is at least one element that is selected from the group consisting of Cl, Br and I.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022541 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LASER WELDING METHOD, AND LAMINATE

(51) International classification	:B23K0026280000, F21S0041160000, B23K0026244000, B23K0026082000, H01L0021027000	(71) <b>Name of Applicant :</b> <b>1)HONDA MOTOR CO., LTD.</b> Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-217556	(72) <b>Name of Inventor :</b>
(32) Priority Date	:20/11/2018	<b>1)AKAHOSHI Hideaki</b>
(33) Name of priority country	:Japan	<b>2)YAMAGUCHI Akira</b>
(86) International Application No	:PCT/JP2019/033973	<b>3)FUJIKURA Kotaro</b>
Filing Date	:29/08/2019	<b>4)TSUKAGOSHI Yasuharu</b>
(87) International Publication No	:WO 2020/105243	<b>5)IWAGUCHI Yoshimasa</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KANAYA Kohei</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a laser welding method and a laminate with which it is possible to prevent damage to a welded part and improve the quality of a laminate after welding. A laser control unit 12 controls driving of a laser radiation unit 11 so as to cause a first metal sheet W1 and a second metal sheet W2 of a laminate 15 to be irradiated with laser light L in a first state in which the output is adjusted so that fusion is possible. The laser light L in the first state is radiated along a substantially arcuate outer peripheral path OR that extends so as to surround a prescribed portion 15a of the laminate 15 and that has at least a part thereof opened. The laser control unit 12 controls the driving of the laser radiation unit 11 so as to cause the first metal sheet W1, which is the uppermost layer of the laminate 15, to be irradiated with laser light L in a second state in which the output is adjusted so that fusion is conducted without penetrating the first metal sheet W1. The laser light L2 in the second state is radiated in a first path R1 that extends along an inner peripheral portion of the outer peripheral path OR, and also in a second path R2 that extends along the inner peripheral portion of the outer peripheral path OR in the opposite direction from the first path R1.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022542 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CATALYTIC CRACKING METHOD AND CATALYST SYSTEM

(51) International classification	:C10G0011050000, C08L0101000000, C08G0083000000, C07C0004060000, B01J0029080000	(71) <b>Name of Applicant :</b> <b>1)CHINA PETROLEUM &amp; CHEMICAL CORPORATION</b> Address of Applicant :22 Chaoyangmen North Street, Chaoyang District Beijing 100728 China <b>2)RESEARCH INSTITUTE OF PETROLEUM PROCESSING, SINOPEC</b>
(31) Priority Document No	:201811261409.3	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/10/2018	<b>1)LUO, Yibin</b>
(33) Name of priority country	:China	<b>2)OUYANG, Ying</b>
(86) International Application No	:PCT/CN2019/113235	<b>3)XING, Enhui</b>
Filing Date	:25/10/2019	<b>4)SHU, Xingtian</b>
(87) International Publication No	:WO 2020/083363	<b>5)CHENG, Xiaojie</b>
(61) Patent of Addition to Application Number	:NA	<b>6)ZHU, Genquan</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a catalytic cracking method and a catalyst system. The method comprises the following step: contacting a raw material to be cracked with a catalytic cracking catalyst in the presence of a free radical initiator under catalytic cracking reaction conditions to conduct a catalytic cracking reaction, wherein the free radical initiator comprises a dendritic polymer and/or a hyperbranched polymer, the dendritic polymer and the hyperbranched polymer each independently having a degree of branching of about 0.3-1, and the dendritic polymer and the hyperbranched polymer each independently having a weight-average molecular weight of greater than about 1000. The disclosed catalytic cracking method is beneficial for intensifying and accelerating free radical cracking of petroleum hydrocarbons, and promoting modulation of cracking activity and product distribution. The method can increase the conversion rate of catalytic cracking, increase the yields of ethylene and propylene, and decrease the production of coke.

No. of Pages : 35 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022543 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : REAR DOOR OF VEHICLE

(51) International classification	:B60J0005040000, G06K0009000000, B60J0005100000, B60Q0001300000, B60J0010760000	(71) <b>Name of Applicant :</b> <b>1)HONDA MOTOR CO., LTD.</b> Address of Applicant :1-1 , Minami-Aoyama 2-chome Minato-ku, Tokyo 107-8556 Japan
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)HAKAMATA, Koki</b>
(33) Name of priority country	:NA	<b>2)TANTICHAROEN, Thayanon</b>
(86) International Application No	:PCT/JP2018/040924	<b>3)MAHAJINDAWONG, Tanvaree</b>
Filing Date	:30/10/2018	
(87) International Publication No	:WO 2020/090123	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A rear door of a vehicle includes a door inner panel (10), a door outer panel (11), and taillights (14). The door outer panel (11) is mounted on a vehicle exterior side of the door inner panel (10). The taillights (14) are supported on both right and left side portions of the door inner panel (10). Openings (16) extending in a vertical direction are provided on both right and left side portions of the door inner panel (10). A bracket (17) for mounting of the taillight is coupled to an edge portion of each opening (16).

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022544 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BATTERY MANAGEMENT SYSTEM AND BATTERY MANAGEMENT METHOD

(51) International classification	:G06K0009000000, B60L0053800000, G06F0021320000, B60L0050600000, B60L0058100000	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-207717	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/037704	
Filing Date	:25/09/2019	
(87) International Publication No	:WO 2020/090304	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem] To reduce the burden on a user when exchanging a battery and to ensure sufficient security in user authentication.

[Solution] A battery exchanger 3 has a camera 11 for capturing a visitor. A management server 4 performs face verification to determine whether or not the visitor is an authorized user on the basis of face image information acquired from an image taken by the camera, determines whether or not battery exchange is permitted on the basis of a face verification result, and notifies the battery exchanger of the determination result. Furthermore, the management server performs battery verification to determine whether or not a battery pack brought in by the visitor is exchangeable on the basis of identification information of the battery pack brought in by the visitor and determines whether or not battery exchanger is permitted on the basis of a battery verification result.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022545 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : THERAPEUTIC MEDICATION FOR CARTILAGE DISORDER

(51) International classification	:A61K0038190000, A61K0038170000, A61P0019020000, A61P0009040000, C07K0016180000	(71) <b>Name of Applicant :</b> <b>1)OSAKA UNIVERSITY</b> Address of Applicant :1-1, Yamadaoka, Suita-shi, Osaka 5650871 Japan <b>2)STEMRIM INC.</b>
(31) Priority Document No	:2018-200866	(72) <b>Name of Inventor :</b>
(32) Priority Date	:25/10/2018	<b>1)TAMAI, Katsuto</b>
(33) Name of priority country	:Japan	<b>2)SHIMBO, Takashi</b>
(86) International Application No	:PCT/JP2019/042015	<b>3)SASAKI, Eiji</b>
Filing Date	:25/10/2019	<b>4)TSUSHIMA, Takahiro</b>
(87) International Publication No	:WO 2020/085506	<b>5)YAMAZAKI, Takehiko</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The inventors of the present invention searched for a substance that is effective in treating a cartilage disorder, and as a result, found that, in an animal model of joint cartilage deficiency, an HMGB1 fragment peptide having a specific amino acid sequence exhibits the effect of reproducing a healthy cartilage tissue including a hyaline cartilage. Based on this finding, the present invention provides a pharmaceutical composition that contains the specific HMGB1 fragment peptide and that is for preventing and/or treating a cartilage disorder.

No. of Pages : 27 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022558 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : X-RAY IMAGING ARRANGEMENT

(51) International classification :A61B0006000000,  
B66F0011040000,  
B25J0009000000,  
F16L0003160000,  
B26F0001380000

(31) Priority Document No :18203289.6

(32) Priority Date :30/10/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/079600  
Filing Date :30/10/2019

(87) International Publication No :WO 2020/089272

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)KONINKLIJKE PHILIPS N.V.**

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**2)TECHNISCHE UNIVERSITEIT EINDHOVEN**

(72)Name of Inventor :

**1)VAN LOON, Robertus, Johannes, Adrianus**

**2)VAN PINXTEREN, Jeffrey, Adrianus, Wilhelmus**

**3)VERMEULEN, Johannes, Petrus, Martinus, Bernardus**

(57) Abstract :

The present invention relates to X-ray imaging. In order to provide a facilitated and space-saving X-ray imaging apparatus, an imaging arrangement (10) for X-ray imaging is provided that comprises a lower movable support arrangement (12) movably holding an X-ray source (14), and an upper movable support arrangement (16) movably holding an X-ray detector (18). The lower movable support arrangement is configured to be mounted to a floor (20), and the upper movable support arrangement is configured to be mounted to a ceiling (22). The lower movable support arrangement comprises a lower boom (24) rotatably attached to a lower base (26). The lower boom comprises two rotatably connected lower arms (28), and the lower base is rotatable around a vertical axis (30). The upper movable support arrangement comprises an upper boom (32) rotatably attached to an upper base (34). The upper boom comprises two rotatably connected upper arms (36). The rotation axes of the lower boom are arranged horizontally, and the rotation axes of the upper boom are arranged vertically.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022559 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ULTRASOUND CONTROL UNIT

(51) International classification :A61B0008080000,  
A61B0008000000,  
B29C0065000000,  
A61N0001365000,  
H04W0052140000

(31) Priority Document No :62/750332

(32) Priority Date :25/10/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/EP2019/078470  
Filing Date :21/10/2019

(87) International Publication No :WO 2020/083795

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)SUTTON, Jonathan, Thomas**  
**2)GROTH, Alexandra**  
**3)WEBER, Frank, Michael**  
**4)BHARAT, Shyam**  
**5)BINGLEY, Peter**  
**6)RAJU, Balasundar, Iyyavu**

(57) Abstract :

An ultrasound control unit (10) is for coupling with an ultrasound transducer unit (12). The control unit is adapted to control a drive configuration or setting of the transducers of the transducer unit, each drive setting having a known power consumption level associated with it. The control unit includes a control module (20) adapted to adjust the drive setting from a first setting to a second setting, the second having a lower associated power consumption than the first. The second setting is tested by an analysis module (16), the analysis module adapted to determine a measure of reliability of ultrasound data acquired by the transducer unit, for the purpose of deriving at least one physiological parameter, when configured in the second setting. The second setting is only used if its determined reliability passes a pre-defined reliability condition.

No. of Pages : 35 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022560 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HAIR STYLING USING DIELECTRIC HEATING

(51) International classification :A45D0001040000,  
A45D0001280000,  
A45D0001060000,  
B22F0003240000,  
G01N0033000000

(31) Priority Document No :18202589.0  
(32) Priority Date :25/10/2018  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2019/077840  
Filing Date :15/10/2019  
(87) International Publication No :WO 2020/083698  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)KONINKLIJKE PHILIPS N.V.**  
Address of Applicant :High Tech Campus 52 5656 AG  
Eindhoven Netherlands  
(72)Name of Inventor :  
**1)BOURQUIN, Yannyk, Parulian, Julian**  
**2)VARGHESE, Babu**  
**3)BARAGONA, Marco**

(57) Abstract :

In a hair styling device (100) comprising electrodes (102) for applying a radio- frequent signal to hair, a frequency of the radio- frequent signal is between 50 MHz and 90 MHz. Preferably, a voltage of the radio- frequent signal does not exceed 30 V, while a voltage not exceeding 10 V would work well in a configuration that applies another heat source (103) for heating hair up till a first temperature that is no more than 150 °C (and thus lower than a critical temperature at which hair cuticle damage will occur), and the radio- frequent electrodes (102) for - in combination with heat from the other heat source (103) - selectively heating a hair cortex to a second temperature exceeding the first temperature and sufficiently high for hair styling.

No. of Pages : 4 No. of Claims : 3

(54) Title of the invention : MULTIPLE SEPARATORS WHICH ARE PNEUMATICALLY CONNECTED TO ONE ANOTHER

(51) International classification	:B07B0004040000, B01D0046240000, B07B0007010000, B07B0007083000, B01D0053040000	(71) <b>Name of Applicant :</b> <b>1)KHD HUMBOLDT WEDAG GMBH</b> Address of Applicant :Colonia-Allee 3 51067 Kln Germany
(31) Priority Document No	:10 2018 129 538.3	(72) <b>Name of Inventor :</b> <b>1)DR. HACHENBERG, Niko</b>
(32) Priority Date	:23/11/2018	
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2019/081935	
Filing Date	:20/11/2019	
(87) International Publication No	:WO 2020/104528	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

The invention relates to a separator (100, 300, 400, 500) for separating granular material to be separated into at least one fraction consisting of fine material and one fraction consisting of coarse material, comprising a housing (G), in which a stepped cascade (108, 108') that can be permeated by separating gas (5) is installed at an angle (a) deviating from the horizontal, at least one inflow channel (103) leading into the housing (G) for separating gas, and at least one outflow channel (105a, 105a', 105b, 105b') leading out of the housing (G) for separating gas loaded with fine material, wherein, opposite the stepped cascade (108, 108') and separated therefrom by a separating zone (SZ), separating slats (107, 107') are arranged one above the other in a venetian blind-like manner, and wherein an inlet opening (102, 102', 102'', 102''') is arranged above the separating zone (SZ) on the top of the housing (G) and a discharge opening (104, 104') for the coarse material is arranged below the separating zone (SZ) on the bottom of the housing (G). According to the invention, it is provided that at least two individual separators (100', 100'', 100''', 100''''), which are arranged opposite one another, are pneumatically connected to one another via a common pressure compensation chamber (DAK), by which the separating gas flows into the respective inflow channels (103', 103'') of the at least two individual separators (100', 100'', 100''', 100'''). As a result, pressure fluctuations between two individual separators can be prevented and overall height can be saved.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022598 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : STABLE SEMAGLUTIDE COMPOSITIONS AND USES THEREOF

(51) International classification	:A61K0038000000, C07K0014605000, A61K0038260000, A61K0009200000, A61K0047640000	(71) <b>Name of Applicant :</b> <b>1)NOVO NORDISK A/S</b> Address of Applicant :Novo All 2880 Bagsværd Denmark
(31) Priority Document No	:18202801.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/10/2018	<b>1)ENGELUND, Dorthe, Kot</b>
(33) Name of priority country	:EPO	<b>2)JENSEN, Søren, Skov</b>
(86) International Application No	:PCT/EP2019/079214	<b>3)LUNDQVIST, Joakim</b>
Filing Date	:25/10/2019	
(87) International Publication No	:WO 2020/084126	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to pharmaceutical compositions of the GLP-1 peptide semaglutide comprising a stabilizer such as histidine, their preparation, kits comprising such compositions as well as medical uses thereof.

No. of Pages : 21 No. of Claims : 15



(54) Title of the invention : FLOAT ASSEMBLY

(51) International classification :B63B0035380000,  
F16K0024040000,  
H02J0001140000,  
F04B0049025000,  
B63B0001100000

(31) Priority Document No :2018-224101

(32) Priority Date :29/11/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/045750  
Filing Date :22/11/2019

(87) International Publication No :WO 2020/110928

(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

**1)SAKAGUCHI, Tsutomu****2)NAGAI, Hirofumi****3)UEDA, Yasunobu****4)NIIMI, Takaya****5)YUKAWA, Ayumu**

(57) Abstract :

Provided is a float assembly capable of suppressing inversion of a float, or suppressing birds from coming down on a solar panel and a float thereof. The present invention provides a float assembly comprising a plurality of floats linked together, the float assembly including a fill float which has a hollow portion, wherein at least a part of the hollow portion is filled with a filling. The fill float is disposed in a position facing an assembly outer periphery surrounding the float assembly. Also provided is a float assembly comprising a power generation unit and an attracting unit attached to the power generation unit. The power generation unit includes a first float and a solar panel. The solar panel is provided on the first float. The attracting unit includes a second float and is configured to attract birds.

No. of Pages : 25 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022601 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LARGE-SCALE CELL CULTURE SYSTEM

(51) International classification :C12M0001000000,  
C12M0003000000,  
C12M0001340000,  
C12M0001260000,  
C12M0001020000  
(31) Priority Document No :10-2018-0140008  
(32) Priority Date :14/11/2018  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2019/015499  
Filing Date :14/11/2019  
(87) International Publication No :WO 2020/101376  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)AMOGREENTECH CO., LTD.**  
Address of Applicant :91, Gimpo-daero 1950beon-gil,  
Tongjin-eup, Gimpo-si, Gyeonggi-do 10014 Republic of Korea  
(72)Name of Inventor :  
**1)JANG, Seon Ho**  
**2)HAN, Kyung Gu**  
**3)SEO, In Yong**  
**4)SEO, Dong Sik**  
**5)PARK, Hee Sung**

(57) Abstract :

A large-scale cell culture system is provided. A large-scale cell culture system according to one embodiment of the present invention comprises: an incubator having an internal space for providing a culture environment in which cells can be stably cultured; a cell culture part which is disposed in the internal space and in which a plurality of supports for cell culture are disposed; a medium supply part which is disposed in the inner space and in which a predetermined amount of a medium to be supplied to the cell culture part is stored; and a pump, which is disposed in the inner space, is connected to the cell culture part and the medium supply part, respectively, through a connecting tube, and circulates the medium so that the medium stored in the medium supply part can be collected toward the medium supply part after being supplied to the cell culture part, wherein the plurality of supports are provided in a plate shape having a predetermined area and are arranged to be spaced apart at regular intervals in a height direction inside the cell culture part.

No. of Pages : 33 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022602 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD OF PERFORMING A CUTTING OPERATION ON A WORKPIECE

(51) International classification	:H05K0003000000, B23B0027100000, B23C0005200000, F02F0003000000, B23D0047120000	(71) <b>Name of Applicant :</b> <b>1)NO SCREW LTD.</b> Address of Applicant :2 Te'ena Street 7319900 Hevel Modi'in Israel
(31) Priority Document No	:62/772641	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/11/2018	<b>1)HARIF, Gershon</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IL2019/051285	
Filing Date	:25/11/2019	
(87) International Publication No	:WO 2020/110107	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for performing a cutting operation on a workpiece is provided. The method comprises providing a workpiece being made of a metal characterized by a thermal conductivity of no greater than about 100 W/100 w/(m-K) (approximately 57.8 Btu/(hr ft °F)), providing a cutting device comprising an internal cooling cavity defined on one side thereof by a thin-walled structure, and performing a cutting operation on the workpiece using the cutting device. The cutting speed is no less than about 500 m/min. (approximately 1640 ft/min ).

No. of Pages : 22 No. of Claims : 131

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022605 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ISOLATING FALSE BASE STATIONS IN COMMUNICATION SYSTEMS

(51) International classification	:H04W0036000000, H04W0036080000, H04W0024100000, H04W0036300000, H04W0036320000	(71) <b>Name of Applicant :</b> <b>1)NOKIA TECHNOLOGIES OY</b> Address of Applicant :Karakaari 7 02610 Espoo Finland
(31) Priority Document No	:16/178211	(72) <b>Name of Inventor :</b> <b>1)NAIR, Suresh</b>
(32) Priority Date	:01/11/2018	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/FI2019/050752	
Filing Date	:23/10/2019	
(87) International Publication No	:WO 2020/089516	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A measurement report is sent from user equipment in a communication system to a serving base station in a serving cell of the communication system, wherein the measurement report comprises one or more signal measurements obtained by the user equipment for one or more other base stations in the communication system. A base station removal list is received at the user equipment from the serving base station which lists any base stations from the measurement report that failed a set-up procedure and are thus potentially false base stations. Any base stations in the base station removal list are removed from consideration by the user equipment as a target base station for a handover procedure.

No. of Pages : 17 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022606 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : IPV6 ADDRESS MANAGEMENT IN IAB SYSTEM

(51) International classification	:H04L0029120000, H04L0012749000, H04L0029060000, H04L0012741000, H04L0012715000	(71) <b>Name of Applicant :</b> <b>1)NOKIA SHANGHAI BELL CO., LTD.</b> Address of Applicant :No. 388, Ningqiao Road Pudong Jinqiao Shanghai 201206 China <b>2)NOKIA SOLUTIONS AND NETWORKS OY</b> <b>3)NOKIA TECHNOLOGIES OY</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)XU, Xiang</b>
(33) Name of priority country	:NA	<b>2)KAHN, Colin</b>
(86) International Application No	:PCT/CN2018/113436	<b>3)KOZIOL, Dawid</b>
Filing Date	:01/11/2018	
(87) International Publication No	:WO 2020/087445	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present disclosure relate to a method, a device and a computer readable medium for IPv6 address management in an IAB system. The method comprises obtaining an IPv6 prefix for an IAB node in the IAB system, the prefix being associated with the donor central unit or a donor distributed unit in the IAB system; determining an interface identity for the IAB node; and generating, based on the Internet Protocol Version 6, IPv6, prefix and the interface identity, an IPv6 address for the IAB node for communication between the donor central unit and the IAB node. As a result, IPv6 address management for an IAB node in an IAB system is implemented.

No. of Pages : 27 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022611 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MOTION ESTIMATION THROUGH INPUT PERTURBATION

(51) International classification	:H04N0019570000, H04N0019513000, H04N0019436000, A61B0005000000, H04N0019510000	(71) <b>Name of Applicant :</b> <b>1)QUALCOMM INCORPORATED</b> Address of Applicant :5775 Morehouse Drive Attn: International IP Administration San Diego, CA 92121-1714 U.S.A.
(31) Priority Document No	:16/215547	(72) <b>Name of Inventor :</b>
(32) Priority Date	:10/12/2018	<b>1)HOLMES, Samuel, Benjamin</b>
(33) Name of priority country	:U.S.A.	<b>2)RENSCHLER, Martin</b>
(86) International Application No	:PCT/US2019/065149	<b>3)WICKS, Jonathan</b>
Filing Date	:09/12/2019	<b>4)VANREENEN, Robert, John</b>
(87) International Publication No	:WO 2020/123339	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to methods and devices for motion estimation which may include a GPU. In one aspect, the GPU may generate at least one first motion vector in a first subset of a frame, the first motion vector providing a first motion estimation for image data in the first subset of the frame. The GPU may also perturb the image data. Also, the GPU may generate at least one second motion vector based on the perturbed image data, the second motion vector providing a second motion estimation for the image data. Moreover, the GPU may compare the first motion vector and the second motion vector. Further, the GPU may determine at least one third motion vector for the motion estimation of the image data based on the comparison between the first motion vector and the second motion vector.

No. of Pages : 39 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022644 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MICROBEADS FOR TAGLESS ENCODED CHEMICAL LIBRARY SCREENING

(51) International classification	:B01J0019000000, G01N0033500000, C12Q0001687400, A61K0031506000, C12Q0001683400	(71) <b>Name of Applicant :</b> <b>1)NANNA THERAPEUTICS LIMITED</b> Address of Applicant :Merrifield Centre Rosemary Lane Cambridge Cambridgeshire CB1 3LQ U.K.
(31) Priority Document No	:1817321.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/10/2018	<b>1)WILLIAMS, David Hugh</b>
(33) Name of priority country	:U.K.	<b>2)WOOD, Stuart Robert</b>
(86) International Application No	:PCT/EP2019/079095	<b>3)THOMPSON, Nicola</b>
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084084	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is an encoded chemical library microbead, which microbead has immobilized thereon and/or therein: (i) an encoding tag; and (ii) a target assay system reporter moiety, wherein the reporter moiety exists in a first state in the absence of activity against the target and in a second state in the presence of said activity, and wherein said microbead further comprises a clonal population of one or more chemical structure(s) releasably linked thereto and encoded by said tag.

No. of Pages : 68 No. of Claims : 83

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022655 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SECURE COUNT IN CLOUD COMPUTING NETWORKS

(51) International classification	:H04L0009080000, H04L0029060000, H04L0009320000, G06F0009455000, G06F0021530000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/197588	(72) <b>Name of Inventor :</b>
(32) Priority Date	:21/11/2018	<b>1)DIAZ-CUELLAR, Gerardo</b>
(33) Name of priority country	:U.S.A.	<b>2)THOM, Stefan</b>
(86) International Application No	:PCT/US2019/061341	<b>3)PFENNING, Joerg-Thomas</b>
Filing Date	:14/11/2019	
(87) International Publication No	:WO 2020/106530	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Inducements are provided to customers to regularly connect back to a service provider and report usage that is expressed using a count of requests from a local computing device for cloud-based operations such as packet routing, container instantiation, virtual machine (VM) utilization, calls to a service or application, and the like. The count information is reported within a secure context, such as a trusted execution environment (TEE), using public-private key pair cryptography by which key derivation is dependent on some form of counting. For example, a customer computing device that is subject to a usage license encrypts an operation count and reports it to the service provider.

No. of Pages : 27 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022656 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LOCATING SPATIALIZED SOUNDS NODES FOR ECHOLOCATION USING UNSUPERVISED MACHINE LEARNING

(51) International classification :G06F0003010000,  
G02B0027010000,  
G06T0019000000,  
G06N0020000000,  
G06F0003048800

(31) Priority Document No :16/198238

(32) Priority Date :21/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/060184  
Filing Date :07/11/2019

(87) International Publication No :WO 2020/106458

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
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**2)DREEWES, Wilson Jacob**  
**3)ARTEAGA, Brandon Myles**  
**4)BALACHANDER, Namita**

(57) Abstract :

Described herein is a system for generating echolocation sounds to assist a user having no sight or limited sight to navigate a three-dimensional space (e.g., physical environment, computer gaming experience, and/or virtual reality experience). Input is received from a user to generate echolocation sounds to navigate a three-dimensional space. Based at least on the received input, a digital representation of the threedimensional space is segmented into one or more depth planes using an unsupervised machine learning algorithm. For each depth plane, object segments are determined for each object within the particular depth plane. Locations of a plurality of echo sound nodes are determined in accordance with the depth level and surface area of each object defined by the determined segments. The echolocation sounds comprising a spatialized sound from each echo sound node originating from the determined location are generated.

No. of Pages : 15 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022657 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FASTER ACCESS OF VIRTUAL MACHINE MEMORY BACKED BY A HOST COMPUTING DEVICE'S VIRTUAL MEMORY

(51) International classification :G06F0009500000,  
G06F0009455000,  
G06F0012100900,  
G06F0016100000,  
G06F0011140000

(31) Priority Document No :16/198620

(32) Priority Date :21/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/061345  
Filing Date :14/11/2019

(87) International Publication No :WO 2020/106533

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)BAK, Yevgeniy**  
**2)IYIGUN, Mehmet**  
**3)KISHAN, Arun U.**

(57) Abstract :

To increase the speed with which the hierarchical levels of a Second Layer Address Table (SLAT) are traversed as part of a memory access where the guest physical memory of a virtual machine environment is backed by virtual memory assigned to one or more processes executing on a host computing device, one or more hierarchical levels of tables within the SLAT can be skipped or otherwise not referenced. While the SLAT can be populated with memory correlations at hierarchically higher-levels of tables, the page table of the host computing device, supporting the host computing device's provision of virtual memory, can maintain a corresponding contiguous set of memory correlations at the hierarchically lowest table level, thereby enabling the host computing device to page out, or otherwise manipulate, smaller chunks of memory. If such manipulation occurs, the SLAT can be repopulated with memory correlations at the hierarchically lowest table level.

No. of Pages : 44 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022692 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TRANSMEMBRANE DOMAIN DERIVED FROM HUMAN LRRC24 PROTEIN

(51) International classification :C07K0014470000,  
A61K0038000000,  
A61K0038170000,  
C07K0007060000,  
B82Y0005000000  
(31) Priority Document No :10-2018-0165438  
(32) Priority Date :19/12/2018  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2019/017829  
Filing Date :16/12/2019  
(87) International Publication No :WO 2020/130547  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :

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**2)KIM, Kyun Do**

**3)HWANG, In Su**

**4)KU, Keunbon**

**5)KIM, Chonsaeng**

**6)KIM, Bum Tae**

**7)AHN, Dae Gyun**

**8)KIM, Hae Soo**

**9)KWON, Young Chan**

(57) Abstract :

The present invention relates to a transmembrane domain derived from human LRRC24 protein. More specifically, the present invention relates to a transmembrane domain derived from the human LRRC24 protein (LRRC24P transmembrane domain) or a cell-penetrating peptide, and an intracellular delivery system comprising same. The transmembrane domain derived from the human LRRC24 protein of the present invention can be used to deliver cargo materials such as compounds, biomolecules, and various polymer materials into cells. Since the LRRC24P transmembrane domain of the present invention exhibits higher cell penetration efficiency compared to conventional cell-penetrating peptides and is derived from human proteins, thus avoiding side effects and immune responses caused by peptides derived from foreign proteins, it can be usefully used as an effective intracellular delivery method for compounds, biomolecules, and various polymer materials applied to the human body.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022709 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HALIDE PRODUCTION METHOD

(51) International classification :C22C0001040000,  
B22F0003100000,  
C04B0035640000,  
C01D0015000000,  
B22F0003240000

(31) Priority Document No :2018-243603

(32) Priority Date :26/12/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/025436  
Filing Date :26/06/2019

(87) International Publication No :WO 2020/136952

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)PANASONIC INTELLECTUAL PROPERTY  
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Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku,  
Osaka-shi, Osaka 5406207 Japan

(72)Name of Inventor :

**1)**

(57) Abstract :

A halide production method according to the present disclosure includes a sintering step in which a mixed material obtained by mixing LiX, YZ3, and at least one substance from among LiX' and YZ3 is sintered in an inert gas atmosphere. Therein, X represents one element that is selected from the group consisting of Cl, Br and I. Z represents one element that is selected from the group consisting of Cl, Br and I, and is different from X. X' represents one element that is selected from the group consisting of Cl, Br and I, and is different from both X and Z. Z' represents one element that is selected from the group consisting of Cl, Br and I, and is different from both X and Z. In the sintering step, the mixed material is sintered at a temperature of 200-650°C.

No. of Pages : 17 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022710 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD OF TREATMENT OF BIOLOGICAL SURFACES

(51) International classification	:F21S0043140000, B60Q0001000000, A61K0031650000, F21S0043190000, H01L0031035200	(71) <b>Name of Applicant :</b> <b>1)KOITE HEALTH OY</b> Address of Applicant :Otakaari 5 A 409 b 02150 Espoo Finland
(31) Priority Document No	:20185904	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/10/2018	<b>1)NIKINMAA, Sakari</b>
(33) Name of priority country	:Finland	<b>2)RANTALA, Juha</b>
(86) International Application No	:PCT/FI2019/050769	
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/084199	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method of treating biological surfaces with electromagnetic radiation in the form of light of two different energy levels, a first light with photons having a majority energy in the range from 3.5 eV to 2.8 eV and a second light with photons having a majority energy in the range from 1.24 eV to 2.48 eV. The photons of the first light and the second light are simultaneously directed against the biological surface. The invention also contemplates the use of sensitizers in topical treatments of infections using the method. The treatment will achieve good tissue penetration. It makes it possible to give antibacterial treatment to different areas of pathogen at the same time as two or more different energy photons can target molecules in different areas.

No. of Pages : 36 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022711 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HOLOGRAPHIC FOIL SUPPLYING DEVICE AS WELL AS HOT FOIL STAMPING MACHINE

(51) International classification	:B41F0019060000, B41F0016000000, B44B0005000000, B44C0001170000, G03H0001020000	(71) <b>Name of Applicant :</b> <b>1)BOBST MEX SA</b> Address of Applicant :Route de Faraz 3 1031 Mex Switzerland
(31) Priority Document No	:18020560.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/10/2018	<b>1)DE GAILLANDE, Christophe</b>
(33) Name of priority country	:EPO	<b>2)VOLLMER, Christoph</b>
(86) International Application No	:PCT/EP2019/025368	<b>3)TRAN HA, Simon</b>
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/088796	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A holographic foil supplying device for a hot foil stamping machine has a reel (26) for holographic foil (20), an advancement system (24) for advancing the holographic foil (20) along a movement path (P) in a feeding direction (F) and a frame (22) supporting the reel (26) and the advancement system (24), wherein the frame (22) comprises a mount (30) for mounting the holographic foil supplying device (18) to the hot foil stamping machine. Further, a hot foil stamping machine is shown.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022712 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SEAL STRUCTURE OF WIRE DRAWING FURNACE FOR OPTICAL FIBER, AND PRODUCTION METHOD FOR OPTICAL FIBER

(51) International classification	:C03B0037029000, G02B0006020000, C03B0037014000, G02B0006380000, G02B0006000000	(71) <b>Name of Applicant :</b> <b>1)SUMITOMO ELECTRIC INDUSTRIES, LTD.</b> Address of Applicant :5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 5410041 Japan
(31) Priority Document No	:2018-218141	(72) <b>Name of Inventor :</b>
(32) Priority Date	:21/11/2018	<b>1)OKAZAKI, Iwao</b>
(33) Name of priority country	:Japan	<b>2)YOSHIKAWA, Satoshi</b>
(86) International Application No	:PCT/JP2019/045518	<b>3)YAMAZAKI, Takashi</b>
Filing Date	:20/11/2019	<b>4)AOKI, Makoto</b>
(87) International Publication No	:WO 2020/105691	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This seal structure of a wire drawing furnace for an optical fiber is for sealing a gap between an upper end opening of the wire drawing furnace for an optical fiber and a glass base material for an optical fiber inserted from the upper end opening into a furnace core tube. This seal structure has: a plurality of blade members circumferentially arranged in contact with a circumferential side surface of the glass base material for an optical fiber; a guide member, provided around the plurality of blade members, for allowing the plurality of blade members to slide linearly toward the circumferential side surface of the glass base material for an optical fiber; and a pushing/pulling action mechanism that causes the blade members to move in the radial direction of the glass base material for an optical fiber. The center of gravity of the plurality of blade members is located behind the tip surface of the guide member.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022713 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR PRODUCING HALIDE

(51) International classification	:B01J0037080000, C01G0045120000, B01J0023180000, C01G0051000000, A23L0002520000	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-243604	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/12/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/025438	
Filing Date	:26/06/2019	
(87) International Publication No	:WO 2020/136954	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The method for producing a halide according to the present disclosure comprises a burning step for burning a mixed material, in which LiX is mixed with YZ<sub>3</sub>, under an inert gas atmosphere. X is an element selected from the group consisting of Cl, Br and I. Z is an element selected from the group consisting of Cl, Br and I. In the burning step, the mixed material is burnt at 200-650°C inclusive.

No. of Pages : 21 No. of Claims : 15



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022734 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BIAXIALLY ORIENTED POLYPROPYLENE FILM FOR HEAT SEALING

(51) International classification	:B32B0027080000, B32B0027320000, B29C0048080000, B32B0037150000, C08F0210160000	(71) <b>Name of Applicant :</b> <b>1)SABIC GLOBAL TECHNOLOGIES B.V.</b> Address of Applicant :Plasticslaan 1 4612 PX Bergen op Zoom Netherlands
(31) Priority Document No	:18202274.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/10/2018	<b>1)FAN, Ling</b>
(33) Name of priority country	:EPO	<b>2)SHI, Hongtao</b>
(86) International Application No	:PCT/EP2019/078184	<b>3)SOLIMAN, Maria</b>
Filing Date	:17/10/2019	<b>4)QIN, Shan</b>
(87) International Publication No	:WO 2020/083738	<b>5)CUI, Shengming</b>
(61) Patent of Addition to Application Number	:NA	<b>6)GARG, Priya</b>
Filing Date	:NA	<b>7)TACX, Jacobus, Christinus, Josephus, Franciscus</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention related to a film comprising multiple co-extruded film layers, the film having a length and a width, and a thickness defined as the dimension of the film perpendicular to the plane defined by the length and the width, wherein the film is a bi-axially oriented film comprising at least a core layer A, having a first and a second surface, and one or two sealing layer(s) B, wherein the core layer A comprises a polypropylene, and wherein the sealing layer B comprises > 50.0 wt% of a polyethylene comprising moieties derived from ethylene and moieties derived from an a-olefin comprising 4 to 10 carbon atoms, the polyethylene having a density of = 870 and = 920 kg/m<sup>3</sup> as determined in accordance with ASTM D1505 (2010), with regard to the total weight of the sealing layer B, wherein the sealing layer B directly adheres to one of the first or second surface of the core layer A. Such film allows for the production of a sealed package having a sufficiently high sealing strength at reduced sealing temperatures, also referred to as the seal initiation temperature.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022738 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LIGHTING CONTROL METHOD FOR EXCESS ELECTRICAL POWER ACCOUNTING

(51) International classification :H05B0041392000,  
B60L0001000000,  
G06F0001320600,  
G01R0022100000,  
H05B0047100000

(31) Priority Document No :18201957.0

(32) Priority Date :23/10/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/078389  
Filing Date :18/10/2019

(87) International Publication No :WO 2020/083779

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)SIGNIFY HOLDING B.V.**  
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(72)**Name of Inventor :**  
**1)PANDHARIPANDE, Ashish, Vijay**

(57) Abstract :

The invention provides a control system (1000) comprising an electrical power control system (100) for monitoring electrical power consumption by a target system (200), wherein: - the target system (200) comprises (i) one or more dimmable electronic devices (210), wherein each dimmable electronic device (210) comprises a lighting device (220), wherein the one or more dimmable electronic devices (210) are operable at a plurality of different dimming conditions thereby defining a dimming range of the one or more dimmable electronic devices (210) with a predetermined relation between the plurality of different dimming conditions and an electrical power consumption by the one or more dimmable electronic devices (210), (ii) a target control system (230) configured to control the dimming conditions of the one or more dimmable electronic devices (210), and (iii) a source of electrical power (240) configured to provide electrical power to the one or more dimmable electronic devices (210); - the electrical power control system (100) is configured to execute an electrical power control operation comprising (i) bringing the one or more dimmable electronic devices (210) consecutively at N different dimming conditions, wherein N is at least 2, (ii) sensing the respective electrical power consumptions during the N different dimming conditions, and (iii) determining in a determination stage whether or not a further electronic device (10) having deviating dimming behavior or having no dimming functionality is functionally coupled to the source of electrical power (240) based on a comparison of the sensed electrical power consumptions and the predetermined relation between the plurality of different dimming conditions and the electrical power consumption.

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022739 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LED FILAMENT ARRANGEMENT WITH HEAT SINK STRUCTURE

(51) International classification :F21K0009232000,  
F21Y0115100000,  
F21V0019000000,  
H01L0025075000,  
F21Y0107000000

(31) Priority Document No :18203060.1  
(32) Priority Date :29/10/2018  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2019/078518  
Filing Date :21/10/2019  
(87) International Publication No :WO 2020/088966  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)SIGNIFY HOLDING B.V.**  
Address of Applicant :High Tech Campus 48 5656 AE  
Eindhoven Netherlands  
(72)**Name of Inventor :**  
**1)HIKMET, Rifat, Ata, Mustafa**  
**2)VAN BOMMEL, Ties**

(57) Abstract :

A light emitting diode, LED, filament arrangement (100), comprising at least one LED filament (120) extending along a longitudinal axis, A, wherein the at least one LED filament comprises an array of a plurality of light emitting diodes (140), LEDs, and an encapsulant (145) comprising a translucent material, wherein the encapsulant at least partially encloses the plurality of LEDs. The LED filament arrangement further comprises a heat sink structure (150), wherein the encapsulant of the least one LED filament is in thermal connection with the heat sink structure for a dissipation of heat from the at least one LED filament, and wherein the heat sink structure comprises a reflective surface (160) for reflecting the incident light from the at least one LED filament.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022740 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LED LIGHTING DRIVER AND DRIVE METHOD

(51) International classification	:H02M0001000000, H02M0003335000, H05B0045370000, H01M0010420000, H02J0007000000	(71) <b>Name of Applicant :</b> <b>1)SIGNIFY HOLDING B.V.</b> Address of Applicant :High Tech Campus 48 5656 AE Eindhoven Netherlands
(31) Priority Document No	:PCT/CN2018/112467	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/10/2018	<b>1)JIN, Gaoxian</b>
(33) Name of priority country	:China	<b>2)DE HEER GALISTEO, Raimundo</b>
(86) International Application No	:PCT/EP2019/078064	<b>3)LIU, Jing</b>
Filing Date	:16/10/2019	<b>4)VELDMAN, Paul, Robert</b>
(87) International Publication No	:WO 2020/088934	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A driver is for driving a lighting load. A switch mode power converter is controlled in dependence on the input voltage, in particular so that the same current is delivered by a preset (fixed) switching mode at a first nominal operating voltage ( $V_r/2$ ) and by a feedback (dynamic) switching mode at a second nominal operating voltage ( $V_r$ ). The first operating voltage corresponds to the voltage present when two drivers are connected in series across a power input, and the second operating voltage corresponds to the voltage present when a single driver is connected.

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022741 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LIGHTING SYSTEM WITH CONNECTED LIGHT SOURCES

(51) International classification	:H05B0045200000, B60Q0001000000, H05B0045100000, F21Y0115100000, F21V0023000000	(71) <b>Name of Applicant :</b> <b>1)SIGNIFY HOLDING B.V.</b> Address of Applicant :High Tech Campus 48 5656 AE Eindhoven Netherlands
(31) Priority Document No	:18203088.2	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/10/2018	<b>1)VAN BOMMEL, Ties</b>
(33) Name of priority country	:EPO	<b>2)HIKMET, Rifat, Ata, Mustafa</b>
(86) International Application No	:PCT/EP2019/078561	
Filing Date	:21/10/2019	
(87) International Publication No	:WO 2020/088971	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A lighting system (1) is disclosed, comprising at least one first light source (L1; 3; 4) and at least one second light source (L2; 3; 4) and at least one control unit (2). The at least one control unit (2) is configured to control the at least one first light source (L1; 3; 4) and the at least one second light source (L2; 3; 4), respectively, by changing at least the luminous flux of the emitted light, between at least a first state and a second state of the at least one first light source (L1; 3; 4) and the at least one second light source (L2; 3; 4), respectively, such that, for each of the at least one first light source (L1; 3; 4) and the at least one second light source (L2; 3; 4), the luminous flux of light emitted by the light source when in the second state is lower than the luminous flux of light emitted by the light source when in the first state. Light emitted by each of the at least one first light source (L1; 3; 4) when in the second state has a lower color temperature than light emitted by the first light source (L1; 3; 4) when in the first state and light emitted by each of the at least one second light source (L2; 3; 4) when in the second state has a higher color temperature than light emitted by the second light source (L2; 3; 4) when in the first state.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022742 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ELECTRONIC CONTROLLER APPARATUS AND CONTROL METHOD

(51) International classification	:H01Q0009040000, H05B0047100000, G09G0003360000, H05B0045000000, H05B0045100000	(71) <b>Name of Applicant :</b> <b>1)SIGNIFY HOLDING B.V.</b> Address of Applicant :High Tech Campus 48 5656 AE Eindhoven Netherlands
(31) Priority Document No	:18202638.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:25/10/2018	<b>1)FATIUK, Oleksandr</b>
(33) Name of priority country	:EPO	<b>2)ILIC, Miroslav</b>
(86) International Application No	:PCT/EP2019/078661	<b>3)MILOSAVLJEVIC, Ratko</b>
Filing Date	:22/10/2019	
(87) International Publication No	:WO 2020/083876	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic controller apparatus comprises a controller circuit for controlling an external load and a power supply circuit to power the controller circuit. A switch is adapted to alternately be conductive to bypass the power supply circuit from the input or allow the power supply circuit to obtain power from the input. A linear operation of the switch is used to reduce current and voltage waveform distortion when power is being obtained from the input.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022770 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

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(54) Title of the invention : METHOD AND SYSTEM OF IDENTIFYING AND QUANTIFYING A PROTEIN

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(51) International classification	:H04L0029060000, G01N0033680000, G06Q0010060000, A61M0005172000, A61B0005145500	(71) <b>Name of Applicant :</b> <b>1)REGENERON PHARMACEUTICALS, INC.</b> Address of Applicant :777 Old Saw Mill River Road Tarrytown, New York 10591 U.S.A.
(31) Priority Document No	:62/753633	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/10/2018	<b>1)YAN, Yuetian</b>
(33) Name of priority country	:U.S.A.	<b>2)WANG, Shunhai</b>
(86) International Application No	:PCT/US2019/058759	
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/092499	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Methods and system for identifying and/or quantifying a protein are provided herein.

No. of Pages : 58 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022771 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR PRODUCING HALIDE

(51) International classification	:H05K0001030000, B01J0037080000, H01L0051560000, C04B0111000000, H01M0004139100	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-243605	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/12/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/025439	
Filing Date	:26/06/2019	
(87) International Publication No	:WO 2020/136955	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for producing a halide according to the present disclosure includes a firing step for firing a mixed material, which is a material in which LiBr and YBr<sub>3</sub> are mixed, in an inert gas atmosphere. In the firing step, the mixed material is fired at a temperature of 200°C to 650°C.

No. of Pages : 14 No. of Claims : 10



(54) Title of the invention : PADDY FIELD WORK MACHINE

(51) International classification	:E02F0009220000, F15B0011160000, E02F0003430000, A01B0063111000, A01B0063100000	(71) <b>Name of Applicant :</b> <b>1)KUBOTA CORPORATION</b> Address of Applicant :2-47, Shikitsuhigashi 1-chome, Naniwa-ku, Osaka-shi, Osaka 5568601 Japan
(31) Priority Document No	:2018-243335	(72) <b>Name of Inventor :</b> <b>1)SHIBAHARA Ai</b>
(32) Priority Date	:26/12/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/019845	
Filing Date	:20/05/2019	
(87) International Publication No	:WO 2020/136937	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem] To improve control valve operability and work clutch operability of a paddy field work machine. [Solution] This paddy field work machine is provided with a control valve 24 for supplying and exhausting operating oil to and from a hydraulic cylinder 5 to activate the hydraulic cylinder 5, and lifting/lowering linkage mechanisms 43, 44 for maintaining the work device at a set height H1 from a paddy surface G by operating the control valve 24. The paddy field work machine is also provided with a lifting/lowering actuator 56 capable of operating the control valve 24 and the work clutch 21, a human-operable manipulator 78, and a lifting/lowering control unit 101 for activating the lifting/lowering actuator 56 on the basis of an operation of the manipulator 78. The lifting/lowering control unit 101, when the manipulator 78 has been operated into an up position U2, activates the lifting/lowering actuator 56 so that the work clutch 21 is operated to a disengaged position and, with priority over the lifting/lowering linkage mechanisms 43, 44, the control valve 24 is operated to and maintained in an upward activation position.

No. of Pages : 57 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022773 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR PRODUCING HALIDES

(51) International classification	:C09K0011770000, C01B0021082000, B01J0037080000, H01M0004139300, F27D0005000000	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-243602	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/12/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/025435	
Filing Date	:26/06/2019	
(87) International Publication No	:WO 2020/136951	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for producing halides according to the present disclosure includes a firing step in which a mixed material obtained by mixing LiCl and YCl<sub>3</sub> is fired in an inert gas atmosphere. In the firing step, the mixed material is fired at 200°C to 650°C, inclusive.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022774 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : THERAPEUTIC DENDRIMER

(51) International classification :C08G0083000000,  
C08G0069100000,  
A61K0047590000,  
A61P0035000000,  
A61K0047600000  
(31) Priority Document No :2018904431  
(32) Priority Date :20/11/2018  
(33) Name of priority country :Australia  
(86) International Application No :PCT/AU2019/051274  
Filing Date :20/11/2019  
(87) International Publication No :WO 2020/102852  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)STARPHARMA PTY LTD**  
Address of Applicant :4-6 Southampton Crescent Abbotsford,  
Victoria 3067 Australia  
(72)Name of Inventor :  
**1)OWEN, David James**  
**2)KELLY, Brian Devlin**  
**3)DIETINGER, Christine Elisabet**

(57) Abstract :

Provided herein are dendrimers comprising: a core unit, five generations of building units which are lysine residues or analogues thereof, first terminal groups comprising a residue of a camptothecin active covalently attached to a diglycolyl linker group, and second terminal groups comprising a PEG group. Also provided herein are pharmaceutical compositions comprising the dendrimer, and methods and uses of the dendrimers in therapy of disorders such as cancers. Processes for making the dendrimers and intermediates are also provided.

No. of Pages : 130 No. of Claims : 58

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022777 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : STATE ANALYSIS OF AN ELECTRICAL OPERATING RESOURCE

(51) International classification	:G01R0031120000, B23K0031120000, H04W0028180000, H04B0010073000, H04Q0009000000	(71) <b>Name of Applicant :</b> <b>1)MASCHINENFABRIK REINHAUSEN GMBH</b> Address of Applicant :Falkensteinstrae 8 93059 Regensburg Germany
(31) Priority Document No	:10 2018 126 743.6	(72) <b>Name of Inventor :</b> <b>1)WINKELMANN, Erik</b>
(32) Priority Date	:26/10/2018	
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2019/079037	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084058	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to a method for analysing the state of an electrical operating resource, a test voltage is applied to the operating resource. A measurement signal is then captured at a connection point (AS) of the operating resource. Depending on the measurement signal, transmission parameters which characterize a signal transmission from a location of a partial discharge in the operating resource to the connection point (AS) are determined. At least one characteristic variable of the partial discharge is determined on the basis of the transmission parameters.

No. of Pages : 15 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022778 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CURABLE COATING COMPOSITIONS, METHODS, AND ARTICLES

(51) International classification	:C08G0077080000, C08K0005539900, C09D0183040000, C09D0183080000, C09J0007380000	(71) <b>Name of Applicant :</b> <b>1)3M INNOVATIVE PROPERTIES COMPANY</b> Address of Applicant :3M Center Post Office Box 33427 Saint Paul, Minnesota 55133-3427 U.S.A.
(31) Priority Document No	:62/771464	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/11/2018	<b>1)NIETFELD, Jon P.</b>
(33) Name of priority country	:U.S.A.	<b>2)BUCKANIN, Richard S.</b>
(86) International Application No	:PCT/IB2019/059896	<b>3)NERCISSANTZ, Ara Z.</b>
Filing Date	:18/11/2019	<b>4)AMB, Chad M.</b>
(87) International Publication No	:WO 2020/109920	<b>5)MCMAN, Steven J.</b>
(61) Patent of Addition to Application Number	:NA	<b>6)ANSELL, Kevin R.</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A curable composition including: at least one polyorganosiloxane including at least one hydrosilyl moiety (in certain embodiments, two different polyorganosiloxanes); at least one silane including hydrolyzable functionality; and at least one base selected from an amidine, a guanidine, a phosphazene, a proazaphosphatane, and a combination thereof; a method of coating such curable composition; and an article having a substrate surface with a coating formed from such method.

No. of Pages : 48 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022779 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : GALVANIZED MULTI-TUBULAR BEAM AND METHOD OF CONTINUOUSLY FORMING THE SAME

(51) International classification	:B23K0103000000, B23K0026320000, B23K0101340000, B23K0026244000, B23K0101180000	(71) <b>Name of Applicant :</b> <b>1)SHAPE CORP.</b> Address of Applicant :1900 Hayes St. Grand Haven, Michigan 49417 U.S.A.
(31) Priority Document No	:62/771843	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/11/2018	<b>1)BAAS, Douglas S.</b>
(33) Name of priority country	:U.S.A.	<b>2)MATECKI, Joseph R.</b>
(86) International Application No	:PCT/US2019/063186	<b>3)JASMAN, Shawn R.</b>
Filing Date	:26/11/2019	
(87) International Publication No	:WO 2020/112728	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A galvanized reinforcement beam is continuously formed by uncoiling a roll of galvanized sheet stock in a generally horizontal plane. Protrusions are formed at an upper surface of the sheet stock, which is then roll formed to form a tubular shape with the protrusions abutting a surface of the sheet stock to form venting gaps. The sheet stock is laser welded at the protrusions to continuously form a weld joint, where zinc oxide gas generated from the welding is permitted to escape an interior of the tubular shape through the venting gaps.

No. of Pages : 30 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022800 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS FOR PREPARING DIALKYL CARBONATE AND ALKANEDIOL

(51) International classification	:C07C0068080000, C07C0068065000, C07C0068060000, C10M0137020000, C07C0269000000	(71)Name of Applicant : <b>1)SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.</b> Address of Applicant :Carel van Bylandtlaan 30 2596 HR THE HAGUE Netherlands <b>2)SHELL OIL COMPANY</b>
(31) Priority Document No	:18213317.3	(72)Name of Inventor :
(32) Priority Date	:18/12/2018	<b>1)FISCHER, Kai, J<sup>1</sup>rgen</b>
(33) Name of priority country	:EPO	<b>2)VAN DER HEIDE, Evert</b>
(86) International Application No	:PCT/EP2019/085266	
Filing Date	:16/12/2019	
(87) International Publication No	:WO 2020/126989	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a process wherein a dialkyl carbonate stream containing an ether alkanol impurity is subjected to extractive distillation using an extraction solvent to obtain a top stream comprising dialkyl carbonate and a bottom stream comprising the extraction solvent and the ether alkanol impurity, wherein the extraction solvent is an organic compound containing one or more hydroxyl groups and one or more ester moieties and/or ether moieties. Further, the invention relates to a process for making a diaryl carbonate, comprising reacting an aryl alcohol with a stream containing a dialkyl carbonate from which stream an ether alkanol impurity has been removed in accordance with the above-described process.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022813 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SECURITY MANAGEMENT IN DISAGGREGATED BASE STATION IN COMMUNICATION SYSTEM

(51) International classification	:H04L0029060000, H04W0012040000, H04W0012000000, H04W0012080000, G06F0021620000	(71) <b>Name of Applicant :</b> <b>1)NOKIA TECHNOLOGIES OY</b> Address of Applicant :Karakaari 7 02610 Espoo Finland
(31) Priority Document No	:16/178266	(72) <b>Name of Inventor :</b>
(32) Priority Date	:01/11/2018	<b>1)NAIR, Suresh</b>
(33) Name of priority country	:U.S.A.	<b>2)CHIBA, Tsunehiko</b>
(86) International Application No	:PCT/FI2019/050753	<b>3)GODIN, Philippe</b>
Filing Date	:23/10/2019	
(87) International Publication No	:WO 2020/089517	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A reconfiguration message is received at user equipment in a communication system from a disaggregated base station with which the user equipment has a current security context established. The reconfiguration message comprises an instruction to compute a new security context based on a security domain counter value, wherein the security domain counter value represents a given security domain from a plurality of security domains supported by the disaggregated base station. The new security context is computed at the user equipment for the given security domain based on the security domain counter value. A set of security keys are derived from the new security context at the user equipment.

No. of Pages : 15 No. of Claims : 26



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022814 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DETERMINATION OF SPATIAL AUDIO PARAMETER ENCODING AND ASSOCIATED DECODING

(51) International classification	:G10L0019020000, G10L0019008000, H04B0007045600, G10L0015020000, G10L0021023200	(71) <b>Name of Applicant :</b> <b>1)NOKIA TECHNOLOGIES OY</b> Address of Applicant :Karakaari 7 02610 Espoo Finland
(31) Priority Document No	:1817807.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/10/2018	<b>1)VASILACHE, Adriana</b>
(33) Name of priority country	:U.K.	<b>2)LAITINEN, Mikko-Ville</b>
(86) International Application No	:PCT/FI2019/050704	
Filing Date	:01/10/2019	
(87) International Publication No	:WO 2020/089510	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus comprising means for:receiving values for sub-bands of a frame of an audio signal, the values comprising at least one azimuth value, at least one elevation value at least one energy ratio value and at least one spread and/or surround coherence value for each sub-band;determining a codebook for encoding at least one spread and/or surround coherence value for each sub-band based on the at least one energy ratio value and at least one azimuth value for each sub-band for a frame; discrete cosine transforming at least one vector, the at least one vector comprising the at least one spread and/or surround coherence value for a sub-band for the frame; and encoding a first number of components of the discrete cosine transformed vector based on the determined codebook.

No. of Pages : 45 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022826 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESS TO PRODUCE A POLYMER AND POLYMER

(51) International classification	:C08F0002380000, C04B0028020000, C08F0110020000, C08L0067040000, B29C0055040000	(71) <b>Name of Applicant :</b> <b>1)BOREALIS AG</b> Address of Applicant :Wagramer Strasse 17-19 1220 Vienna Austria
(31) Priority Document No	:18209289.0	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/11/2018	<b>1)GALGALI, Girish Suresh</b>
(33) Name of priority country	:EPO	<b>2)JAMIESON, John</b>
(86) International Application No	:PCT/EP2019/083111	
Filing Date	:29/11/2019	
(87) International Publication No	:WO 2020/109563	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process to produce a polymer, a corresponding polymer and a article comprising a polymer made by the process according to the invention...

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022827 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYRINGE SUITABLE FOR HYDROGEN PEROXIDE SOLUTION, AND KIT

(51) International classification	:A61M0005310000, A61M0005178000, A61M0005340000, B32B0027320000, C08L0023080000	(71) <b>Name of Applicant :</b> <b>1)KORTUC INC.</b> Address of Applicant :Shiroyama Trust Tower, 4F, 4-3-1 Toranomom, Minato-ku, Tokyo 1056004 Japan
(31) Priority Document No	:2018-215913	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/11/2018	<b>1)YAMASHITA, Shogo</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/041116	
Filing Date	:18/10/2019	
(87) International Publication No	:WO 2020/100525	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a syringe which inhibits hydrogen peroxide from decomposing. The syringe includes a part where the syringe comes into direct contact with the hydrogen peroxide solution, the material of the syringe part being a cycloolefin polymer (COP) or a cycloolefin copolymer (COC).

No. of Pages : 20 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022828 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : COOLING METHOD AND DEVICE FOR COOLING A WIRE AND CORRESPONDING WIRE-PROCESSING INSTALLATION

(51) International classification	:C21D0009573000, C21D0009520000, B21B0045020000, B21C0003140000, H05K0007200000	(71) <b>Name of Applicant :</b> <b>1)DRUIDS PROCESS TECHNOLOGY, S.L.</b> Address of Applicant :Carretera de Montmel <sup>3</sup> , 68 Pol. Ind. del Circuit 08403 Granollers Spain
(31) Priority Document No	:	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/06/2017	<b>1)P%oREZ SOLDEVILA, Raimon</b>
(33) Name of priority country	:Argentina	<b>2)AYESA MORROS, F. Javier</b>
(86) International Application No	:PCT/ES2018/070736	<b>3)BITTNER, Carlos</b>
Filing Date	:14/11/2018	
(87) International Publication No	:WO 2020/099688	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a cooling device (1) for cooling a wire (100), which comprises a first chamber (2) and a second chamber (4) for cooling, through which the wire (100) passes. The device also comprises cooling-liquid pumping means (16) for pumping the cooling liquid from the first chamber (2) to the second chamber (4) through at least one cooling-liquid inlet (12). By means of the pumping means (16) and the cooling-liquid inlet (12), a jet of cooling liquid is projected onto the path of the wire at an average speed of at least 0.6 m/s and at a distance that is between 6 and 13 times the diameter of the wire (100). Cooling is carried out in an inert gas atmosphere inside the second chamber (4). The invention also relates to a corresponding installation and method for cooling a wire.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022853 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVICE AND ASSEMBLY FOR FLIPPING CARDS AND METHOD OF USE

(51) International classification	:B65D0083040000, B60B0025220000, H02G0015013000, F04D0009000000, G03G0021200000	(71) <b>Name of Applicant :</b> <b>1)YEHUDA, Yishay</b> Address of Applicant :44 HaHida Street 8757026 Ofakim Israel
(31) Priority Document No	:262586	(72) <b>Name of Inventor :</b> <b>1)YEHUDA, Yishay</b>
(32) Priority Date	:24/10/2018	
(33) Name of priority country	:Israel	
(86) International Application No	:PCT/IL2019/051137	
Filing Date	:22/10/2019	
(87) International Publication No	:WO 2020/084610	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device (10) for flipping stacked cards from a first position to an opposite second position, the device comprising a flexible hollow cup-shaped member (12) having a base portion (13) defining a rim (14), and at least one recess (15) or aperture formed in or proximate a portion of the rim so that when the base portion is placed on a generally flat surface (16), there is formed at least one opening (17) that allows air to pass through when pressure is applied to an outer surface of the cup-shaped member

No. of Pages : 8 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022854 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR ANALYZING MUSICAL COMPOSITIONS

(51) International classification	:G11B0027280000, G10H0001000000, G10L0025480000, G10L0025780000, G10L0019000000	(71) <b>Name of Applicant :</b> <b>1)MOODAGENT A/S</b> Address of Applicant :Havnegade 27 1058 Copenhagen K Denmark
(31) Priority Document No	:18202889.4	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/10/2018	<b>1)DYRSTING, S,ren</b>
(33) Name of priority country	:EPO	<b>2)HENDERSON, Mikael</b>
(86) International Application No	:PCT/EP2019/079058	<b>3)STEFFENSEN, Peter, Berg</b>
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084070	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of determining on a computer-based system at least one representative segment of a musical composition, the method comprising providing (101) a digital audio signal (1) representing said musical composition; dividing (102) said digital audio signal (1) into a plurality of frames (2) of equal frame duration; calculating (103) at least one audio feature value for each frame by analyzing the digital audio signal (1), said audio feature being a numerical representation of a musical characteristic of said digital audio signal (1), with a numerical value equal to or higher than zero; identifying (104) at least one representative frame (3) corresponding to a maximum value of said audio feature; and determining (105) at least one representative segment (4) of the digital audio signal (1) with a predefined segment duration, the starting point of said at least one representative segment (4) being a representative frame (3).

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022855 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL SULFURIC ACID PROCESS TITANIUM OXIDE WATER WASHING PROCESS AND SYSTEM

(51) International classification	:C01G0023053000, C22B0001000000, C01G0023000000, B01J0031060000, C07C0051420000	(71) <b>Name of Applicant :</b> <b>1)SHANGHAI ANHORN ENVIRONMENTAL TECHNOLOGY CO., LTD.</b> Address of Applicant :Block B, Building 2 No. 145, Jintang Rd., Pudong District Shanghai 201201 China
(31) Priority Document No	:201811253442.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:25/10/2018	<b>1)YANG, Jizhi</b>
(33) Name of priority country	:China	<b>2)SHAN, Xianglei</b>
(86) International Application No	:PCT/CN2019/104812	<b>3)LI, Haibo</b>
Filing Date	:07/09/2019	
(87) International Publication No	:WO 2020/082916	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a novel sulfuric acid process titanium oxide water washing process and system. Said process comprises: phase separation of hydrolysis materials: performing phase separation on hydrolysis materials to obtain a metatitanic acid slurry and a clean liquid phase waste acid; slurry film washing: washing the metatitanic acid slurry with water to remove impurity iron ions in the metatitanic acid slurry; and washing water treatment: treating the discharged washing water obtained after washing the slurry film to intercept impurity iron ions, the phase separation of hydrolysis materials, the slurry film washing, and the washing water treatment all being performed in a closed environment. The novel sulfuric acid process titanium oxide water washing process and system provided in present invention omit bleaching and reduction processes of the traditional process, and enable the washing process to be done in one run, being more concise, efficient, energy-saving and environmental friendly than the traditional process. The impurity iron content in a discharged process product is lower, and there is no need to add agents such as a bleaching agent and sulfuric acid, and at the same time, the recycling of washing water is realized, the production cost is reduced, and the discharge amount of the three wastes is reduced.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022913 A

(19) INDIA

(22) Date of filing of Application :22/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONFIGURATION DEVICE

(51) International classification	:H01L0025000000, A61B0017340000, H01L0023552000, H04L0029080000, B63B0034500000	(71) <b>Name of Applicant :</b> <b>1)HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.</b> Address of Applicant :10300 Energy Drive Spring, Texas 77389 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NOTTINGHAM, Kyle James</b>
(33) Name of priority country	:NA	<b>2)FREDERICKSON, Matthew</b>
(86) International Application No	:PCT/US2019/027461	<b>3)SHELTON, Gerold Keith</b>
Filing Date	:15/04/2019	
(87) International Publication No	:WO 2020/214142	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An example configuration device can include a connection cable to be coupled to a port of a device positioned within a device package, wherein the connection cable is to provide electrical power to the device positioned within the device package and provide communication between the configuration device and the device positioned within the device package, and a computing device comprising instructions to: activate the device positioned within the device package through the connection cable, format the device positioned within the device package through the connection cable, and deactivate the device positioned within the device package through the connection cable.

No. of Pages : 23 No. of Claims : 15



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022916 A

(19) INDIA

(22) Date of filing of Application :22/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONFIGURATION ADJUSTMENT METHOD AND APPARATUS, ELECTRONIC DEVICE, AND COMPUTER READABLE STORAGE MEDIUM

(51) International classification	:H04W0052020000, H04W0036300000, H04W0028020000, H04W0036080000, H04L0029080000	(71) <b>Name of Applicant :</b> <b>1)BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.</b> Address of Applicant :No.018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District Beijing 100085 China
(31) Priority Document No	:	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/06/2017	<b>1)HONG, Wei</b>
(33) Name of priority country	:Argentina	
(86) International Application No	:PCT/CN2018/112893	
Filing Date	:31/10/2018	
(87) International Publication No	:WO 2020/087321	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A configuration adjustment method, comprising: in cases where the temperature of a terminal is higher than a preset temperature, determining a target service, in which the speed of generating heat is higher than a first preset speed, among services running on the terminal (S11); sending information about the target service to a base station (S12); and reducing wireless transmission configuration for the target service according to a received first adjustment command for the target service from the base station (S13). According to said method, after receiving the first adjustment command sent by the base station, the wireless transmission configuration for the target service can be reduced according to the first adjustment command, so that the terminal, when the temperature of the terminal is high, can reduce the temperature thereof as soon as possible by reducing the wireless transmission configuration for the target service in which the speed of generating heat is high, so as to avoid the safety problem caused by self-overheating, and ensuring the normal operation of the terminal.

No. of Pages : 37 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022992 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND DEVICE FOR TRANSMITTING RANDOM ACCESS INDICATION INFORMATION

(51) International classification	:H04W0074080000, H04W0074000000, G06F0011070000, H04W0004700000, H04L0005000000	(71) <b>Name of Applicant :</b> <b>1)BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.</b> Address of Applicant :No.018, Floor 8, Building 6, Yard 33 Middle Xierqi Road, Haidian District Beijing 100085 China
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)HONG, Wei</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/CN2018/113155	
Filing Date	:31/10/2018	
(87) International Publication No	:WO 2020/087380	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method and a device for transmitting random access indication information. Said method comprises: generating indication information about random access, the indication information being used to indicate the trigger reason for using a two-step contention random access; and broadcasting a system message to user equipment, the system message comprising the indication information.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022995 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

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(54) Title of the invention : COMPOSITIONS AND METHODS FOR NHEJ-MEDIATED GENOME EDITING

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(51) International classification	:C12N0015100000, C12N0015110000, C12N0009220000, C12N0015113000, C12N0015900000	(71) <b>Name of Applicant :</b> <b>1)CRISPR THERAPEUTICS AG</b> Address of Applicant :Baarestrasse 14 Zug Switzerland <b>2)BAYER HEALTHCARE LLC</b>
(31) Priority Document No	:62/752959	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/10/2018	<b>1)COST, Gregory J.</b>
(33) Name of priority country	:U.S.A.	<b>2)UENISHI, Gene I.</b>
(86) International Application No	:PCT/US2019/058917	
Filing Date	:30/10/2019	
(87) International Publication No	:WO 2020/092611	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

The present application relates to compositions and methods for genome editing in cells by homology-independent mechanisms, in particular for genome editing in cells that lack the machinery necessary for repair by homology-dependent mechanisms.

No. of Pages : 118 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022996 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DRY TRANSFORMER

(51) International classification :H01F0027300000,  
B61L0015000000,  
H01F0027280000,  
H01F0030120000,  
H02K0007180000

(31) Priority Document No :18209219.7

(32) Priority Date :29/11/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/078642  
Filing Date :22/10/2019

(87) International Publication No :WO 2020/108867

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ABB POWER GRIDS SWITZERLAND AG**  
Address of Applicant :Bruggerstrasse 72 5400 Baden  
Switzerland

(72)Name of Inventor :  
**1)WANG, Yong**  
**2)M-NIG, Wolfgang**  
**3)CORNELIUS, Frank**  
**4)TEPPER, Jens**

(57) Abstract :

A dry transformer on or under or in a vessel or means of transportation, in particular a rail car (8) or power car of a train or a ship, comprising at least one core (1) and at least one winding (2), wherein the winding (2) surrounds the core (1) and wherein the core (1) and the winding (2) are parts of a coil (3), characterized in that the coil (3) and/ or the core (1) and/ or the winding (2) are mechanically connected to an outer support structure (4) by at least one strut (5a-f), achieves the object to create a transformer, which is able to master the required typical dynamic loads in at least one direction in transportation applications and particular railway applications.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022997 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TREATMENT OF DRUG RESISTANT HYPERTENSION ASSOCIATED WITH IMPAIRED LEFT VENTRICULAR FUNCTION AND BRADYCARDIA USING A CARDIAC PACEMAKER

(51) International classification	:A61N0001365000, A61B0005021000, A61N0001375000, A63B0071060000, A61N0001050000	(71) <b>Name of Applicant :</b> <b>1)BURNAM, Michael</b> Address of Applicant :124 Manzanita St. Ashland, Oregon 97520 U.S.A. <b>2)GANG, Eli</b>
(31) Priority Document No	:62/757559	(72) <b>Name of Inventor :</b>
(32) Priority Date	:08/11/2018	<b>1)BURNAM, Michael</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/059703	
Filing Date	:04/11/2019	
(87) International Publication No	:WO 2020/096982	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The illustrated embodiments include an apparatus having a programmable, implantable pacemaker with a controllable pacing rate; and a blood pressure monitoring device having an output communicated to the pacemaker. The pacemaker selectively and automatically modulates pacing rate in response to monitored blood pressure to reduce hypertensive blood pressure in a patient or treatment for DCHF (HPpEF). The embodiments also include a method for operating a pacing device to treat drug resistant hypertension which includes the steps of monitoring blood pressure; and controlling rate modulation in the pacing device in response to the monitored blood pressure to selectively prevent excessive pacing to reduce mean arterial blood pressure by either inhibiting rate modulation in the pacing device or by changing rate modulation parameters.

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022998 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

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(54) Title of the invention : METHOD AND SYSTEM FOR TREATING IRRIGATION WATER

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(51) International classification	:A01G0025160000, A01G0025000000, E02B0011000000, B29C0048080000, A01G0025090000	(71) <b>Name of Applicant :</b> <b>1)FLOW-TECH SYSTEMS, LLC.</b> Address of Applicant :5594 N. Hollywood Ave. #202 Whitefish Bay, Wisconsin 53217 U.S.A.
(31) Priority Document No	:62/749849	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/10/2018	<b>1)MEYER, Mark</b>
(33) Name of priority country	:U.S.A.	<b>2)RIHOVSKY, George</b>
(86) International Application No	:PCT/US2019/057837	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/086831	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Embodiments of the present invention are directed to methods and systems for treating irrigation water by introducing a propagating electromagnetic field into the irrigation water as it flows through an irrigation system. The treatments described herein may have a variety of beneficial effects on the water, including a significant increase in the percentage of the water that is maintained in the root zone of a given crop as plant-available water and the essential mineral, e.g. calcium and/or magnesium, uptake of that crop.

No. of Pages : 32 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147022999 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESSES, METHODS, AND SYSTEMS FOR CHEMO-MECHANICAL CELLULAR EXPLOSION AND SOLID AND LIQUID PRODUCTS MADE BY THE SAME

(51) International classification	:C08L0089000000, A61K0031436000, C04B0028020000, D21C0009000000, D21F0009000000	(71) <b>Name of Applicant :</b> <b>1)WAGLER, Timothy</b> Address of Applicant :201 Belfry Lane West Lafayette, Indiana 47906 U.S.A. <b>2)D'ANGELO, Lihong L.</b> <b>3)GUNN, Chester</b>
(31) Priority Document No	:62/749919	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/10/2018	<b>1)WAGLER, Timothy</b>
(33) Name of priority country	:U.S.A.	<b>2)D'ANGELO, Lihong L.</b>
(86) International Application No	:PCT/US2019/057943	<b>3)GUNN, Chester</b>
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/086900	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a process, comprising: combining one or more additives with a feedstock to obtain a first mixture, the feedstock comprising a fibrous material and water, the fibrous material comprising lignin, cellulose, and hemicellulose; and conditioning the first mixture to obtain a liquid product and a dry pulp product. Also disclosed herein are condition processes and machines for use with the same. Also disclosed herein are liquid products, dry pulp products, and fibrous pellets made by the disclosed processes, and methods of using the same.

No. of Pages : 48 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023000 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : RADIAL OR AXIAL-RADIAL CHEMICAL REACTOR WITH A FINE CATALYST

(51) International classification	:B01J0008020000, B01J0008000000, C01C0001040000, B01J0035000000, B01J0035020000	(71) <b>Name of Applicant :</b> <b>1)CASALE SA</b> Address of Applicant :Via Pocobelli 6 6900 Lugano Switzerland
(31) Priority Document No	:18203181.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/10/2018	<b>1)PANZA, Sergio</b>
(33) Name of priority country	:EPO	<b>2)BIASI, Pierdomenico</b>
(86) International Application No	:PCT/EP2019/077019	<b>3)FILIPPI, Ermanno</b>
Filing Date	:07/10/2019	
(87) International Publication No	:WO 2020/088886	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Reactor (1) for catalytic chemical reactions comprising a catalyst bed (3) with an annular-cylindrical form crossed by a radial flow or mixed axial-radial flow, wherein the bed is delimited by cylindrical walls (4, 5) made gas-permeable by means of slits (10) and the catalyst bed is formed by particles of catalyst with a nominal minimum size (d ) such that:the ratio between a transverse dimension of the slits and the nominal minimum size of the particles of catalyst is smaller than or equal to 0.6; the catalyst bed contains no more than 3% by weight of particles with an actual size smaller than said nominal size.

No. of Pages : 9 No. of Claims : 11



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023002 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR INSTALLING A CONVEYOR CHAIN FOR A PALLET BELT OF A MOVING WALKWAY

(51) International classification :B65G0017060000,  
B66B0023020000,  
B66B0023100000,  
B65G0017080000,  
B65G0019240000

(31) Priority Document No :18208432.7

(32) Priority Date :27/11/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/079258  
Filing Date :25/10/2019

(87) International Publication No :WO 2020/108895

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)INVENTIO AG**

Address of Applicant :Seestrasse 55 6052 Hergiswil  
Switzerland

(72)Name of Inventor :

**1)PRAXMARER, Dominik**

**2)KLEWEIN, Gerhard**

**3)STREIBIG, Kurt**

(57) Abstract :

The invention relates to a method for installing a conveyor chain (5) for a pallet belt (3) of a moving walkway (1) and to a conveyor chain (5). Provided elongate attachment elements (39) for fastening pallets (7) are coupled to one another and to chain links (27) coupled to one another in a coupling process such that (i) the attachment elements (39) are arranged one behind the other parallel to the extension direction (17) of the conveyor chain (5), (ii) each of the attachment elements (39) is coupled at a first end (41) to an associated first one of the two-part chain pins (37) and is coupled at a second end (43) to an associated second one of the two-part chain pins (37), wherein an attachment element separation distance (T2) between the first and second two-part chain pins (37) is an integral multiple of the chain separation distance (T1).

No. of Pages : 32 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023003 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DETERMINATION OF THE POSITION OF AN ELEVATOR CAR IN AN ELEVATOR SHAFT

(51) International classification	:B66B0001340000, G01B0011000000, B66B0003000000, B66B0001460000, B66B0011020000	(71) <b>Name of Applicant :</b> <b>1)INVENTIO AG</b> Address of Applicant :Seestrasse 55 6052 Hergiswil Switzerland
(31) Priority Document No	:18208556.3	(72) <b>Name of Inventor :</b> <b>1)STUDER, Christian</b>
(32) Priority Date	:27/11/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/082183	
Filing Date	:22/11/2019	
(87) International Publication No	:WO 2020/109151	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A measurement system (3) is provided in an elevator system (1), in addition to an elevator car (6), an elevator controller (12), and a transferring device (20) which is designed to transfer electrical energy and/or information between the elevator car (6) and the elevator controller (12). The measurement system (3) has a transmitter (2) and a detection device (8) which is separated from the transmitter (2) by an air path and can be positioned remotely. The detection device (8) receives a measurement signal emitted by the transmitter (2) in the form of electromagnetic radiation via the air path and converts said signal into an electrical signal. The transmitter (2) receives the electrical signal via the transferring device (20), uses the electrical signal to determine a propagation time of the measurement signal via the air path and uses the propagation time to determine the distance (d) between the transmitter (2) and the elevator car (6).

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023004 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BOOM MOUNTED SPRAY NOZZLE ASSEMBLY WITH MULTI CHECK VALVE COMPACT DESIGN

(51) International classification	:B05B0007040000, A01M0007000000, B05B0015658000, B05B0001300000, B05B0001200000
(31) Priority Document No	:62/753768
(32) Priority Date	:31/10/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/059023
Filing Date	:31/10/2019
(87) International Publication No	:WO 2020/092686
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)SPRAYING SYSTEMS CO.**

Address of Applicant :North Avenue and Schmale Road P.O.  
Box 7900 Wheaton, Illinois 60187-7901 U.S.A.

(72)Name of Inventor :

**1)PRICE, Trevor**

**2)WINTER, Tj**

**3)ARENSEN, Marc**

**4)GOULD, Rich**

(57) Abstract :

A liquid spraying system having an elongated liquid supply boom and a plurality of spray nozzle assemblies. The spray nozzle assemblies have a compact design with a nozzle body having a liquid inlet and a first spray nozzle carrying liquid outlet section on opposite upper and lower sides, second and third spray nozzle carrying liquid outlet sections disposed in transverse relation to the supply boom; and first and second check valve supporting sections disposed parallel to the liquid supply boom. A first of check valves is operable for controlling liquid flow from the supply boom to one or both of the second and third spray nozzles, and a second check valve is operable for controlling liquid flow from said liquid inlet to said first spray nozzle. The illustrated check valves are operable in response to the pressure of the supply liquid.

No. of Pages : 8 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023005 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

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(54) Title of the invention : PARTICLE FILTERS AND SYSTEMS INCLUDING THEM

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(51) International classification	:B01D0046000000, B01D0035020000, B01D0046240000, B01D0046100000, H01L0021670000	(71) <b>Name of Applicant :</b> <b>1)PERKINELMER HEALTH SCIENCES CANADA, INC.</b> Address of Applicant :501 Rowntree Dairy Rd Woodbridge, Ontario L4L 8H1 Canada
(31) Priority Document No	:62/750092	(72) <b>Name of Inventor :</b> <b>1)BADIEI, Hamid</b>
(32) Priority Date	:24/10/2018	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IB2019/059137	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084568	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Certain configurations are provided of a particle filter that can be used with a vacuum pump. In some examples, the particle filter is configured to remove particles in a fluid stream prior to the fluid stream being provided to an inlet of the vacuum pump. In some instances, the particle filter may remove the particles without using any filtration media. The particle filter may be designed to permit emptying or removal of filtered particles without breaking a vacuum.

No. of Pages : 27 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023006 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM MODEL AND ARCHITECTURE FOR MOBILE INTEGRATED ACCESS AND BACKHAUL IN ADVANCED NETWORKS

(51) International classification :H04W0084040000,  
H04B0007155000,  
H04W0088040000,  
G08C0017020000,  
H05B0047100000

(31) Priority Document No :62/773881

(32) Priority Date :30/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/058986  
Filing Date :31/10/2019

(87) International Publication No :WO 2020/112295

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)AT&T INTELLECTUAL PROPERTY I, L.P.**

Address of Applicant :675 W. Peachtree Street Suite 4000  
Atlanta, Georgia 30308 U.S.A.

(72)Name of Inventor :

**1)GHOSH, Arunabha**

**2)MAJMUNDAR, Milap**

**3)NOVLAN, Thomas**

(57) Abstract :

Facilitating operation and support of mobile relays based on an integrated access and backhaul concept for advanced networks (e.g., 4G, 5G, 6G, and beyond) is provided. An embodiment relates to a communication network architecture that can comprise a control plane architecture of a relay node device. The control plane architecture can comprise a star-type architecture. Further, the communication network architecture can comprise a user plane architecture of the relay node device. The user plane architecture can be separated from (or independent of) the control plane architecture. Further, the user plane architecture can comprise a multi-hop architecture. The relay node device can be configured to operate according to a fifth generation wireless network communication protocol, or other advanced communication protocols.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023007 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

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(54) Title of the invention : SAMPLE VIALS, RACK MOUNTS AND SAMPLING DEVICES USING THEM

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(51) International classification	:A61J0001200000, B01F0013080000, H05K0007140000, B01L0009000000, B01F0015000000	(71) <b>Name of Applicant :</b> <b>1)PERKINELMER HEALTH SCIENCES CANADA, INC</b> Address of Applicant :501 Rowntree Dairy Rd Woodbridge, Ontario L4L 8H1 Canada
(31) Priority Document No	:62/750101	(72) <b>Name of Inventor :</b> <b>1)BADIEI, Hamid</b>
(32) Priority Date	:24/10/2018	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IB2019/059138	
Filing Date	:24/10/2019	
(87) International Publication No	:WO 2020/084569	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Auto sampler rack mounts and fluid vials that can be used with them are described. In some configurations, the rack mount can be configured to spin each fluid vial rotationally to assist in mixing or stirring of fluid in the vial and/or to maintain fluid homogeneity. If desired, the fluid vial may include one or more internal features to assist in the mixing or stirring.

No. of Pages : 22 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023008 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INSULATOR FOR A MEDIUM- OR HIGH-VOLTAGE GAS-INSULATED SWITCHGEAR

(51) International classification :H02B0013035000,  
H02G0005060000,  
B29D0099000000,  
H01T0013440000,  
F16J0009200000

(31) Priority Document No :18208583.7

(32) Priority Date :27/11/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/082755  
Filing Date :27/11/2019

(87) International Publication No :WO 2020/109392

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ABB POWER GRIDS SWITZERLAND AG**  
Address of Applicant :Bruggerstrasse 72 5400 Baden  
Switzerland

(72)Name of Inventor :  
**1)PLATEK, Robert**  
**2)BEDNAROWSKI, Dariusz**  
**3)ZANETTI, Alberto**  
**4)ELSER, Pierre**  
**5)MALINOWSKI, Lukasz**

(57) Abstract :

An insulator (100) for a gas-insulated device is provided, comprising an injection-molded insulator disc (101) and a conductor (102), wherein the insulator disc (101) comprises a first circumferential surface (103), a second circumferential surface (104) disposed radially outwards from the first circumferential surface (103), and a web portion (105) connecting the first circumferential surface (103) and the second circumferential surface (104), characterized in that the web portion (105) comprises a wave structure, the web portion (105) having an inner wave profile (106) at the first circumferential surface (103) and an outer wave profile (107) at the second circumferential surface (104), and the inner wave profile (106) and the outer wave profile (107) have a radius of curvature of 2 mm or more and 10,000 mm or less. Further aspects provide a gas-insulated switchgear comprising at least one insulator (100) according to the above, use of the insulator (100) according to the above in a medium-voltage or high-voltage switchgear, and a method for production of the insulator (100) according to the above.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023020 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INTERACTION BETWEEN INTRA BLOCK COPY MODE AND INTER PREDICTION TOOLS

(51) International classification	:H04N0019176000, H04N0019700000, H04N0019593000, H04N0019107000, H04N0019105000	(71) <b>Name of Applicant :</b> <b>1)BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.</b> Address of Applicant :Room B-0035, 2/F, No.3 Building No.30, Shixing Road, Shijingshan District Beijing 100041 China
(31) Priority Document No	:PCT/CN2018/118167	<b>2)BYTEDANCE INC.</b>
(32) Priority Date	:29/11/2018	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:China	<b>1)ZHANG, Kai</b>
(86) International Application No	:PCT/CN2019/122183	<b>2)ZHANG, Li</b>
Filing Date	:29/11/2019	<b>3)LIU, Hongbin</b>
(87) International Publication No	:WO 2020/108649	<b>4)WANG, Yue</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relate to interaction between intra block copy mode and inter prediction tools A method for video processing is provided, including: determining that an Intra-Block-Copy (IBC) mode is applied to a current video block of a video, wherein in the IBC mode, at least one reference picture used by the current video block is a current picture where the current video block is located in; making a decision regarding a disabling of a specific coding mode for the current block; performing, based on the decision, a conversion between the current video block and the bitstream representation; wherein the specific coding mode uses a motion vector and a non-current picture to derive a prediction of a video block.

No. of Pages : 60 No. of Claims : 68



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023058 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SECURING SYSTEMS EMPLOYING ARTIFICIAL INTELLIGENCE

(51) International classification	:G06F0021620000, A61B0001000000, H04J0011000000, H04W0052320000, G11C0013000000	(71) <b>Name of Applicant :</b> <b>1)INTEL CORPORATION</b> Address of Applicant :2200 Mission College Boulevard Santa Clara, California 95054 U.S.A.
(31) Priority Document No	:62/786941	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/12/2018	<b>1)POGORELIK, Oleg</b>
(33) Name of priority country	:U.S.A.	<b>2)NAYSHTUT, Alex</b>
(86) International Application No	:PCT/US2019/028687	<b>3)BEN-SHALOM, Omer</b>
Filing Date	:23/04/2019	<b>4)KLIMOV, Denis</b>
(87) International Publication No	:WO 2020/142110	<b>5)KELLERMANN, Raizy</b>
(61) Patent of Addition to Application Number	:NA	<b>6)BARNHART-MAGEN, Guy</b>
Filing Date	:NA	<b>7)SUKHOMLINOV, Vadim</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Techniques and apparatuses to harden AI systems against various attacks are provided. Among the different techniques and apparatuses, is provided, techniques and apparatuses that expand the domain for an inference model to include both visible classes and well as hidden classes. The hidden classes can be used to detect possible probing attacks against the model.

No. of Pages : 142 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023061 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BITUMINOUS COMPOSITION SOLID AT AMBIENT TEMPERATURE

(51) International classification :C08L0095000000,  
C08K0005092000,  
A61K0031426000,  
B22F0001020000,  
E04D0005020000

(31) Priority Document No :18306652.1

(32) Priority Date :10/12/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/083969  
Filing Date :06/12/2019

(87) International Publication No :WO 2020/120313

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)TOTAL MARKETING SERVICES**  
Address of Applicant :24 Cours Michelet 92800 PUTEAUX  
France

(72)**Name of Inventor :**  
**1)VINCENT, Rgis**

(57) Abstract :

The invention concerns a bituminous composition comprising at least one bitumen base, at least one compound of general formula (I): Ar1-R1-Ar2 (I), and at least one compound of general formula (II): R2-(NH)<sub>n</sub>CONH-X-(NHCO)<sub>p</sub>(NH)<sub>n</sub>-R'2 (II). The invention also concerns a process for the preparation of said bituminous composition.

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023073 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CENTRALIZED AUTHENTICATION AND AUTHORIZATION WITH CERTIFICATE MANAGEMENT

(51) International classification :H04L0029060000,  
H04L0009320000,  
G06Q0020400000,  
G06F0021570000,  
G06Q0020380000

(31) Priority Document No :16/429631

(32) Priority Date :03/06/2019

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/043783  
Filing Date :26/07/2019

(87) International Publication No :WO 2020/247000

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)INTUIT INC.**

Address of Applicant :2700 Coast Avenue Mountain View,  
CA 94043 U.S.A.

(72)Name of Inventor :

**1)KESELMEN, Gleb**

**2)SHEFFER, Yaron**

**3)ROOZ, Michael**

(57) Abstract :

At least one processor of a central authority separate from a computing process may establish a first trust relationship between the computing process and a central authority separate from the computing process. The establishing may include authenticating the computing process, which may include providing a signed token to the computing process, receiving a request for the certificate from the computing process including the signed token and policy ID data, determining that the computing process is eligible for the certificate according to a policy that associates the certificate with the policy ID data, and validating the signed token. In response to the establishing, the at least one processor may obtain the certificate. The certificate may be signed by a third party certificate authority with which the central authority has a second trust relationship separate from the first trust relationship. The at least one processor may provide the certificate to the computing process.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023079 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SOLID ELECTROLYTE AND BATTERY USING SAME

(51) International classification	:H01M0010056200, H01M0010052500, H01M0010052000, H01M0010056800, C01D0015000000	(71) <b>Name of Applicant :</b> <b>1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.</b> Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 5406207 Japan
(31) Priority Document No	:2018-243602	(72) <b>Name of Inventor :</b>
(32) Priority Date	:26/12/2018	<b>1)</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/042908	
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/137156	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a solid electrolyte having high lithium ion conductivity. The solid electrolyte of the present disclosure contains Li, M, and X. M includes at least one element selected from the group consisting of Gd, Tb, and Sm. X represents at least one element selected from the group consisting of Cl, Br, and I.

No. of Pages : 32 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023080 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND DEVICE FOR OUTPUTTING AN AUDIBLE VOICE MESSAGE IN A LIFT SYSTEM

(51) International classification	:G10L0013080000, G10L0013033000, G10L0013000000, G06F0040580000, G10L0013040000
(31) Priority Document No	:18208438.4
(32) Priority Date	:27/11/2018
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2019/080398
Filing Date	:06/11/2019
(87) International Publication No	:WO 2020/108936
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)INVENTIO AG**

Address of Applicant :Seestrasse 55 6052 Hergiswil  
Switzerland

(72)Name of Inventor :

**1)CARRIERO, Stefano**

(57) Abstract :

The invention relates to a method and a device for outputting an audible voice message in a lift system (1). The method has at least the following steps: transmitting the content of the voice message as a text file (35) to be output, via the Internet (23) to a web-based text-to-speech service provider (25); receiving an audio file (37) from the text-to-speech service provider (25) via the Internet (23), the audio file (37) having been created by the text-to-speech service provider (25) on the basis of the transmitted text file (35) to be output; and outputting the audio file (37) in the lift system (1) as the audible voice message. If necessary, the text file (35) to be output can be obtained by translating a source language text file (39) into a target language beforehand with the aid of a translation service provider (27). The targeted use of online service providers (25, 27) allows the outlay needed to realise voice announcements in a lift system (1) at different use locations with different languages to be greatly reduced.

No. of Pages : 17 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023081 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MULTIPLE UPLINK CARRIERS IN A CELL DEPLOYED IN UNLICENSED SPECTRUM

(51) International classification :H04W0072040000,  
H04W0072120000,  
H04L0005000000,  
H04W0016140000,  
H04W0074080000

(31) Priority Document No :62/754415

(32) Priority Date :01/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/059193  
Filing Date :31/10/2019

(87) International Publication No :WO 2020/092787

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)GOOGLE LLC**

Address of Applicant :1600 Amphitheatre Parkway Mountain View, CA 94043 U.S.A.

(72)Name of Inventor :

**1)YE, Shiangrung**

(57) Abstract :

Processing hardware (134) in a base station (104) can implement a method for configuring uplink communications in an unlicensed spectrum. The method includes selecting a first uplink carrier and a second uplink carrier for a cell to operate as a normal uplink carrier (NUL) and a supplementary uplink carrier (SUL), respectively, with at least one of the NUL or the SUL operating within one or more unlicensed bands the user device supports (704). The method further includes transmitting, to the user device, configuration data for the NUL and the SUL(706), including transmitting an indication that one of the carriers is the NUL, and the other carrier is the SUL, such that the user device is configured to initially transmit via the NUL. The method also includes receiving uplink data via the second uplink carrier upon the user device switching from the first uplink carrier to the second uplink carrier (712).

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023082 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SEMI-AROMATIC POLYAMIDE RESIN AND METHOD FOR MANUFACTURING SAME

(51) International classification :C08G0069360000,  
C08L0077060000,  
C08K0007140000,  
C08L0077000000,  
C08L0023080000

(31) Priority Document No :2018-234551

(32) Priority Date :14/12/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/048666  
Filing Date :12/12/2019

(87) International Publication No :WO 2020/122170

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)TOYOBO CO., LTD.**  
Address of Applicant :2-8, Dojima Hama 2-chome, Kita-ku,  
Osaka-shi, Osaka 5308230 Japan

(72)**Name of Inventor :**  
**1)HATANAKA Yosuke**  
**2)HAYASHI Syo**  
**3)TAMATSUSHIMA Makoto**

(57) Abstract :

The present invention provides a semi-aromatic polyamide resin that has exceptional heat resistance and thermal discoloration resistance, is also capable of suppressing mold contamination by out-gas during melt molding, and has exceptional molten fluidity, gelling characteristics, and mechanical properties, wherein: the semi-aromatic polyamide resin contains a structural unit obtained from hexamethylenediamine and terephthalic acid, and a structural unit obtained from 11-aminoundecanoic acid or undecanelactam; the relative viscosity (RV) is within the range of 2.65-3.50; and the relationship of the amino end-group concentration (AEG), carboxy end-group concentration (CEG), and end concentration (EC) of amino end-groups blocked by monocarboxylic acid satisfies a specific formula.

No. of Pages : 40 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023083 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEFENSE AGAINST SPECULATIVE SIDE-CHANNEL ANALYSIS OF A COMPUTER SYSTEM

(51) International classification :G06F0009300000,  
G06F0012140000,  
G06F0012100900,  
G06F0012102700,  
G06F0012100000

(31) Priority Document No :16/236117

(32) Priority Date :28/12/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/063994  
Filing Date :02/12/2019

(87) International Publication No :WO 2020/139517

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)INTEL CORPORATION**

Address of Applicant :2200 Mission College Boulevard Santa Clara, California 95054 U.S.A.

(72)Name of Inventor :

**1)DURHAM, David M.**

(57) Abstract :

Embodiments of methods and apparatuses for defending against speculative side-channel analysis on a computer system are disclosed. In an embodiment, a processor includes a decoder, a cache, address translation circuitry, a cache controller, and a memory controller. The decoder is to decode an instruction. The instruction is to specify a first address associated with a data object, the first address having a first memory tag. The address translation circuitry is to translate the first address to a second address, the second address to identify a memory location of the data object. The comparator is to compare the first memory tag and a second memory tag associated with the second address. The cache controller is to detect a cache miss associated with the memory location. The memory controller is to, in response to the comparator detecting a match between the first memory tag and the second memory tag and the cache controller detecting the cache miss, load the data object from the memory location into the cache. Other embodiments include encryption of memory tags together with addresses.

No. of Pages : 48 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023096 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : BITUMINOUS COMPOSITION SOLID AT AMBIENT TEMPERATURE

(51) International classification	:C08L0095000000, C08K0005092000, C04B0026260000, C09D0195000000, C04B0111000000	(71) <b>Name of Applicant :</b> <b>1)TOTAL MARKETING SERVICES</b> Address of Applicant :24 Cours Michelet 92800 PUTEAUX France
(31) Priority Document No	:18306653.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:10/12/2018	<b>1)VINCENT, Rgis</b>
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/083972	
Filing Date	:06/12/2019	
(87) International Publication No	:WO 2020/120314	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a bituminous composition comprising at least one bitumen base, at least one compound of general formula Ar1-R1-Ar2 (I), and at least one compound of general formula R2-(NH)<sub>n</sub>CONH-X-(NHCO)<sub>p</sub>(NH)<sub>n</sub>-R'2 (II). The invention relates to the use of this composition as road binder, notably for the preparation of bituminous mixes. The invention also relates to a process for the preparation of bituminous mixes.

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023097 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : EDARAVONE SUSPENSION FOR ORAL ADMINISTRATION

(51) International classification	:A61K0031415200, A61K0045060000, A61M0005315000, A61P0025280000, A61B0006100000	(71) <b>Name of Applicant :</b> <b>1)MITSUBISHI TANABE PHARMA CORPORATION</b> Address of Applicant :3-2-10, Dosho-machi, Chuo-ku, Osaka-shi, Osaka 5418505 Japan
(31) Priority Document No	:2018-207646	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)HAYAMA, Tetsuo</b>
(33) Name of priority country	:Japan	<b>2)TAKAHASHI, Tomohiro</b>
(86) International Application No	:PCT/JP2019/043013	<b>3)OMURA, Tomoyuki</b>
Filing Date	:01/11/2019	<b>4)HAYASHI, Kouji</b>
(87) International Publication No	:WO 2020/091036	<b>5)MATSUDA, Munetomo</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MIYAZAWA, Tadashi</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is an edaravone suspension for oral administration that has excellent bioavailability. It is expected that burden on ALS patients and care workers can be reduced thereby.

No. of Pages : 40 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023099 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ELECTROSTATIC SPRAY DRYER SYSTEM

(51) International classification	:F26B0003120000, B01D0001180000, B01J0002040000, F26B0001000000, B05B0005030000	(71) <b>Name of Applicant :</b> <b>1)SPRAYING SYSTEMS CO.</b> Address of Applicant :North Avenue and Schmale Road P.O. Box 7900 Wheaton, Illinois 60187-7901 U.S.A.
(31) Priority Document No	:62/754691	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)SZCZAP, Joseph</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/059085	
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/092721	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electrostatic spray dryer for drying liquid into powder including an elongated cylindrical drying chamber having an electrostatic spray nozzle at an upper end and a powder collection vessel at a lower end. The powder collection vessel includes a removable and replaceable filter collections sock made of filter material for receiving and collecting dried powder from the drying chamber. For cleaning residual powder from an inside wall of the drying chamber, a scraper member is provided that is coupled by magnetic attraction to a manually removable driver on the external surface of the wall.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023100 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MASONRY COMPOSITIONS COMPRISING CHEMICALLY TREATED CARBON PIGMENTS

(51) International classification :C08K0003040000,  
C09C0001560000,  
C09D0011324000,  
C09D0007620000,  
C09D0007410000

(31) Priority Document No :62/753462  
(32) Priority Date :31/10/2018  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2019/059158  
Filing Date :31/10/2019  
(87) International Publication No :WO 2020/092765  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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Massachusetts 02210 U.S.A.

(72)**Name of Inventor :**  
**1)HERRERA FERNANDEZ, Miguel A.**  
**2)ZHANG, Qingling**  
**3)NGUYEN, Lang H.**  
**4)LAROCHELLE RICHARD, Lynne K.**  
**5)DUPNIK, Benjamin**  
**6)MATHEW, John**  
**7)BURGER, Koenraad C.J.**  
**8)MOESER, Geoffrey D.**

(57) Abstract :

Pigmented masonry compositions are provided that include chemically treated carbon black pigments having attached an organic group including an ionic or an ionizable group, the ionic or ionizable group being present at a level from 1.0 to 3.0  $\mu\text{mol}/\text{m}^2$ . The compositions exhibit excellent color consistency and jetness and provide consistent color after long term exposure to high levels of moisture.

No. of Pages : 29 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023101 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A MULTIFUNCTIONAL EXERCISE APPARATUS

(51) International classification	:A63B0021000000, A63B0022000000, A63B0021220000, A63B0021005000, A63B0023040000	(71) <b>Name of Applicant :</b> <b>1)DANISH AEROSPACE COMPANY A/S</b> Address of Applicant :Hvidkørvej 31 A, st., H_jme DK-5250 Odense SV Denmark
(31) Priority Document No	:PA201870784	(72) <b>Name of Inventor :</b> <b>1)HANSEN, Daniel Hasse Hagen</b>
(32) Priority Date	:28/11/2018	
(33) Name of priority country	:Denmark	
(86) International Application No	:PCT/DK2019/050365	
Filing Date	:27/11/2019	
(87) International Publication No	:WO 2020/108717	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A multifunctional exercise apparatus for exercise of humans, in particular astronauts, said apparatus comprising a first module (1) comprising a cable reel system (2) operably connected to a torque resistance mechanism (3), and a second module (4) comprising a flywheel (5) and a brake (6) for providing resistance to the flywheel. The ability provided by the present invention for developing exercises in which the flywheel and a brake in combination with the torque resistance mechanism provides for further possibilities for training body joints and muscle groups.

No. of Pages : 30 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023113 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SWITCHABLE LENS ANTENNA WITH INTEGRATED FREQUENCY SELECTIVE STRUCTURE

(51) International classification	:H01Q0019060000, H01P0003000000, H01Q0021000000, H01Q0015000000, H01Q0003240000	(71) <b>Name of Applicant :</b> <b>1)HUAWEI TECHNOLOGIES CO., LTD.</b> Address of Applicant :Huawei Administration Building, Bantian, Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:16/191630	(72) <b>Name of Inventor :</b>
(32) Priority Date	:15/11/2018	<b>1)BOUTAYEB, Halim</b>
(33) Name of priority country	:U.S.A.	<b>2)ZHAI, Wenyao</b>
(86) International Application No	:PCT/CN2019/118270	<b>3)REPETA, Morris</b>
Filing Date	:14/11/2019	
(87) International Publication No	:WO 2020/098726	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosed structures and methods are directed to antenna systems configured to transmit and receive a wireless signal in and from different directions. A switchable lens antenna has excitation ports radiating radio-frequency (RF) wave into a parallel-plate waveguide structure, and a frequency selective structure (FSS). The antenna presented herein is configured to operate in two modes depending on a steering angle of the RF wave propagating in the parallel-plate waveguide structure. When the steering angle is about or less than a threshold steering angle, FSS is OFF due to its stubs being electrically disconnected from the parallel-plate waveguide structure. When the steering angle is higher than the threshold, FSS is ON with stubs being electrically connected to the parallel-plate waveguide structure. When ON, FSS provides phase variance to the RF wave propagating in the parallel-plate waveguide structure and increases steering angle of the RF wave.

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023124 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FUSOGENIC LIPOSOMES FOR SELECTIVE IMAGING OF TUMOR CELLS

(51) International classification	:A61K0009127000, A61K0047640000, A61K0041000000, A61K0045060000, A61K0047320000	(71) <b>Name of Applicant :</b> <b>1)APA- ADVANCED TECHNOLOGIES LTD.</b> Address of Applicant :P.O. Box 21205 6121102 Tel Aviv Israel
(31) Priority Document No	:62/749794	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/10/2018	<b>1)NUDELMAN, Igor</b>
(33) Name of priority country	:U.S.A.	<b>2)KANETI, Galoz</b>
(86) International Application No	:PCT/IL2019/051153	<b>3)MILITSIN, Ruslana</b>
Filing Date	:24/10/2019	<b>4)GOLDSOBEL, Avi</b>
(87) International Publication No	:WO 2020/084623	<b>5)SCHROEDER, Avi</b>
(61) Patent of Addition to Application Number	:NA	<b>6)GERSHON, David</b>
Filing Date	:NA	<b>7)ALCALAY, Haim</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fusogenic liposome comprising a detectable agent and optionally a cytotoxic drug in its internal aqueous compartment or bound to the liposome membrane is provided, wherein said fusogenic liposome comprises a lipid bilayer comprising a plurality of lipid molecules having 14 to 24 carbon atoms, and at least one of said lipid molecules further comprises a cationic group, a cationic natural or synthetic polymer, a cationic amino sugar, a cationic polyamino acid or an amphiphilic cancer-cell binding peptide; and at least one of said lipid molecules further comprises a stabilizing moiety selected from the group consisting of polyethylene glycol (PEG), polypropylene glycol, polyvinyl alcohol, polyvinylpyrrolidone (PVP), dextran, a polyamino acid, methyl- polyoxazoline, polyglycerol, poly(acryloyl morpholine), and polyacrylamide. Methods utilizing these liposomes in treatment of cancer are further provided.

No. of Pages : 48 No. of Claims : 57

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023137 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification	:H04W0036000000, H04W0072040000, H04W0036080000, H04W0008140000, H04W0076110000	(71) <b>Name of Applicant :</b> <b>1)HUAWEI TECHNOLOGIES CO., LTD.</b> Address of Applicant :Huawei Administration Building Bantian, Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:201811379025.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:19/11/2018	<b>1)WU, Yizhuang</b>
(33) Name of priority country	:China	<b>2)ZHANG, Wanqiang</b>
(86) International Application No	:PCT/CN2019/119293	
Filing Date	:18/11/2019	
(87) International Publication No	:WO 2020/103807	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present application relate to the technical field of communications, and particularly relate to a communication method and apparatus, for improving the reliability of received downlink data and reducing delay in a process that a terminal switches an access network device. The solution comprises: a source access network device sends a first data packet of a terminal to a target access network device; when the source access network device determines that the target access network device receives the first data packet, the source access network device sends a first message to the terminal, the first message being used for indicating that the terminal switches to the target access network device.

No. of Pages : 79 No. of Claims : 24



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023138 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SEALING MEMBER FOR A SECTIONED WIND TURBINE BLADE

(51) International classification :F03D0001060000,  
B29L0031080000,  
B29C0065480000,  
B29C0065000000,  
F01D0005220000

(31) Priority Document No :1817618.0

(32) Priority Date :29/10/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/EP2019/079171  
Filing Date :25/10/2019

(87) International Publication No :WO 2020/089069

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)BLADE DYNAMICS LIMITED**

Address of Applicant :Unit D Omega Enterprise Park  
Chandlers Ford Eastleigh Hampshire SO53 4SE U.K.

(72)Name of Inventor :

**1)AVALDI, Andrea**

**2)SWATTON, Chris Paul**

**3)FISH, Harry George James**

**4)MUKHERJEE, Manish**

(57) Abstract :

Disclosed is a method for sealing a joint between a first blade section and a second blade section of a wind turbine blade, a sealing member and a wind turbine blade comprising a sealing member. The sealing member having a first surface and a second surface. The sealing member having a width between a first edge and a second edge. The sealing member being configured for attachment to the first outer shell along the first edge, and for attachment to the second outer shell along the second edge. The sealing member comprising a corrugated section between the first edge and the second edge, the corrugated section comprising one or more valleys and/or ridges extending along a lengthwise direction of the sealing member.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023172 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TRUSTED EXECUTION BASED ON ENVIRONMENTAL FACTORS

(51) International classification	:G06Q0030060000, G06F0021620000, H04L0009320000, H04L0009080000, G06F0021350000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/200779	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/11/2018	<b>1)THALER, David Garfield, III</b>
(33) Name of priority country	:U.S.A.	<b>2)PFENNING, Joerg-Thomas</b>
(86) International Application No	:PCT/US2019/061903	<b>3)DIAZ-CUELLAR, Gerardo</b>
Filing Date	:18/11/2019	
(87) International Publication No	:WO 2020/112392	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A computing device, such as a personal computing device (e.g., laptop, smartphone, etc.) or server, is configured to utilize environmental factors in generating public/private key pairs to access restricted data or operations. The environmental factors can include location, time, barometric pressure, acceleration, temperature, humidity, and the like. An initial key pair may be used to encrypt data and enable other conventional security features. A key pair can be subsequently generated based on the same environmental factors as with the initial key pair generation and used to access the data or operations which have been restricted using the initial key pair.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023173 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : STREAMLINED SECURE DEPLOYMENT OF CLOUD SERVICES

(51) International classification	:H04L0029080000, G06F0009500000, H04L0012240000, G06F0008610000, H04L0012911000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:62/772920	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/11/2018	<b>1)POGREBINSKY, Vladimir</b>
(33) Name of priority country	:U.S.A.	<b>2)POPOV, Sergei</b>
(86) International Application No	:PCT/US2019/062710	<b>3)EAGER, Alexander Wayne</b>
Filing Date	:22/11/2019	
(87) International Publication No	:WO 2020/112508	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Techniques for streamlined secure deployment of cloud services in cloud computing environments are disclosed herein. In one embodiment, a method can include in response to receiving an instruction to deploy a cloud service in the cloud computing system, creating a deployment subscription to resources in the cloud computing system, the deployment subscription being owned by the deployment service and instantiating one or more computing resources accessible by the deployment service in the cloud computing system in accordance with the created deployment subscription. The method also includes retrieving one or more components of an application corresponding to the cloud service based on a manifest with the instantiated one or more computing resources and installing the retrieved one or more components of the application in the cloud computing system in accordance with an installation sequence identified in the manifest.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023175 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD AND DEVICE FOR FLEXIBLE FEEDBACK IN V2X TRANSMISSION, AND USER EQUIPMENT

(51) International classification	:H04B0007060000, H04L0005000000, H04W0072120000, H04W0072040000, H04W0004700000	(71) <b>Name of Applicant :</b> <b>1)SPREADTRUM COMMUNICATIONS (SHANGHAI) CO., LTD.</b> Address of Applicant :Spreadtrum Center, Building No. 1, Lane 2288, Zuchongzhi Road, China (Shanghai) Pilot Free Trade Zone Shanghai 201203 China
(31) Priority Document No	:201811286597.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/10/2018	<b>1)DENG, Yun</b>
(33) Name of priority country	:China	<b>2)HAN, Lifeng</b>
(86) International Application No	:PCT/CN2019/104357	<b>3)GU, Xiangxin</b>
Filing Date	:04/09/2019	
(87) International Publication No	:WO 2020/088093	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a method and a device for flexible feedback in V2X transmission, and user equipment (UE). At receiving-end UE, said method comprises: in a V2X transmission process, receiving a feedback requirement indicated by transmitting-end UE; determining a feedback resource according to the feedback requirement; and according to the feedback requirement, transmitting, on the feedback resource, the feedback information to the transmitting-end UE. At the transmitting-end UE, said method comprises: in the V2X transmission process, indicating a feedback requirement to the receiving-end UE; and receiving feedback information sent, on the determined feedback resource, by the receiving-end UE according to the feedback requirement, the feedback resource being determined by the receiving-end UE according to the feedback requirement. The present invention is able to realize flexible feedback while satisfying the service requirements of the transmitting-end UE.

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023199 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONTEXT AND TIME PREDICTION BASED MESSAGE RECOMMENDATION SYSTEM

(51) International classification	:H04L0012580000, H04M0001725000, G06F0003023000, E02F0009200000, G06F0040166000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/189816	(72) <b>Name of Inventor :</b>
(32) Priority Date	:13/11/2018	<b>1)QIU, Honghao</b>
(33) Name of priority country	:U.S.A.	<b>2)CHEN, Chao</b>
(86) International Application No	:PCT/US2019/059939	<b>3)ZHOU, Tiancong</b>
Filing Date	:05/11/2019	<b>4)XIE, Yong</b>
(87) International Publication No	:WO 2020/101957	<b>5)CARTER, Kevin</b>
(61) Patent of Addition to Application Number	:NA	<b>6)WANG, Ke</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A messaging system configured for recommending messages is provided. The messaging system machine trains a prediction model associated with a user based on past review and response times for past messages. During runtime, the messaging system generates a predicted user action time for each new message based on the prediction model and tags each new message with a corresponding predicted user action time. Based on an amount of available time, the predicted user action time for each new message, and importance for each new message, the messaging system determines a recommended set of new messages that the user should read and respond to during the available time, whereby a sum of the predicted user action time of the recommended set of new messages is equal to or less than the available time. The recommended set of new messages are visually distinguished for the user.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023206 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVICE DESIGNED TO BE POSITIONED CLOSE TO A JOINT AND GENERAL SYSTEM COMPRISING SUCH A DEVICE

(51) International classification	:E05B0009040000, A47C0003300000, F16B0001000000, E05D0015260000, C23C0016240000	(71) <b>Name of Applicant :</b> <b>1)SAFRAN ELECTRONICS &amp; DEFENSE</b> Address of Applicant :72-76 rue Henry Farman 75015 Paris France
(31) Priority Document No	:1860006	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/10/2018	<b>1)LAROSE, Pascal</b>
(33) Name of priority country	:France	<b>2)DENNINGER, Marc</b>
(86) International Application No	:PCT/EP2019/079398	<b>3)LUCKING BIGUE, Jean-Philippe</b>
Filing Date	:28/10/2019	<b>4)PLANTE, Jean-Sbastien</b>
(87) International Publication No	:WO 2020/089169	<b>5)VERONNEAU, Catherine</b>
(61) Patent of Addition to Application Number	:NA	<b>6)GRENIER, Jordane</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a device intended to be positioned close to a joint between two parts, the device comprising a first interface (11) borne by a first of its two parts and a second interface (12) borne by a second of the two parts, the device comprising at least one connection between the first interface and the second interface, the connection comprising a double cylinder which comprises two chambers connected to each other by a floating piston, a first of the two chambers being connected to the first interface and a second of the two chambers being connected to an output rod of the double cylinder, said rod being connected to the second interface. The invention also relates to a system comprising a device of this kind.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023207 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVICE FOR POWERING AND CONTROLLING AN ELECTRIC VEHICLE

(51) International classification :B60L0058200000,  
B60L0050510000,  
B60L0015200000,  
B60L0003100000,  
H02J0007140000  
(31) Priority Document No :102018000009968  
(32) Priority Date :31/10/2018  
(33) Name of priority country :Italy  
(86) International Application No :PCT/EP2019/079686  
Filing Date :30/10/2019  
(87) International Publication No :WO 2020/089305  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)PIAGGIO & C. S.P.A.**  
Address of Applicant :Viale Rinaldo Piaggio, 25 I-56025  
Pontedera (PI) Italy  
(72)**Name of Inventor :**  
**1)CARMIGNANI, Luca**  
**2)CANTINI, Jury**

(57) Abstract :

A device for powering and controlling an electric vehicle comprising an electric traction motor and a control system of the vehicle and of the electric traction motor, said device comprising a first main battery for powering the electric motor and said control system, a second service battery adapted to power said control system during an ignition phase of said vehicle, first starting means of the vehicle and second emergency starting means of the vehicle. The control system comprises a first control unit of the vehicle and electric traction motor and a second control unit of said first main battery, said first starting means being operatively connected to said second service battery and to said first control unit of the vehicle and electric traction motor to power said first control unit by means of said second service battery in normal conditions, said second emergency starting means being operatively connected to said second control unit to power said first control unit by means of said first main battery under emergency conditions.

No. of Pages : 10 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023208 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PORTABLE WIRELESS SPEAKER ARRANGEMENT COMPRISING REPLACEABLE CASING WITH INTEGRATED BATTERY

(51) International classification	:H04R0001020000, H04R0001280000, H04R0009020000, H04R0009060000, H04R0001060000	(71) <b>Name of Applicant :</b> <b>1)NAHRA, Loui</b> Address of Applicant :Trekantsgatan 6 652 20 KARLSTAD Sweden <b>2)LAURITSEN, Daniel</b>
(31) Priority Document No	:1851363-0	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/10/2018	<b>1)NAHRA, Loui</b>
(33) Name of priority country	:Sweden	<b>2)LAURITSEN, Daniel</b>
(86) International Application No	:PCT/SE2019/051040	
Filing Date	:22/10/2019	
(87) International Publication No	:WO 2020/091653	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A portable wireless speaker arrangement (110) is disclosed. The speaker arrangement (110) comprises a speaker module (120), a rigid casing (130) arranged to at least partially enclose the speaker module (120), and a user interaction unit (136) adapted to allow user input. The speaker module (120) comprises a speaker element (122) for generation of audio, and at least one electric circuit (124) configured for receiving, from a source device (140), a signal representing the audio and configured for providing an electric output signal to be fed to the speaker element (122) for the generation of the audio. The speaker module (120) is adapted to be received by the casing (130) to allow for insertion thereof into the rigid casing (130) and removal thereof from the casing (130). The casing at least partially encloses the speaker module (120) in that the casing (130) comprises an opening (131) in which the speaker element (122) of the speaker module (120) is arranged. The casing (130) comprises a set of battery elements (137) that is integrated with the casing (130). The speaker module (120) is arranged to receive power from the set of battery elements (137) exclusively.

No. of Pages : 15 No. of Claims : 8



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023209 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : LIQUID-SOLID RADIAL MOVING BED REACTION DEVICE AND SOLID ACID ALKYLATION METHOD

(51) International classification	:B01J0008120000, B01J0019000000, B01J0008080000, C10G0035120000, B01J0019180000	(71)Name of Applicant : <b>1)CHINA PETROLEUM &amp; CHEMICAL CORPORATION</b> Address of Applicant :22 Chaoyangmen North Street, Chaoyang District Beijing 100728 China <b>2)RESEARCH INSTITUTE OF PETROLEUM PROCESSING, SINOPEC</b>
(31) Priority Document No	:201811270089.8	(72)Name of Inventor :
(32) Priority Date	:29/10/2018	<b>1)HU, Lifeng</b>
(33) Name of priority country	:China	<b>2)HOU, Shuandi</b>
(86) International Application No	:PCT/CN2019/113950	<b>3)MAO, Junyi</b>
Filing Date	:29/10/2019	<b>4)ZHU, Zhenxing</b>
(87) International Publication No	:WO 2020/088440	<b>5)TANG, Xiaojin</b>
(61) Patent of Addition to Application Number	:NA	<b>6)LIU, Zheng</b>
Filing Date	:NA	<b>7)LI, Yongxiang</b>
(62) Divisional to Application Number	:NA	<b>8)ZHAO, Zhihai</b>
Filing Date	:NA	

(57) Abstract :

A liquid-solid radial moving bed reaction device and a solid acid alkylation method using same. The liquid-solid radial moving bed reaction device comprises a radial moving bed reactor, a spent catalyst receiver, a catalyst regenerator, and a regenerant receiver connected sequentially, wherein a catalyst outlet of the regenerant receiver is communicated with a catalyst inlet of the radial moving bed reactor; a reaction material distribution area, a catalyst bed, and a reacted material collection area are provided in the radial moving bed reactor from inside to outside or from outside to inside; the reaction material distribution area is communicated with a feed pipe of reaction materials; the reacted material collection area is communicated with a discharge pipe of the reacted materials; and a component-based mixer is provided on the feed pipe of reaction materials. A method for solid acid alkylation by using the device. The reaction device achieves continuous smooth running of alkylation reaction and deactivated catalyst regeneration, improving the selectivity of target products and the flexibility of device operation and reducing equipment investment.

No. of Pages : 47 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023210 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONTROL DEVICE FOR AUTOMATIC TRAVEL WORK VEHICLE

(51) International classification	:G05D0001020000, A01B0069040000, B62D0006000000, E02F0009200000, G05D0001000000	(71) <b>Name of Applicant :</b> <b>1)KUBOTA CORPORATION</b> Address of Applicant :2-47, Shikitsuhigashi 1-chome, Naniwa-ku, Osaka-shi, Osaka 5568601 Japan
(31) Priority Document No	:2018-238895	(72) <b>Name of Inventor :</b>
(32) Priority Date	:20/12/2018	<b>1)SUGA Hiroki</b>
(33) Name of priority country	:Japan	<b>2)MIYASHITA Shunsuke</b>
(86) International Application No	:PCT/JP2019/048044	
Filing Date	:09/12/2019	
(87) International Publication No	:WO 2020/129722	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This control device for an automatic travel work vehicle is provided with: an own vehicle location calculating unit 80 that calculates an own vehicle location; a travel orientation calculating unit 81 that calculates the travel orientation in the front-back direction of the vehicle body; a steering state acquiring unit 56 that acquires a steering state; an own vehicle location estimating unit 61 that calculates an estimated own vehicle location which is the own vehicle location after predetermined travel from an own vehicle location; a deviation calculating unit 62 that calculates the deviation with respect to a target travel path of the work vehicle at the estimated own vehicle location; a target steering value calculating unit 63 that calculates a target steering value on the basis of the deviation; and an automatic travel control unit 511 that controls the steering on the basis of the target steering value.

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023211 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CATALYSED PROCESS OF PRODUCTION OF HYDROGEN FROM SILYLATED DERIVATIVES AS HYDROGEN CARRIER COMPOUNDS

(51) International classification	:C07C0237200000, C07C0235640000, C01B0003000000, C07C0233830000, A61K0038290000	(71) <b>Name of Applicant :</b> <b>1)HYSILABS SAS</b> Address of Applicant :Batiment Lavoisier - Avenue Louis Philibert Technopole de l'environnement Arbois-Mediterranee 13100 Aix-en-Provence France
(31) Priority Document No	:18306578.8	(72) <b>Name of Inventor :</b>
(32) Priority Date	:28/11/2018	<b>1)BURCHER, Benjamin</b>
(33) Name of priority country	:EPO	<b>2)LOME, Vincent</b>
(86) International Application No	:PCT/EP2019/079909	<b>3)BENOIT, Remy</b>
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/108913	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a catalysed process of production of hydrogen from silylated derivatives as hydrogen carrier compounds. The present invention also relates to a new catalyst used in the catalysed process of production of hydrogen from silylated derivatives as hydrogen carrier compounds.

No. of Pages : 38 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023213 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FACE RECOGNITION IN NOISY ENVIRONMENTS

(51) International classification	:H04L0029060000, G06F0021360000, G06F0021600000, A61B0005103000, G06Q0040000000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/191079	(72) <b>Name of Inventor :</b>
(32) Priority Date	:14/11/2018	<b>1)HASSAN, Amer A.</b>
(33) Name of priority country	:U.S.A.	<b>2)PEREZ NAFARRATE, Carlos A.</b>
(86) International Application No	:PCT/US2019/060165	<b>3)GIAIMO, Edward C.,III</b>
Filing Date	:07/11/2019	
(87) International Publication No	:WO 2020/101985	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A computing device stores an acquired image as a transient image template when there is a failure in an image-based authentication of the acquired image and the user of the computing device has provided user credentials that authorize the user to access the computing device. The transient image template may be used to further authorize the user to access the computing device during a predetermined time period. At the expiration of the predetermined time period, the computing device deletes the transient image template. The computing device then reverts to using a baseline image template for performing image-based authentication of the user. The transient image template may also be associated with a location such that the computing device uses the transient image template for image-based authentication when the computing device is at or near the location.

No. of Pages : 54 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023216 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FIELD OPERATION VEHICLE

(51) International classification	:G05D0001020000, A01B0069000000, G01C0021340000, G03B0005000000, A01B0069040000	(71) <b>Name of Applicant :</b> <b>1)KUBOTA CORPORATION</b> Address of Applicant :2-47, Shikitsuhigashi 1-chome, Naniwa-ku, Osaka-shi, Osaka 5568601 Japan
(31) Priority Document No	:2018-238893	(72) <b>Name of Inventor :</b>
(32) Priority Date	:20/12/2018	<b>1)TAKASE Shunya</b>
(33) Name of priority country	:Japan	<b>2)MISAKI Shinji</b>
(86) International Application No	:PCT/JP2019/048370	
Filing Date	:11/12/2019	
(87) International Publication No	:WO 2020/129759	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A field operation vehicle is provided with: a deviation recording unit that records a deviation position Pb at the time of deviation or a deviation traveling path LM (4) that is a target traveling path at the time of the deviation as deviation information on the deviation of a vehicle body caused during a field operation under automatic traveling; and an operation return management unit that determines a resumption traveling path LM (4) used when resuming the field operation after the deviation on the basis of the deviation information, and that manages return to the resumption traveling path LM (4) or the deviation position Pb. The operation return management unit has a determination unit that determines whether it is possible to change a shift from manual traveling to the automatic traveling in manual return traveling in which the vehicle body heads for the resumption traveling path.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023218 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TRANSFORMER COOLING SYSTEM AND TRANSFORMER INSTALLATION

(51) International classification :H01F0027080000,  
H01F0027280000,  
H01F0027120000,  
H01F0027220000,  
H01F0027020000

(31) Priority Document No :18209331.0

(32) Priority Date :29/11/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/078672  
Filing Date :22/10/2019

(87) International Publication No :WO 2020/108869

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :Bruggerstrasse 72 5400 Baden  
Switzerland

(72)Name of Inventor :  
**1)WANG, Yong**  
**2)TEPPER, Jens**  
**3)WU, Wei**  
**4)XU, Ava-Ye**

(57) Abstract :

A transformer cooling system (100) is described. The transformer cooling system (100) includes a dry transformer (1) and a housing (50) for the dry transformer. The dry transformer includes a core (10) including a leg (11). Additionally, the dry transformer includes a winding body (14) arranged around the leg (11). Further, a cooling channel (25) extending in a direction of a longitudinal axis of the winding body (14) is provided. Additionally, the transformer cooling system (100) includes a heat exchanger (60) adapted to dissipate heat from the housing (50). Further, the transformer cooling system (100) includes a flow generating device (30) arranged in the housing (50) for providing a cooling flow in the cooling channel (25). The flow generating device (30) is connected to the heat exchanger (60).

No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023219 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ADAPTIVE FILTERING

(51) International classification	:B22F0001000000, H03H0021000000, H04B0007041300, H04N0019820000, B65G0053560000	(71) <b>Name of Applicant :</b> <b>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)</b> Address of Applicant :SE-164 83 Stockholm Sweden <b>2)GAO, Hao</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GAO, Hao</b>
(33) Name of priority country	:NA	<b>2)CAO, Haiying</b>
(86) International Application No	:PCT/CN2018/112980	<b>3)LIU, Sheng</b>
Filing Date	:31/10/2018	
(87) International Publication No	:WO 2020/087339	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method in an adaptive filter system is provided. The method comprises obtaining parameters for a plurality of branches of the adaptive filter system (S310). The method further comprises computing gradient-based information for a selected one of the plurality of branches (S320). The method further comprises updating the parameters for the plurality of branches based on the gradient-based information for the selected branch (S330). An adaptive filter system is also provided.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023220 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEVICE FOR DISCHARGING AND RETURNING FLUIDS

(51) International classification :B41J0002180000,  
B01F0003080000,  
A61B0005157000,  
E21B0021080000,  
B01F0005000000

(31) Priority Document No :18203262.3

(32) Priority Date :30/10/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/079382  
Filing Date :28/10/2019

(87) International Publication No :WO 2020/089161

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ELAFLEX HIBY GMBH & CO. KG**  
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Hamburg Germany

(72)Name of Inventor :  
**1)SCHULZ-HILDEBRANDT, Lasse**  
**2)FEDDE, Matthias**

(57) Abstract :

The invention relates to a device for discharging a first fluid and for returning a second fluid, comprising a main channel (13) for discharging the first fluid and a return channel (14) for returning the second fluid. According to the invention, a test channel (15) is provided which connects the main channel (13) to the return channel (14), the main channel (13) having a narrowing (16) and the test channel (15) issuing into the main channel (13) in the region of the narrowing (16). The device further has a sensor (17) which is designed to determine a pressure in the test channel (15). The invention further relates to an outflow tube, a delivery nozzle and a delivery pump having a device according to the invention. With the aid of the invention, active return of the second fluid can be shut off in a simple and safe manner.

No. of Pages : 18 No. of Claims : 15



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023222 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TUNED MASS DAMPER FOR FLOATING STRUCTURES

(51) International classification	:B63B0035440000, F03D0013200000, F03D0013250000, E02B0017000000, B63B0021500000	(71) <b>Name of Applicant :</b> <b>1)UNIVERSITY OF MAINE SYSTEM BOARD OF TRUSTEES</b> Address of Applicant :15 Estabrooke Drive Orono, ME 04469 U.S.A.
(31) Priority Document No	:62/754699	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)ALLEN, Christopher, K.</b>
(33) Name of priority country	:U.S.A.	<b>2)VISELLI, Anthony, M.</b>
(86) International Application No	:PCT/US2019/059628	<b>3)GOUPEE, Andrew, J.</b>
Filing Date	:04/11/2019	<b>4)DAGHER, Habib, J.</b>
(87) International Publication No	:WO 2020/093037	<b>5)LINDNER, Jeff</b>
(61) Patent of Addition to Application Number	:NA	<b>6)TOWNSEND, John S.</b>
Filing Date	:NA	<b>7)WILLIAMS, Rebecca L.</b>
(62) Divisional to Application Number	:NA	<b>8)GANT, Frederick S.</b>
Filing Date	:NA	<b>9)BERRY, Robert E.</b>

(57) Abstract :

A tuned mass damper (TMD) system in combination with a floating offshore wind turbine (FOWT) platform includes a barge type FOWT platform having a hull configured to have a wind turbine tower mounted thereon. A TMD system is mounted in the hull and has a first TMD configured to operate at a first frequency, and a second TMD configured to operate at a second frequency different than the first frequency.

No. of Pages : 17 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023223 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SAVING BATTERY LIFE USING AN INFERRED LOCATION

(51) International classification :H04W0004029000,  
H04W0004020000,  
H04L0029080000,  
G06N0005040000,  
G06F0016290000

(31) Priority Document No :16/194611

(32) Priority Date :19/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/061047  
Filing Date :13/11/2019

(87) International Publication No :WO 2020/106499

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)MICROSOFT TECHNOLOGY LICENSING, LLC**  
Address of Applicant :One Microsoft Way Redmond,  
Washington 98052-6399 U.S.A.

(72)**Name of Inventor :**  
**1)PRINESS, Ido**  
**2)HILLELI, Sagi**  
**3)RABIN, Jonathan**

(57) Abstract :

Aspects of the technology described herein provide improved battery life for a user device based on the use of an inferred location of the user that obviates the need for conventional location services like GPS. In particular, an inferred location for a user may be determined, including contextual information about the user location. Using information from the user's current context, with historical observations about the user and expected user events, out-of-routine events, or other lasting or ephemeral information, an inference of one or more user locations and corresponding confidences may be determined. The inferred user location may be provided to an application or service such as a personal assistant service associated with the user, or may be provided as an API to facilitate consumption of the inferred location information by an application or service.

No. of Pages : 51 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023224 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ADAPTIVE VERTICAL TAKE-OFF AND LANDING PROPULSION SYSTEM

(51) International classification	:F01D0017160000, F02C0006120000, A47L0009140000, E01H0001080000, F02B0037240000	(71) <b>Name of Applicant :</b> <b>1)JETOPTERA, INC.</b> Address of Applicant :144 Railroad Avenue, Suite 100 Edmonds, Washington 98020 U.S.A.
(31) Priority Document No	:62/758441	(72) <b>Name of Inventor :</b>
(32) Priority Date	:09/11/2018	<b>1)EVULET, Andrei</b>
(33) Name of priority country	:U.S.A.	<b>2)SMALLWOOD, Tyler</b>
(86) International Application No	:PCT/US2019/060786	
Filing Date	:11/11/2019	
(87) International Publication No	:WO 2020/097608	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A propulsion system for an aircraft includes a plenum having an intake port and an output port. A fan is coupled to a motor configured to power the fan, and the powered fan is configured to compress ambient air entering the intake port. One or more ejectors are fluidically coupled to the plenum via one or more valves. A nozzle is disposed within the output port and includes a set of vanes. The system operates in a first configuration in which the nozzle vanes are closed and the compressed ambient air exits the plenum only through the one or more valves into the one or more ejectors. The system operates in a second configuration in which the one or more valves are closed, the nozzle vanes are open and the compressed ambient air exits the plenum only through the output port.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023228 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : MANAGING DATA RESOURCES

(51) International classification :G06F0021620000,  
G06Q0020320000,  
G06F0012020000,  
G06F0016270000,  
G06F0016182000

(31) Priority Document No :16/200544  
(32) Priority Date :26/11/2018  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2019/062082  
Filing Date :19/11/2019  
(87) International Publication No :WO 2020/112419  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)MICROSOFT TECHNOLOGY LICENSING, LLC**  
Address of Applicant :One Microsoft Way Redmond,  
Washington 98052-6399 U.S.A.

(72)**Name of Inventor :**  
**1)KREUTZER, Tor**  
**2)KARLBERG, Jan-Ove Almlı**  
**3)JAYASUNDARA, Shamika Ruklan**  
**4)FLEDSBERG, ˘ystein**  
**5)TORBJ˘RNSEN, ˘ystein**  
**6)KVALNES, ...ge Andre**  
**7)SOLHEIM, Helge Grenager**

(57) Abstract :

A method comprising: storing, in a database, a list of geographical regions in which the party consents to their data being stored; receiving a request to store data of the party, wherein at least one of the data has a region-restriction that restricts the regions in which that data can be stored; determining, based on a respective region-restriction of a respective one of the data, in which of the list of regions the respective data can be stored; storing the data, wherein each respective data is stored in at least one respective storage centre associated with one of the regions according to the determination; storing, in the database, a list comprising a pointer to each respective stored data, wherein the pointer identifies the respective storage centre; receiving a request to retrieve a respective stored data; and using the pointer to route the request to the respective storage centre.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023234 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SCREEN SHARING VIA A THIN CLIENT APPLICATION

(51) International classification	:H04L0029080000, H04L0029060000, G06F0009451000, G06F0008600000, H04W0012060000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:62/773978	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/11/2018	<b>1)ROSSMAN, Sabra Alexis Wieditz</b>
(33) Name of priority country	:U.S.A.	<b>2)GOLOSHUBIN, Alexey</b>
(86) International Application No	:PCT/US2019/062714	<b>3)MAHENDRU, Kshitij</b>
Filing Date	:22/11/2019	<b>4)PRABHAKAR, Shivaram</b>
(87) International Publication No	:WO 2020/112512	<b>5)BAJAJ, Sharad</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A server device may host a communication application that remotely accessed by a computing device. Display data generated by a remotely accessed application is communicated to the computing device from the server device. The display data generated by the remotely accessed application is communicated from the computing device to another computing device associated with a user participating in the communication session hosted by the communication application. A communication application executing on the other computing device displays a user interface of the remotely accessed application by processing the display data.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023240 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SENTENCE ATTENTION MODELING FOR EVENT SCHEDULING VIA ARTIFICIAL INTELLIGENCE AND DIGITAL ASSISTANTS

(51) International classification	:G06Q0010100000, H04W0072120000, G06F0040100000, G10L0015180000, G06F0040166000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/206402	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/11/2018	<b>1)LEE, Charles Yin-Che</b>
(33) Name of priority country	:U.S.A.	<b>2)BHATTACHARYA, Pamela</b>
(86) International Application No	:PCT/US2019/062888	<b>3)PATRA, Barun</b>
Filing Date	:24/11/2019	
(87) International Publication No	:WO 2020/112572	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In non-limiting examples of the present disclosure, systems, methods and devices for assisting with scheduling a meeting are presented. A message comprising a plurality of sentences may be received. A hierarchical attention model may be utilized to identify a subset of sentences of the plurality of sentences that are relevant to a scheduling of the meeting. A subset of words in the subset of sentences that are potentially relevant to scheduling of the meeting may be identified based on relating to at least one meeting parameter. The subset of words may be split into a first group comprising words from the subset of words that are above a meeting relevance threshold value, and a second group comprising words from the subset of words that are below a meeting relevance threshold value. An automated action associated with scheduling the meeting may be caused to be performed.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023261 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PRIVACY PRESERVING SERVER

(51) International classification :H04L0029060000,  
H04L0009000000,  
G06F0021620000,  
H04L0009080000,  
H04L0009320000

(31) Priority Document No :16/427549

(32) Priority Date :31/05/2019

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/043889  
Filing Date :29/07/2019

(87) International Publication No :WO 2020/242509

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)INTUIT INC.**

Address of Applicant :2700 Coast Avenue Mountain View,  
California 94043 U.S.A.

(72)Name of Inventor :

**1)VALD, Margarita**

**2)SHEFFER, Yaron**

**3)RESHEFF, Yehezkel S.**

**4)SHAHAR, Shimon**

(57) Abstract :

Certain aspects of the present disclosure provide techniques for performing computations on encrypted data. One example method generally includes obtaining, at a computing device, encrypted data, wherein the encrypted data is encrypted using fully homomorphic encryption and performing at least one computation on the encrypted data while the encrypted data remains encrypted. The method further includes identifying a clear data operation to perform on the encrypted data and transmitting, from the computing device to a server, a request to perform the clear data operation on the encrypted data, wherein the request includes the encrypted data. The method further includes receiving, at the computing device in response to the request, encrypted output from the server, wherein the encrypted output is of the same size and the same format for all encrypted data transmitted to the server.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023262 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PRIORITY BASED COEXISTENCE

(51) International classification	:H04W0088060000, H04W0072120000, H04L0027260000, H04N0021434000, B65D0081320000	(71) <b>Name of Applicant :</b> <b>1)QUALCOMM INCORPORATED</b> Address of Applicant :Atten: International IP Administration 5775 Morehouse Drive San Diego, California, US 92121-1714 U.S.A.
(31) Priority Document No	:62/780900	(72) <b>Name of Inventor :</b>
(32) Priority Date	:17/12/2018	<b>1)NGUYEN, Tien Viet</b>
(33) Name of priority country	:U.S.A.	<b>2)BHARADWAJ, Arjun</b>
(86) International Application No	:PCT/US2019/061236	<b>3)GULATI, Kapil</b>
Filing Date	:13/11/2019	<b>4)BAGHEL, Sudhir Kumar</b>
(87) International Publication No	:WO 2020/131256	<b>5)PATIL, Shailesh</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus may comprise a component for communicating using a first RAT and another component for communicating using a second RAT. Overlapping communication using the two RATs may cause problems for proper reception at the apparatus. The apparatus may detect that transmission or reception of a first packet using a first RAT will overlap in time with reception of a second packet using a second RAT. The apparatus prioritizes the first packet or the second packet based at least on a relative priority of the first packet and the second packet.

No. of Pages : 33 No. of Claims : 30



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023267 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : STORAGE DEVICE FOR STORING TRANSPORT UNITS

(51) International classification	:G02F0001136200, B60P0003060000, B61L0015000000, G06F0003038000, G06K0009320000	(71) <b>Name of Applicant :</b> <b>1)FERAG AG</b> Address of Applicant :Zürichstrasse 74 8340 Hinwil Switzerland
(31) Priority Document No	:01328/18	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/10/2018	<b>1)ALTWEGG, Heinz</b>
(33) Name of priority country	:Switzerland	
(86) International Application No	:PCT/EP2019/079416	
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/089177	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a storage device (1') for storing transport units (3'), comprising: a plurality of transport units (3'); a plurality of storage lines (12a'-12g'), which are designed to store transport units (3'); a feed line (11'), which is connected to the storage lines (12a'-12g') by means of respective first switches (111'); a measuring device (15'), which is arranged on the feed line (11') and is designed to determine an extent of a transport unit (3'); and a controller (16'), which is connected to the measuring device (15') and the first switches (111') and is designed to select, on the basis of the extent of the transport unit (3') determined by the measuring device (15'), a storage line (12a'-12g') for storing the transport unit (3').

No. of Pages : 40 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023268 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DEFAULT MAP ZOOM LEVEL BY TRAVEL TIME

(51) International classification	:G01C0021360000, G06F0016290000, G06F0016953700, G01C0021320000, G01C0021000000	(71) <b>Name of Applicant :</b> <b>1)GOOGLE LLC</b> Address of Applicant :1600 Amphitheatre Parkway Mountain View, CA 94043 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GALLEHER, Ryan</b>
(33) Name of priority country	:NA	<b>2)GRIGERA, Alejo</b>
(86) International Application No	:PCT/US2018/067492	
Filing Date	:26/12/2018	
(87) International Publication No	:WO 2020/139319	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods are provided for generating a mapping application that displays an initial map with a zoom level that is based on a travel time associated with the location of the user. The mapping application receives a request to present a digital map from a client device. Based on the current geographic location of the client device, the mapping application estimates a distance in which a user of the client device can travel within a particular time period. The mapping application then selects a parameter for a viewport of the digital map based at least on the estimated distance. For example, the viewport parameter may be a zoom level. The mapping application then generates the digital map in accordance with the selected parameter, and displays the digital map via a user interface of the client device.

No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023269 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEMS AND METHODOLOGY FOR CONSTRUCTION MANAGEMENT AND EQUIPMENT POSITIONING VIA BUILDING INFORMATION MODELING

(51) International classification	:G06F0030130000, G06Q0050080000, G06F0040140000, G01C0021200000, G01S0005020000	(71) <b>Name of Applicant :</b> <b>1)ANCHOR RING SOLUTIONS, LLC</b> Address of Applicant :110 N. Franklin Street Pen Argyl, PA 18072 U.S.A.
(31) Priority Document No	:16/186247	(72) <b>Name of Inventor :</b>
(32) Priority Date	:09/11/2018	<b>1)FUGALLO, Joseph, A. III</b>
(33) Name of priority country	:U.S.A.	<b>2)MARRA, John, P.</b>
(86) International Application No	:PCT/US2019/060653	<b>3)WALSH, James, R.</b>
Filing Date	:09/11/2019	<b>4)FUGALLO, Joseph, IV</b>
(87) International Publication No	:WO 2020/097589	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system, method and apparatus includes generating a building model of a building to be constructed at a construction site, identifying within the building model positional locations for installation of one or more anchor apparatuses within structural elements of the building model, transmitting the building model to a portable computing device at the construction site and identifying the location of the portable computing device to a given positional location. At least the generating, identifying, transmitting and identifying steps are implemented via at least one processing device comprising a processor and a memory.

No. of Pages : 39 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023271 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : STATCOM ARRANGEMENT WITHOUT PHASE REACTORS

(51) International classification	:H02M0007483000, H02J0003180000, H02M0001000000, H02J0003010000, G06K0019077000	(71) <b>Name of Applicant :</b> <b>1)ABB POWER GRIDS SWITZERLAND AG</b> Address of Applicant :Bruggerstrasse 72 5400 Baden Switzerland
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)OWENS, Andrew</b>
(33) Name of priority country	:NA	<b>2)RASMUSSEN, Jon</b>
(86) International Application No	:PCT/EP2018/082635	<b>3)NIGLIS, Anton</b>
Filing Date	:27/11/2018	<b>4)SELIMOVIC, Jasmin</b>
(87) International Publication No	:WO 2020/108736	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a STATCOM arrangement (1) comprising an MMC (2) and a transformer arrangement (3) arranged to be an interface between the MMC (2) and an AC grid. The MMC (2) is connected in a wye topology with a plurality of converter arms, one for each phase of the AC grid, each arm comprising a plurality of chain-linked converter cells. The transformer arrangement (3) is arranged to interface each of the arms of the MMC (2) with a respective phase of the grid, and arranged to for each of the converter arms produce leakage reactance resulting in reactance in series with the arm which obviates the need for a phase reactor connected in series with said arm.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023272 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DENDRIMER FOR THERAPY AND IMAGING

(51) International classification	:C08G0083000000, A61K0047600000, C08G0069100000, A61K0047590000, C08G0069400000	(71) <b>Name of Applicant :</b> <b>1)STARPHARMA PTY LTD</b> Address of Applicant :4-6 Southampton Crescent Abbotsford Melbourne 3067 Australia
(31) Priority Document No	:2018904548	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/11/2018	<b>1)OWEN, David James</b>
(33) Name of priority country	:Australia	<b>2)HUFTON, Richard</b>
(86) International Application No	:PCT/AU2019/051312	<b>3)THURECHT, Kristofer James</b>
Filing Date	:29/11/2019	
(87) International Publication No	:WO 2020/107078	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is a dendrimer comprising: i) a core unit (C); and ii) building units (BU), wherein the core unit is covalently attached to at least two building units; the dendrimer having from two to six generations of building units; wherein building units of different generations are covalently attached to one another; and the dendrimer further comprising: iii) one or more first terminal groups attached to an outermost building unit, wherein each first terminal group comprises a radionuclide-containing moiety; and iv) one or more second terminal groups attached to an outermost building unit, wherein each second terminal group comprises a pharmacokinetic-modifying moiety; or a salt thereof. Also provided are compositions comprising the dendrimers, and methods of using the dendrimers and compositions in diagnostic and therapeutic applications.

No. of Pages : 86 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023289 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : VIDEO ENCODER, VIDEO DECODER AND METHODS

(51) International classification	:H04N0019176000, H04N0019960000, H04N0019119000, H04N0019140000, C21D0006000000	(71) <b>Name of Applicant :</b> <b>1)HUAWEI TECHNOLOGIES CO., LTD.</b> Address of Applicant :Huawei Administration Building, Bantian, Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:62/759929	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/11/2018	<b>1)GAO, Han</b>
(33) Name of priority country	:U.S.A.	<b>2)ESENLIK, Semih</b>
(86) International Application No	:PCT/CN2019/117526	<b>3)WANG, Biao</b>
Filing Date	:12/11/2019	<b>4)KOTRA, Anand Meher</b>
(87) International Publication No	:WO 2020/098649	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of and an apparatus for encoding and decoding are provided. The method comprises determining whether, as a condition for not applying binary splitting to a current block, determining whether the current block is a boundary block and whether a multi-type tree depth resulting from multi-type tree splitting of a quadtree leaf, is equal to or greater than a sum of a maximum boundary multi-type partition depth and a depth offset. Binary splitting is applied in accordance with a result of determining whether said condition is satisfied.

No. of Pages : 64 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023351 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SHELL-LESS ELECTRICAL CONNECTOR AND METHOD OF MAKING SAME

(51) International classification	:B60R0022020000, H01R0012700000, H01R0043240000, B60G0017015000, H01R0013260000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052 U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)CHANG, Le</b>
(33) Name of priority country	:NA	<b>2)LANE, David Michael</b>
(86) International Application No	:PCT/CN2018/117905	<b>3)LOOMIS, Scott Gerard</b>
Filing Date	:28/11/2018	<b>4)LAU, Tung Yuen</b>
(87) International Publication No	:WO 2020/107257	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electrical connector includes a receptacle connector having a tongue member with a surface extending between first and second tongue ends and having a shoulder extending from the surface adjacent to the second tongue end. The shoulder has a cross-sectional area within a receptacle opening size limit. The receptacle connector further includes a set of electrical contacts each extending through the shoulder between first and second contact ends on opposite sides of the shoulder. The electrical contacts at the first contact end are attached to the tongue surface at the first tongue end. The electrical contacts at the second contact end extend beyond the second tongue end. The receptacle connector further includes an electromagnetic interference (EMI) shielding bracket covering at least a portion of the set of electrical contacts between the first contact end and the shoulder. The disclosure further includes a method of making the electrical connector.

No. of Pages : 26 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023373 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INTERACTIVE VENDING MACHINE

(51) International classification	:G06Q0030060000, G07F0009020000, G07F0011000000, G07F0011440000, G06Q0030020000	(71) <b>Name of Applicant :</b> <b>1)PEPSICO, INC.</b> Address of Applicant :700 Anderson Hill Road Purchase, New York 10577 U.S.A.
(31) Priority Document No	:16/179327	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)Jafa, Emad</b>
(33) Name of priority country	:U.S.A.	<b>2)LI, Xuejun</b>
(86) International Application No	:PCT/US2019/057627	<b>3)SEROCK, Yong</b>
Filing Date	:23/10/2019	<b>4)LAU, Cheuk Chi</b>
(87) International Publication No	:WO 2020/092083	<b>5)MITCHELL, Martyn Thomas</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MORRISON, Euan</b>
Filing Date	:NA	<b>7)CHAN, Wai Ting</b>
(62) Divisional to Application Number	:NA	<b>8)JOHNSTONE, Samuel Luke</b>
Filing Date	:NA	<b>9)WILLIAMS, Erik David</b>

(57) Abstract :

A vending machine has an interactive customer experience. Some embodiments of the vending machine include a transparent front wall with a plurality of display units located behind the front wall. Each of the display units may contain an example of a product available for vending. Based on input received from a customer and other information, the vending machine may provide a recommendation for a product or products to select for purchase. The vending machine may highlight the recommendation by selectively illuminating the product display units that contain the recommended products.

No. of Pages : 12 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023374 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : TABLE VENDING MACHINE

(51) International classification :G07F0009020000,  
G07F0011000000,  
G07F0011160000,  
G07F0009100000,  
G06Q0020180000

(31) Priority Document No :16/179532

(32) Priority Date :02/11/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/057520  
Filing Date :23/10/2019

(87) International Publication No :WO 2020/092072

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)PEPSICO, INC.**

Address of Applicant :700 Anderson Hill Road Purchase, New York 10577 U.S.A.

(72)Name of Inventor :

**1)Jafa, Emad**

**2)LI, Xuejun**

**3)SEROCK, Yong**

**4)LAU, Cheuk Chi**

**5)MITCHELL, Martyn Thomas**

**6)MORRISON, Euan**

**7)CHAN, Wai Ting**

**8)JOHNSTONE, Samuel Luke**

**9)WILLIAMS, Erik David**

(57) Abstract :

A vending machine with a reduced vertical height and footprint has a horizontal roller surface system for delivering vending products. The horizontal roller system includes actuated rollers and trays that move on top of the rollers. The products are present on top of the trays; the rollers actuate to deliver the trays, and the products, to a delivery portal. Some embodiments of the vending machine have a transparent top to allow the interior of the vending machine, and particularly the roller surface, to be visible from the exterior of the vending machine. The reduced height and size of the vending machine enables it to be placed in locations that are unavailable to conventional vending machines.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023376 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : HOUSING WITH INTERNAL LOCKING ARRANGEMENT

(51) International classification	:H05K0005020000, H05K0005000000, F16H0048240000, E05B0013000000, H05K0007140000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:18204297.8	(72) <b>Name of Inventor :</b> <b>1)RITTER, Jasmin</b>
(32) Priority Date	:05/11/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/079319	
Filing Date	:28/10/2019	
(87) International Publication No	:WO 2020/094433	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a housing (10) with one first housing part (12) and one second housing part (14), which are reliably locked by an internal locking arrangement. The locking arrangement is suitable for various types and sizes of housings, particularly for the housings of electronic and display devices. The locking mechanism comprises a first locking element (30) being arranged moveably along an axis on the first housing part (12) and comprises a first engaging portion (32) that forms an engaged or disengaged state with a second engaging portion (42), which is arranged on the first housing part (12). A third engaging portion (52) arranged on the second housing part (14) is locked-in in the engaged state leading to a reliable locking of the first housing part (12) and second housing part (14)., whereby the change between the engaged and disengaged state is realized by a movement of the first locking element (30).

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023377 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DISPARITY ESTIMATION FROM A WIDE ANGLE IMAGE

(51) International classification	:H04N0013128000, G06T0005000000, G06T0007593000, G06T0015200000, G06T0003000000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:18204567.4	(72) <b>Name of Inventor :</b> <b>1)VAREKAMP, Christiaan</b>
(32) Priority Date	:06/11/2018	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2019/080110	
Filing Date	:04/11/2019	
(87) International Publication No	:WO 2020/094575	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus a receiver (201) which receives a wide angle image with a first projection where a vertical image position of a scene position depends on a horizontal distance from the scene position to an optical axis for the image. Thus, the vertical image position of the scene point may depend on the horizontal image position. A mapper (203) generates a modified image having a modified projection by applying a mapping to the first wide angle image corresponding to a mapping from the first projection to a perspective projection followed by a non-linear vertical mapping from the perspective projection to a modified vertical projection of the modified projection and a non-linear horizontal mapping from the perspective projection to a modified horizontal projection of the modified projection. A disparity estimator (205) generates disparities for the modified image relative to a second image and representing a different view point than the first wide angle image.

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023378 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : POSITIONING OF A PATIENT CARRIER

(51) International classification	:A61N0001050000, B64D0047080000, A61B0006000000, A61B0034200000, A61B0018140000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:18204048.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)KRUEGER, Sascha</b>
(33) Name of priority country	:EPO	<b>2)SENEGAS, Julien</b>
(86) International Application No	:PCT/EP2019/079881	
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/089417	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A positioning control system for a patient carrier comprises a camera system to acquire image information from a detection range. An analysis module configured to access the acquired image information from the detection range and compute operator-activity within the detection range from the acquired image information. The operator-activity representing a spatio-temporal pattern of activities of an operator in the detection range. From the operator activity compute a location of a target anatomy that is selected to be imaged. The location of the target anatomy that is to be imaged can be derived from the spatio-temporal activity pattern of the operator during the preparation of the patient to be examined.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023379 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SKIN TREATMENT HEAD WITH INTEGRATED RELEASE SYSTEM

(51) International classification	:G01R0031280000, A61C0017220000, B60L0050640000, A61N0005060000, F21S0008020000	(71) <b>Name of Applicant :</b> <b>1)KONINKLIJKE PHILIPS N.V.</b> Address of Applicant :High Tech Campus 52 5656 AG Eindhoven Netherlands
(31) Priority Document No	:18204478.4	(72) <b>Name of Inventor :</b>
(32) Priority Date	:06/11/2018	<b>1)VAN ES, Michel</b>
(33) Name of priority country	:EPO	<b>2)GLAZENBURG, Joost, Tomas</b>
(86) International Application No	:PCT/EP2019/079313	<b>3)BULTEN, Janny</b>
Filing Date	:28/10/2019	<b>4)WOLF, Harold</b>
(87) International Publication No	:WO 2020/094430	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides a unit (300) configured for functionally coupling to a housing (100) of a body care device (1), wherein the housing (100) comprises an actuator (110) configured to at least partly rotate the unit (300) about an axis (A) when the unit (300) is functionally coupled to the housing (100), wherein the unit (300) is further configured to be functionally coupled to a skin treatment head (200) or wherein the unit (300) comprises the skin treatment head (200), wherein the unit (300) comprises: - a first connector element (310) for detachably coupling to a corresponding second connector element (120) of the housing (100) to provide the functional coupling of the housing (100) and the unit (300); - a chamber (400) with a chamber volume (405) for hosting a material (10) selected from the group consisting of a liquid and a semi-liquid, wherein the chamber (400) comprises a first chamber opening (410), wherein the first chamber opening (410) comprises a check valve (412); - a mechanical actuator (500), configured movable relative to the first connector element (310), wherein the mechanical actuator (500) is configured to transfer a force on the skin treatment head (200) in a direction of the first connector element (310) onto the material (10) to expel at least part of the material (10) via the first chamber opening (410) out of the chamber (400), wherein the mechanical actuator (500) is configurable in a plurality of positions relative to the first connector element (310) including a neutral position wherein the mechanical actuator (500) does not transfer a force onto the material (10).

No. of Pages : 25 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023380 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : OPTICAL FIBER SENSOR, OPTICAL SYSTEM AND METHOD OF OPTICALLY INTERROGATING AN OPTICAL FIBER SENSOR

(51) International classification :G02B0006020000,  
G01D0005353000,  
G01L0001240000,  
F21V0008000000,  
G01K0011320000

(31) Priority Document No :18205171.4

(32) Priority Date :08/11/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/079660  
Filing Date :30/10/2019

(87) International Publication No :WO 2020/094478

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)KONINKLIJKE PHILIPS N.V.**  
Address of Applicant :High Tech Campus 52 5656 AG  
Eindhoven Netherlands

(72)Name of Inventor :  
**1)'T HOOFT, Gert, Wim**  
**2)VAN PUTTEN, Eibert, Gerjan**  
**3)HORIXX, Jeroen, Jan, Lambertus**  
**4)VAN DUSSCHOTEN, Anna, Hendrika**

(57) Abstract :

The present invention relates to an optical fiber sensor, comprising an optical fiber having embedded therein at least one fiber core (14, 16, 18, 20) extending along a length of the optical fiber, the at least one fiber core having a plurality of single fiber Bragg gratings (40, 42, 44) arranged in series along the at least one fiber core (14, 16, 18, 20), wherein each fiber Bragg grating (40, 42, 44) has a single reflection spectrum around a single reflection peak wavelength when interrogated with light in an unstrained state of the at least one fiber core (14, 16, 18, 20), wherein the reflection peak wavelengths of the single reflection spectra are different from fiber Bragg grating (40, 42, 44) to fiber Bragg grating (40, 42, 44) along the at least one fiber core. Also described is an optical system and a method of interrogating an optical fiber sensor.

No. of Pages : 23 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023412 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR EFFICIENT AND SECURE PROCESSING, ACCESSING AND TRANSMISSION OF DATA VIA A BLOCKCHAIN NETWORK

(51) International classification	:H04L0009320000, G06Q0020380000, G06F0021620000, H04L0009060000, G06Q0020060000	(71) <b>Name of Applicant :</b> <b>1)NCHAIN HOLDINGS LIMITED</b> Address of Applicant :Fitzgerald House 44 Church Street St. John's Antigua And Barbuda
(31) Priority Document No	:1819290.6	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/11/2018	<b>1)WRIGHT, Craig Steven</b>
(33) Name of priority country	:U.K.	<b>2)VAUGHAN, Owen</b>
(86) International Application No	:PCT/IB2019/059793	<b>3)DAVIES, Jack Owen</b>
Filing Date	:14/11/2019	<b>4)TARTAN, Chloe Ceren</b>
(87) International Publication No	:WO 2020/109908	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides improved methods and systems for storing, sharing retrieving, writing and accessing data (content) on a blockchain. The invention may form part of a protocol for storing, searching and accessing the data. An embodiment of the invention comprises the step of processing at least one blockchain transaction (Tx) comprising: a protocol flag; a discretionary public key (DPK); and a discretionary transaction ID (DTx ID). These are discretionary in the sense that they are not required as part of the underlying blockchain protocol but in accordance with the present invention. This combination of features enables portions of data to be identified, retrieved and shared on a blockchain, and also to be linked/associated with one another when provided in a plurality of transactions. It enables a graph or tree-like structure to be constructed, which reflects the hierarchical relationships between portions of data, facilitating their processing, searching and sharing.

No. of Pages : 61 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023413 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : INFORMATION TRANSMISSION METHOD AND APPARATUS, AND BASE STATION AND TERMINAL

(51) International classification :H04W0072040000,  
H04L0005000000,  
H04W0072120000,  
H04B0007060000,  
H04W0004800000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2018/113498  
Filing Date :01/11/2018  
(87) International Publication No :WO 2020/087463  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.**  
Address of Applicant :No.018, Floor 8, Building 6, Yard 33,  
Middle Xierqi Road, Haidian District Beijing 100085 China  
(72)Name of Inventor :  
**1)ZHOU, Juejia**

(57) Abstract :

Provided are an information transmission method and apparatus, and a base station and a terminal. The method comprises: determining factors of impact of an on/off transition time on unit transmission resources; determining, according to the factors of impact, transmission configuration information of a target unit transmission resource, wherein the target unit transmission resource is the unit transmission resource on which the on/off transition time is located; and transmitting, according to the transmission configuration information, information using the target unit transmission resource. By using the information transmission method provided in the present disclosure, transmission resources can be effectively utilized, and a data transmission rate can be effectively improved in an application scenario where uplink and downlink switching is relatively frequent.

No. of Pages : 39 No. of Claims : 18



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023417 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : COMPUTER IMPLEMENTED SYSTEMS AND METHODS FOR STORING, RETRIEVING AND COMMUNICATION DATA VIA A PEER-TO-PEER NETWORK

(51) International classification	:G06Q0020380000, G06Q0020060000, H04L0009320000, H04L0009060000, G06Q0020400000	(71) <b>Name of Applicant :</b> <b>1)NCHAIN HOLDINGS LIMITED</b> Address of Applicant :Fitzgerald House 44 Church Street St. John's Antigua And Barbuda
(31) Priority Document No	:1819290.6	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/11/2018	<b>1)WRIGHT, Craig Steven</b>
(33) Name of priority country	:U.K.	<b>2)VAUGHAN, Owen</b>
(86) International Application No	:PCT/IB2019/059803	<b>3)DAVIES, Jack Owen</b>
Filing Date	:14/11/2019	<b>4)TARTAN, Chloe Ceren</b>
(87) International Publication No	:WO 2020/109910	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides a system for searching a blockchain (e.g. Bitcoin) for data/content stored in one or more blockchain transactions, and accessing that data/content. It may be used in conjunction with a protocol for searching the blockchain. An embodiment of the invention can be arranged to enable a user to search for, access, view, write and/or retrieve a portion of data provided in at least one blockchain transaction (Tx), and also arranged to identify the at least one transaction (Tx) based on a transaction index (TXindex) comprising a transaction ID and a public key associated with the transaction (Tx). The system may comprise a search facility which is either provided within the blockchain search system; or arranged to interface and/or communicate with the blockchain search system. It may also comprise at least one cryptocurrency wallet.

No. of Pages : 59 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023418 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : EARSET HAVING UTTERER VOICE RESTORATION FUNCTION

(51) International classification	:H04R0001100000, H04R0001020000, H04R0011020000, H04R0001280000, H04R0009020000	(71) <b>Name of Applicant :</b> <b>1)ORFEO SOUNDWORKS CORPORATION</b> Address of Applicant :612-ho, 11-41, Simin-daero 327beon-gil Dongan-gu, Anyang-si Gyeonggi-do 14055 Republic of Korea
(31) Priority Document No	:10-2018-0139686	(72) <b>Name of Inventor :</b> <b>1)KIM, Eundong</b>
(32) Priority Date	:14/11/2018	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2019/015462	
Filing Date	:13/11/2019	
(87) International Publication No	:WO 2020/101356	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is an earset having an utterer voice restoration function. The earset having an utterer voice restoration function, according to the present invention, comprises: a case having a through hole; at least one speaker driver unit provided inside the case and having a back hole; and an in-ear microphone provided inside so as to be separated from the space in which the speaker driver unit is provided, wherein the speaker driver unit and the in-ear microphone are provided inside so as to be separated from the through hole by a separator, a microhole which allows the through hole to communicate with the back hole is formed in the separator, and a resonance space is formed between the microhole and the back hole.

No. of Pages : 19 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023419 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SMART EARSET HAVING KEYWORD WAKEUP FUNCTION

(51) International classification	:H04R0001100000, G10L0015220000, G10L0015260000, G10L0021020800, G10L0015300000	(71) <b>Name of Applicant :</b> <b>1)ORFEO SOUNDWORKS CORPORATION</b> Address of Applicant :612-ho, 11-41, Simin-daero 327beon-gil Dongan-gu, Anyang-si Gyeonggi-do 14055 Republic of Korea
(31) Priority Document No	:10-2018-0139686	(72) <b>Name of Inventor :</b> <b>1)KIM, Eundong</b>
(32) Priority Date	:14/11/2018	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2019/015463	
Filing Date	:13/11/2019	
(87) International Publication No	:WO 2020/101357	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a smart earset having a keyword wakeup function. The smart earset having a keyword wakeup function, according to the present invention, comprises: a microphone which generates a voice signal by collecting the voice of an utterer; a control unit which generates a keyword corresponding to the voice signal (wherein the keyword is text that executes a particular program of a particular terminal) and generates a drive signal corresponding to the keyword; and a wireless communication module which is driven correspondingly to the drive signal.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023420 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : METHOD FOR PROVIDING SERVICE USING EARSET

(51) International classification	:H04R0001100000, H04R0003000000, B29C0048300000, H04R0005033000, H04M0001600000	(71) <b>Name of Applicant :</b> <b>1)ORFEO SOUNDWORKS CORPORATION</b> Address of Applicant :612-ho, 11-41, Simin-daero 327beon-gil Dongan-gu, Anyang-si Gyeonggi-do 14055 Republic of Korea
(31) Priority Document No	:10-2018-0139686	(72) <b>Name of Inventor :</b> <b>1)KIM, Eundong</b>
(32) Priority Date	:14/11/2018	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2019/015464	
Filing Date	:13/11/2019	
(87) International Publication No	:WO 2020/101358	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a system and a method for providing an application service using a noise-blocking earset. The system and method for providing an application service using a noise-blocking earset, according to the present invention, comprise: a wireless earset comprising a left earphone, which comprises a left speaker driver unit, a left microphone, and a left wireless communication module, and a right earphone, which comprises a right speaker driver unit, a right microphone, and a right wireless communication module; and a terminal which carries out processing and controlling of sound and voice signals for each of the left earphone and right earphone and provides a service corresponding to the execution of an application, wherein the wireless earset is a noise-blocking earset, and the noise-blocking earset is configured such that back holes of the left speaker driver unit and the right speaker driver unit communicate with microholes that block out noise.

No. of Pages : 27 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023427 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR EFFICIENT AND SECURE PROCESSING, ACCESSING AND TRANSMISSION OF DATA VIA A BLOCKCHAIN NETWORK

(51) International classification	:H04L0009320000, G06Q0020380000, G06F0016182000, G06F0016220000, H04L0029060000	(71) <b>Name of Applicant :</b> <b>1)NCHAIN HOLDINGS LIMITED</b> Address of Applicant :Fitzgerald House 44 Church Street St. John's Antigua And Barbuda
(31) Priority Document No	:1819290.6	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/11/2018	<b>1)WRIGHT, Craig Steven</b>
(33) Name of priority country	:U.K.	<b>2)VAUGHAN, Owen</b>
(86) International Application No	:PCT/IB2019/059791	<b>3)DAVIES, Jack Owen</b>
Filing Date	:14/11/2019	<b>4)TARTAN, Chloe Ceren</b>
(87) International Publication No	:WO 2020/109907	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides improved methods and systems for storing, sharing, accessing and processing data (content) on a blockchain. In one embodiment, there is provided a method of identifying a target transaction on a blockchain e.g. Bitcoin, comprising the steps of using a search path to identify the target transaction, the search path comprising: 1) a root transaction index (RTIndex) comprising a public key (RTPK) associated with the root transaction and an ID (RTID) associated with the root transaction; and 2) at least one attribute associated with the root transaction and/or the target transaction. This enables the creation and use of a search path analogous to that known in relation to the internet, but for the blockchain.

No. of Pages : 60 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023450 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SELF-ADVANCING ENDOSCOPIC PROBE AND SYSTEM COMPRISING SAME

(51) International classification	:A61B0001000000, A61B0001120000, A61M0025085000, F16L0055360000, A61B0001005000	(71) <b>Name of Applicant :</b> <b>1)ENDOGENE LIMITED</b> Address of Applicant :Suite 10, 2 St Andrews Street Brighton, Victoria 3186 Australia
(31) Priority Document No	:2018904148	(72) <b>Name of Inventor :</b> <b>1)</b>
(32) Priority Date	:31/10/2018	
(33) Name of priority country	:Australia	
(86) International Application No	:PCT/AU2019/051204	
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/087129	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments generally relate to propulsion devices, systems, or components thereof, for progressing instruments along passages, as well as associated methods of manufacture. For example, the instruments may include tools, sensors, probes and/or monitoring equipment for medical use (such as endoscopy) or industrial use (such as mining). The described embodiments may also be suitable for applications in other fields to progress an instrument along a passage. Some embodiments relate to an endoscope comprising or configured to receive a propulsion tube configured to assist in progressing the endoscope along a passage.

No. of Pages : 82 No. of Claims : 89

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023451 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR EFFICIENT AND SECURE PROCESSING, ACCESSING AND TRANSMISSION OF DATA VIA A BLOCKCHAIN NETWORK

(51) International classification :H04L0009320000,  
G06F0021620000,  
G06Q0020380000,  
H04L0009060000,  
H04L0029080000

(31) Priority Document No :1819290.6

(32) Priority Date :27/11/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/IB2019/059795  
Filing Date :14/11/2019

(87) International Publication No :WO 2020/109909

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)NCHAIN HOLDINGS LIMITED**  
Address of Applicant :Fitzgerald House 44 Church Street St.  
John's Antigua And Barbuda

(72)**Name of Inventor :**  
**1)WRIGHT, Craig Steven**  
**2)DAVIES, Jack Owen**  
**3)TARTAN, Chloe Ceren**  
**4)VAUGHAN, Owen**

(57) Abstract :

The invention provides improved methods and corresponding systems for the sharing, storage, creation and accessing of data stored on a blockchain eg the Bitcoin blockchain. It may form part of a protocol for searching the blockchain for content/data. A method in accordance with the invention may be used for associating or linking data stored within (separate/different) blockchain transactions to enable the identification, retrieval and/or sharing of data stored therein. Additionally, or alternatively, it facilitates identification of transactions (TX) in a blockchain which store content/data that needs to be shared, transmitted, stored and/or accessed by a user. Such a method comprises the step of mapping a mnemonic to: 1) a public key (PK) associated with the transaction (TX); and 2) the transaction ID (TXID ) of the transaction (TX).

No. of Pages : 61 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023452 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SUPER DUPLEX STAINLESS STEEL CLAD STEEL PLATE AND MANUFACTURING METHOD THEREFOR

(51) International classification	:C22C0038040000, C22C0038020000, C22C0038440000, C22C0038000000, C22C0038580000	(71) <b>Name of Applicant :</b> <b>1)BAOSHAN IRON &amp; STEEL CO., LTD.</b> Address of Applicant :885 Fujin Road, Baoshan District Shanghai 201900 China
(31) Priority Document No	:201811444072.X	(72) <b>Name of Inventor :</b>
(32) Priority Date	:29/11/2018	<b>1)LIANG, Xiaojun</b>
(33) Name of priority country	:China	<b>2)JIAO, Sihai</b>
(86) International Application No	:PCT/CN2019/118517	<b>3)DING, Jianhua</b>
Filing Date	:14/11/2019	<b>4)YUAN, Xiangqian</b>
(87) International Publication No	:WO 2020/108317	<b>5)WANG, Zhiyu</b>
(61) Patent of Addition to Application Number	:NA	<b>6)HAO, Yingmin</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A super duplex stainless steel clad steel plate and a manufacturing method therefor. The super duplex stainless steel clad steel plate has a two-layer structure, one layer being duplex stainless steel, and the other layer being carbon steel; the duplex stainless steel comprises the following components in weight percentages: less than or equal to 0.03% of C, less than or equal to 1.20% of Mn, less than or equal to 0.80% of Si, 24.0-26.0% of Cr, 6.0-8.0% of Ni, 3.0-5.0% of Mo, 0.24-0.32% of N, the balance being Fe and inevitable impurities; the carbon steel comprises the following components in weight percentages: 0.03-0.12% of C, 0.10-0.45% of Si, 0.70-1.60% of Mn, less than 0.020% of P, less than 0.025% of S, 0-0.35% of Cu, 0-0.40% of Cr, 0-0.40% of Ni, 0-0.05% of Nb, 0-0.40% of Mo, 0-0.018% of Ti, 0.015-0.045% of Al, the balance being Fe and inevitable impurities. Said clad steel plate can achieve high structural strength and corrosion resistance; said clad steel plate is a rolled clad steel sheet and can achieve metallurgical bonding between the cladding layer and the substrate materials, thereby obtaining a good bonding force.

No. of Pages : 24 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023470 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : FOAM COMPOSITIONS, FOAM MATRICES AND METHODS

(51) International classification	:A61L0015600000, A61L0015420000, A61L0015260000, A61L0015320000, A61L0015280000	(71) <b>Name of Applicant :</b> <b>1)COVALON TECHNOLOGIES INC.</b> Address of Applicant :1660 Tech Avenue, Unit #5 Mississauga, Ontario L4W 5S7 Canada
(31) Priority Document No	:62/754698	(72) <b>Name of Inventor :</b>
(32) Priority Date	:02/11/2018	<b>1)DUDNYK, Vyacheslav</b>
(33) Name of priority country	:U.S.A.	<b>2)KANOATOV, Mirzo</b>
(86) International Application No	:PCT/CA2019/051553	<b>3)DITIZIO, Valerio</b>
Filing Date	:01/11/2019	
(87) International Publication No	:WO 2020/087181	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are matrices, compositions and methods of making matrices. The matrix comprises a biomolecule and the matrix is a dried, cross-linked foam. The matrix is not lyophilized. The method comprises foaming the composition, crosslinking the composition and drying the composition. Matrices disclosed herein are useful as wound dressings and treating wounds.

No. of Pages : 43 No. of Claims : 98

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023482 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : VDAC1 SILENCING MOLECULES AND USE THEREOF

(51) International classification	:C12N0015113000, A61K0031713000, C07D0409120000, A61K0048000000, C07K0016280000	(71) <b>Name of Applicant :</b> <b>1)NATIONAL INSTITUTE FOR BIOTECHNOLOGY IN THE NEGEV LTD.</b> Address of Applicant :Ben Gurion University of the Negev P.O. Box 653 84105 Beer-Sheva Israel
(31) Priority Document No	:62/754007	(72) <b>Name of Inventor :</b>
(32) Priority Date	:01/11/2018	<b>1)SHOSHAN-BARMATZ, Varda</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IL2019/051181	
Filing Date	:31/10/2019	
(87) International Publication No	:WO 2020/089906	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of cancer therapy, specifically to potent RNA inhibitory molecules silencing the expression of Voltage-Dependent Ion Chanel- (VDAC1) and to the use of RNA inhibitory molecules for treating cancer.

No. of Pages : 63 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023484 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : V2X TRANSMISSION METHOD AND DEVICE, AND USER EQUIPMENT

(51) International classification	:H04W0072040000, H04W0092180000, H04W0004060000, H04W0004460000, H04W0004440000	(71) <b>Name of Applicant :</b> <b>1)SPREADTRUM COMMUNICATIONS (SHANGHAI) CO., LTD.</b> Address of Applicant :Spreadtrum Center, Building No. 1 Lane 2288, Zuchongzhi Road, China (Shanghai) Pilot Free Trade Zone Shanghai 201203 China
(31) Priority Document No	:201811286790.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:31/10/2018	<b>1)DENG, Yun</b>
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2019/112699	
Filing Date	:23/10/2019	
(87) International Publication No	:WO 2020/088319	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a V2X transmission method and device, and user equipment. Said method comprises: in the process of performing V2X transmission with a peer end, determining whether a PC5 link of the current frequency is not suitable for continuing V2X transmission; and when it is determined that the PC5 link of the current frequency is not suitable for continuing V2X transmission, triggering PC5 links switched to other frequencies to perform V2X transmission with the peer end, or releasing the PC5 link of the current frequency. The present invention is able to settle a failure in time when a link for V2X transmission fails, ensuring that the V2X transmission continues at different available frequencies.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023506 A

(19) INDIA

(22) Date of filing of Application :26/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : SIDE-BY-SIDE EXECUTION OF SAME-TYPE SUBSYSTEMS HAVING A SHARED BASE OPERATING SYSTEM

(51) International classification	:G06F0009540000, G06F0009445000, G06F0009448000, A61K0031437000, G06F0021530000	(71) <b>Name of Applicant :</b> <b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b> Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/206368	(72) <b>Name of Inventor :</b>
(32) Priority Date	:30/11/2018	<b>1)SAMBOTIN, Dragos C.</b>
(33) Name of priority country	:U.S.A.	<b>2)JOUBERT, Philippe Alain</b>
(86) International Application No	:PCT/US2019/062898	
Filing Date	:24/11/2019	
(87) International Publication No	:WO 2020/112578	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for executing side-by-side same-type subsystems includes multiple application programming interface (API) set schemas into memory. A first one of the API set schemas resolves an API set contract to a first host binary and a second one of the API set schemas resolves the API set contract to a different host binary. The method further includes executing elements of the first host binary responsive to receipt of an API call identified by the API set contract that is received within a first runtime context and executing elements of the second host binary responsive to receipt of the API call within a second runtime context.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023520 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : CONTROL NODE, CONTROL METHOD, AND CONTROL PROGRAM

(51) International classification	:H04L0012721000, H04L0012753000, G06F0001328700, G06F0013200000, H04B0010032000	(71) <b>Name of Applicant :</b> <b>1)MITSUBISHI ELECTRIC CORPORATION</b> Address of Applicant :7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310 Japan
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)HORI Hironori</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2018/048491	
Filing Date	:28/12/2018	
(87) International Publication No	:WO 2020/136878	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an optical communication system which includes a node (104) and a plurality of nodes and in which optical communication is continued through a node where power interruption has occurred, the node (104) comprises: a transmission and reception unit (104f) which receives an optical signal through one or more ports of a port (104a) and a port (104b); and a control unit (104g) which, on the basis of the optical signal received through the port (104a), detects occurrence of power interruption, and calculates a first path cost by weighting a path cost corresponding to the port (104a) with a weight. The control unit (104g) restricts the optical communication through the port (104a) when the first path cost has the largest value among the first path cost, a second path cost which is a path cost corresponding to the port (104b), and a path cost corresponding to each port of one or more nodes receiving power supply among the plurality of nodes.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147023524 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : WIRELESS TRANSMISSION DEVICE, WIRELESS RECEPTION DEVICE, REMOTE COMMUNICATION MONITORING SYSTEM, WIRELESS COMMUNICATION SYSTEM AND WIRELESS COMMUNICATION METHOD

(51) International classification	:H04L0001080000, H04L0027260000, H04L0001000000, H04W0004700000, H04L0027233000	(71) <b>Name of Applicant :</b> <b>1)MITSUBISHI ELECTRIC CORPORATION</b> Address of Applicant :7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310 Japan
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NAKAJIMA, Akinori</b>
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2018/048567	
Filing Date	:28/12/2018	
(87) International Publication No	:WO 2020/136895	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A wireless transmission device (2) is characterized by being provided with a repetition encoding unit which prepares a basic waveform with a length less than a frequency conversion length used in a wireless reception device, generates a repetition waveform in which the basic waveform is repeated a plurality of times and which has a length greater than or equal to the frequency conversion length, and generates a data frame including the repetition waveform and a known signal.

No. of Pages : 34 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022355 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL PEPTIDES AND COMBINATION OF PEPTIDES FOR USE IN IMMUNOTHERAPY AGAINST VARIOUS TUMORS

(51) International classification	:A61K0039000000, C07K0014740000, C07K0016280000, C12N0005078300, C07K0014470000	(71) <b>Name of Applicant :</b> <b>1)IMMATICS BIOTECHNOLOGIES GMBH</b> Address of Applicant :Paul-Ehrlich-Strae 15 72076 T <sup>1</sup> 4bingen, GERMANY Germany
(31) Priority Document No	:1505305.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/03/2015	<b>1)MAHR, Andrea</b>
(33) Name of priority country	:U.K.	<b>2)WEINSCHENK, Toni</b>
(86) International Application No	:PCT/EP2016/056557	<b>3)STEVERMANN, Lea</b>
Filing Date	:24/03/2016	<b>4)SCHOOR, Oliver</b>
(87) International Publication No	: NA	<b>5)FRITSCHKE, Jens</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SINGH, Harpreet</b>
Filing Date	:NA	
(62) Divisional to Application Number	:201747033687	
Filed on	:22/09/2017	

(57) Abstract :

The present invention relates to peptides, proteins, nucleic acids and cells for use in immunotherapeutic methods. In particular, the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor- associated T-cell peptide epitopes, alone or in combination with other tumor-associated peptides that can for example serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses, or to stimulate T cells ex vivo and transfer into patients. Peptides bound to molecules of the major histocompatibility complex (MHC), or peptides as such, can also be targets of antibodies, soluble T-cell receptors, and other binding molecules.

No. of Pages : 291 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022356 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL PEPTIDES AND COMBINATION OF PEPTIDES FOR USE IN IMMUNOTHERAPY AGAINST VARIOUS TUMORS

(51) International classification :A61K0039000000,  
C07K0014740000,  
C07K0016280000,  
C12N0005078300,  
C07K0014470000

(31) Priority Document No :1505305.1  
(32) Priority Date :27/03/2015  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/EP2016/056557  
Filing Date :24/03/2016  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :201747033687  
Filed on :22/09/2017

(71)Name of Applicant :

**1)IMMATICS BIOTECHNOLOGIES GMBH**

Address of Applicant :Paul-Ehrlich-Strae 15 72076 Tübingen,  
GERMANY Germany

(72)Name of Inventor :

**1)MAHR, Andrea**

**2)WEINSCHENK, Toni**

**3)STEVERMANN, Lea**

**4)SCHOOR, Oliver**

**5)FRITSCHKE, Jens**

**6)SINGH, Harpreet**

(57) Abstract :

The present invention relates to peptides, proteins, nucleic acids and cells for use in immunotherapeutic methods. In particular, the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor-associated T-cell peptide epitopes, alone or in combination with other tumor-associated peptides that can for example serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses, or to stimulate T cells ex vivo and transfer into patients. Peptides bound to molecules of the major histocompatibility complex (MHC), or peptides as such, can also be targets of antibodies, soluble T-cell receptors, and other binding molecules.

No. of Pages : 291 No. of Claims : 22



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022357 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL PEPTIDES AND COMBINATION OF PEPTIDES FOR USE IN IMMUNOTHERAPY AGAINST VARIOUS TUMORS

(51) International classification	:A61K0039000000, C07K0014740000, C07K0016280000, C12N0005078300, C07K0014470000	(71) <b>Name of Applicant :</b> <b>1)IMMATICS BIOTECHNOLOGIES GMBH</b> Address of Applicant :Paul-Ehrlich-Strae 15 72076 T <sup>1</sup> 4bingen, GERMANY Germany
(31) Priority Document No	:1505305.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/03/2015	<b>1)MAHR, Andrea</b>
(33) Name of priority country	:U.K.	<b>2)WEINSCHENK, Toni</b>
(86) International Application No	:PCT/EP2016/056557	<b>3)STEVERMANN, Lea</b>
Filing Date	:24/03/2016	<b>4)SCHOOR, Oliver</b>
(87) International Publication No	: NA	<b>5)FRITSCHKE, Jens</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SINGH, Harpreet</b>
Filing Date	:NA	
(62) Divisional to Application Number	:201747033687	
Filed on	:22/09/2017	

(57) Abstract :

The present invention relates to peptides, proteins, nucleic acids and cells for use in immunotherapeutic methods. In particular, the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor- associated T-cell peptide epitopes, alone or in combination with other tumor-associated peptides that can for example serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses, or to stimulate T cells ex vivo and transfer into patients. Peptides bound to molecules of the major histocompatibility complex (MHC), or peptides as such, can also be targets of antibodies, soluble T-cell receptors, and other binding molecules.

No. of Pages : 291 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022358 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL PEPTIDES AND COMBINATION OF PEPTIDES FOR USE IN IMMUNOTHERAPY AGAINST VARIOUS TUMORS

(51) International classification	:A61K0039000000, C07K0014740000, C07K0016280000, C12N0005078300, C07K0014470000	(71) <b>Name of Applicant :</b> <b>1)IMMATICS BIOTECHNOLOGIES GMBH</b> Address of Applicant :Paul-Ehrlich-Strae 15 72076 Tübingen, GERMANY Germany
(31) Priority Document No	:1505305.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/03/2015	<b>1)MAHR, Andrea</b>
(33) Name of priority country	:U.K.	<b>2)WEINSCHENK, Toni</b>
(86) International Application No	:PCT/EP2016/056557	<b>3)STEVERMANN, Lea</b>
Filing Date	:24/03/2016	<b>4)SCHOOR, Oliver</b>
(87) International Publication No	: NA	<b>5)FRITSCHKE, Jens</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SINGH, Harpreet</b>
Filing Date	:NA	
(62) Divisional to Application Number	:201747033687	
Filed on	:22/09/2017	

(57) Abstract :

The present invention relates to peptides, proteins, nucleic acids and cells for use in immunotherapeutic methods. In particular, the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor-associated T-cell peptide epitopes, alone or in combination with other tumor-associated peptides that can for example serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses, or to stimulate T cells ex vivo and transfer into patients. Peptides bound to molecules of the major histocompatibility complex (MHC), or peptides as such, can also be targets of antibodies, soluble T-cell receptors, and other binding molecules.

No. of Pages : 291 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022359 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : NOVEL PEPTIDES AND COMBINATION OF PEPTIDES FOR USE IN IMMUNOTHERAPY AGAINST VARIOUS TUMORS

(51) International classification	:A61K0039000000, C07K0014740000, C07K0016280000, C12N0005078300, C07K0014470000	(71) <b>Name of Applicant :</b> <b>1)IMMATICS BIOTECHNOLOGIES GMBH</b> Address of Applicant :Paul-Ehrlich-Strae 15 72076 T <sup>1</sup> 4bingen, GERMANY Germany
(31) Priority Document No	:1505305.1	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/03/2015	<b>1)MAHR, Andrea</b>
(33) Name of priority country	:U.K.	<b>2)WEINSCHENK, Toni</b>
(86) International Application No	:PCT/EP2016/056557	<b>3)STEVERMANN, Lea</b>
Filing Date	:24/03/2016	<b>4)SCHOOR, Oliver</b>
(87) International Publication No	: NA	<b>5)FRITSCHKE, Jens</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SINGH, Harpreet</b>
Filing Date	:NA	
(62) Divisional to Application Number	:201747033687	
Filed on	:22/09/2017	

(57) Abstract :

The present invention relates to peptides, proteins, nucleic acids and cells for use in immunotherapeutic methods. In particular, the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor- associated T-cell peptide epitopes, alone or in combination with other tumor-associated peptides that can for example serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses, or to stimulate T cells ex vivo and transfer into patients. Peptides bound to molecules of the major histocompatibility complex (MHC), or peptides as such, can also be targets of antibodies, soluble T-cell receptors, and other binding molecules.

No. of Pages : 291 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022370 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DYNAMIC INDICATION FOR CHANNEL STATE INFORMATION FEEDBACK

(51) International classification	:H04L0005000000, H04B0007060000, H04W0072040000, H04L0025020000, H04W0024100000	(71) <b>Name of Applicant :</b> <b>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)</b> Address of Applicant :SE-164 83, Stockholm, Sweden Sweden
(31) Priority Document No	:62/455,350	(72) <b>Name of Inventor :</b>
(32) Priority Date	:06/02/2017	<b>1)MURUGANATHAN, Siva</b>
(33) Name of priority country	:U.S.A.	<b>2)FRENNE, Mattias</b>
(86) International Application No	:PCT/IB2018/050745	<b>3)GAO, Shiwei</b>
Filing Date	:06/02/2018	<b>4)GRANT, Stephen</b>
(87) International Publication No	: NA	<b>5)HARRISON, Robert Mark</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:201947031119	
Filed on	:06/02/2018	

(57) Abstract :

Methods, base stations and wireless devices for dynamic indication of channel state information (CSI) resources are provided. According to one aspect, a method for a wireless device (40) for determining a channel state information reference symbol, CSI-RS, resource set indicated by a base station (20) is provided. The method includes determining a CSI-RS resource set based on an indication of a CSI report setting. The CSI report setting has a one-to-one correspondence to a CSI-RS resource set. FIG. 20

No. of Pages : 70 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022426 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A FIXED ROOF AERATED FOAM FIRE FIGHTING SYSTEM AND A METHOD FOR EXTINGUISHING FIRE IN A FIXED ROOF LARGE INDUSTRIAL TANK

(51) International classification :B05B0001140000,  
A62C0031120000,  
A62C0031050000,  
B05B0001260000,  
A62C0003060000

(31) Priority Document No :61/455,367

(32) Priority Date :19/10/2010

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2011/001768  
Filing Date :17/10/2011

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :3003/CHENP/2013  
Filed on :17/10/2011

(71)Name of Applicant :  
**1)WILLIAMS FIRE & HAZARD CONTROL, INC.**  
Address of Applicant :1530 Texla Road, Vidor, Texas 77662,  
USA U.S.A.

(72)Name of Inventor :  
**1)WILLIAMS, Dwight P.**  
**2)SPEARS, Casey, R.**

(57) Abstract :

Fixed systems and method for extinguishing large scale industrial tank fires, with and without fixed roofs, and featuring aerated foam projecting nozzles and including fixed center directed nozzles. The invention includes two connected nozzles, which project aerated foam of between in substantially focused streams and in roughly opposing directions. The two nozzles have a stream shaper in a tip portion of the nozzle with fins which terminate substantially flush with a nozzle tip solid bore discharge orifice. The two nozzles preferably are attached proximally downstream of and in fluid communication with at least one ambient air aeration chamber structure in combination with the two nozzles to produce aerated foam. A third nozzle of the fixed system is structured to discharge in a direction of within 30° of a perpendicular to the discharge axis defined by the two nozzles discharging in the roughly opposing directions. Figure 1

No. of Pages : 50 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022525 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : DRUM UNIT, CARTRIDGE, ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS AND COUPLING MEMBER

(51) International classification	:G03G0021180000, G03G0015020000, G03G0015000000, G03G0021160000, F16K0001220000	(71) <b>Name of Applicant :</b> <b>1)CANON KABUSHIKI KAISHA</b> Address of Applicant :30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan Japan
(31) Priority Document No	:	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/06/2017	<b>1)MORI, Tomonori</b>
(33) Name of priority country	:Argentina	<b>2)UESUGI, Tetsuo</b>
(86) International Application No	:PCT/JP2016/075735	
Filing Date	:26/08/2016	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:201947009292	
Filed on	:26/08/2016	

(57) Abstract :

A drum unit includes a photosensitive drum in a coupling member. The coupling member includes an engageable member having a driving force receiving portion which is capable of entering a recess of a driving shaft to receive a driving force for rotating photosensitive drum. The coupling member includes a holding member configured to hold said engageable member so as to be slidable at least in a radial direction of said drum unit.

No. of Pages : 155 No. of Claims : 76

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022646 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : PROCESSES FOR PRODUCING LIPIDS

(51) International classification	:C10L0001020000, C12P0007640000, C11C0003000000, C12N0015820000, C11B0001100000	(71) <b>Name of Applicant :</b> <b>1)COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION</b> Address of Applicant :Limestone Avenue Campbell, Australian Capital Territory 2612 (AU) Australia
(31) Priority Document No	:61/580,590	(72) <b>Name of Inventor :</b>
(32) Priority Date	:27/12/2011	<b>1)VANHERCKE, Thomas</b>
(33) Name of priority country	:U.S.A.	<b>2)PETRIE, James Robertson</b>
(86) International Application No	:PCT/AU2012/001598	<b>3)EL TAHCHY, Anna</b>
Filing Date	:21/12/2012	<b>4)SINGH, Surinder Pal</b>
(87) International Publication No	: NA	<b>5)LIU, Qing</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:5775/CHENP/2014	
Filed on	:25/07/2014	

(57) Abstract :

The present invention relates to methods of producing lipids. In particular, the present invention relates to methods of increasing the level of one or more non-polar lipids and/or the total non-polar lipid content in a vegetative plant part or a transgenic organism or part thereof.

No. of Pages : 701 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148022846 A

(19) INDIA

(22) Date of filing of Application :21/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : A MALE LUER CONNECTOR AND CAP ASSEMBLY AND A METHOD OF DISINFECTING THEREOF

(51) International classification :A61M0039100000,  
A61M0039200000,  
A61M0039160000,  
A61M0039260000,  
B08B0001000000

(31) Priority Document No :61/239,385

(32) Priority Date :02/09/2009

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2010/047359  
Filing Date :31/08/2010

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :1666/CHENP/2012  
Filed on :24/02/2012

(71)Name of Applicant :

**1)CAREFUSION 303, INC.**

Address of Applicant :3750 Torrey View Court, San Diego,  
CA 92130, United States of America U.S.A.

(72)Name of Inventor :

**1)LEWIS, Stephen**

(57) Abstract :

ABSTRACT A system and method for disinfecting an exposed portion of a female luer connector is disclosed. A male luer connector (140) coupled to a male luer connector cap (200) is provided where the male luer connector cap has a chamber (222) containing a disinfectant and a sealing member for sealing the disinfectant in the chamber. The chamber is at least partly opened and the disinfectant exposed by movement of the sealing member. An exposed surface of a female luer connector (120) is caused to come in contact with the disinfecting fluid in the chamber prior to the female luer connector mating with the male luer connector. FIG. 4C

No. of Pages : 21 No. of Claims : 17



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202148023297 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : IDENTITY PRIVACY IN WIRELESS NETWORKS

(51) International classification :H04L0029120000,  
H04W0012060000,  
H04W0012000000,  
H04W0012020000,  
H04W0012040000

(31) Priority Document No :62/128,724

(32) Priority Date :05/03/2015

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2016/018860  
Filing Date :22/02/2016

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :201747025315  
Filed on :17/07/2017

(71)Name of Applicant :

**1)QUALCOMM INCORPORATED**

Address of Applicant :a Delaware corporation, USA of Attn:  
International IP Administration, 5775 Morehouse Drive, San  
Diego, California 92121-1714, USA U.S.A.

(72)Name of Inventor :

**1)LEE, Soo Bum**

**2)PALANIGOUNDER, Anand**

**3)ESCOTT, Adrian Edward**

**4)HORN, Gavin Bernard**

(57) Abstract :

**IDENTITY PRIVACY IN WIRELESS NETWORKS** A method, comprising: initiating, by a user equipment (UE), registration with a serving network via an over-the-air connection; generating, by the UE, a proposed privacy mobile subscriber identity (PMSI) to be a substitute for an international mobile subscriber identity (IMSI); transmitting, by the UE to the serving network, the proposed PMSI via the over-the-air connection; and using, by the UE, the proposed PMSI as an initial PMSI for an attach message in response to receiving an acknowledgment message from the serving network indicating acceptance of the proposed PMSI. Fig. 5

No. of Pages : 46 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931043460 A

(19) INDIA

(22) Date of filing of Application :25/10/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AZIMUTH PAN HAVING GYRO GIMBAL

(51) International classification	:F16M0011200000, H02K0029030000, G01S0003786000, F24S0030000000, B09C0001060000	(71) <b>Name of Applicant :</b> <b>1)Prabir Bhowmik</b> Address of Applicant :6, South Baksara Village Road, Balloon Bari, Howrah 711109 West Bengal, India West Bengal India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Prabir Bhowmik</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to an azimuth pan having gyro gimbal and in particular, this invention relates to an azimuth pan having gyro gimbal having motorized and dual axis. More particularly, this present invention relates to an azimuth pan having gyro gimbal which maintain the object to a particular chosen direction. Furthermore, this invention also relates to an azimuth pan having gyro gimbal having a control motor needs a small torque and a small power consumption to reduce the running cost.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931051339 A

(19) INDIA

(22) Date of filing of Application :11/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A DUMMY BAR PIT SUMP SENSOR

(51) International classification	:B22D0011080000, G01C0021360000, H01S0005323000, F04D0015020000, F01M0011120000	(71) <b>Name of Applicant :</b> <b>1)TATA STEEL LIMITED</b> Address of Applicant :Jamshedpur 831 001, Jharkhand, India Jharkhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ARVIND KUMAR</b>
(33) Name of priority country	:NA	<b>2)RAKESH MOHAPATRA</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A DUMMY BAR PIT SUMP SENSOR The present disclosure relates to a dummy bar pit sump sensor (110), for controlling one or more dummy bar pit pumps (102), comprising an activation element (114) and a control element (116) connected to the one or more dummy bar pit pumps (102). Further, the activation element (114) comprises a striker (120) at one end and a float (122) at other end and is configured to move in an upward and downward direction based on a level of water in a dummy bar pit sump (100). Furthermore, the control element (116) comprises a high level switch (132) and a low level switch (134). In one example, during operation the striker (120) engages with the high level switch (132) to activate the one or more dummy bar pit pumps (102), and the striker (110) engages with the low level switch (134) to deactivate the one or more dummy bar pit pumps (102). [To be published with Figure 2]

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931051435 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A PROCESS FOR PREPARING LOW SILICON FERROCHROME AND PRODUCT THEREOF

(51) International classification	:C21C0001040000, C22B0034320000, C04B0035047000, C22C0033040000, C22C0038180000	(71) <b>Name of Applicant :</b> <b>1)TATA STEEL LIMITED</b> Address of Applicant :Jamshedpur 831 001, Jharkhand, India Jharkhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BISWAJYOTI BISWAS</b>
(33) Name of priority country	:NA	<b>2)ADITYA ROSHAN</b>
(86) International Application No	:NA	<b>3)BIRANCHI NARAYAN ROUT</b>
Filing Date	:NA	<b>4)CHILIN BISWAS</b>
(87) International Publication No	: NA	<b>5)UMESH PRASAD RATH</b>
(61) Patent of Addition to Application Number	:NA	<b>6)ASADI SRINIVASA REDDY</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A PROCESS FOR PREPARING LOW SILICON FERROCHROME AND PRODUCT THEREOF • ABSTRACT The present disclosure is in the field of metallurgy, more particularly towards ferrochrome production. The present disclosure provides a simple and single-step process of producing low silicon ferrochrome through external desiliconization i.e. silicon removal outside the furnace. The process of the present disclosure employs chrome ore as the sole silicon removal agent. Product comprising premium grade low silicon ferrochrome with low silicon content and high chromium content, and use of chrome ore as desiliconizing agent are also provided.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931051578 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM FOR MEASUREMENT OF 25-HYDROXY VITAMIN D3 LEVEL IN BIOSPECIMEN

(51) International classification :C12Q0001000000,  
A61K0031593000,  
A61N0001370000,  
G01N0033820000,  
G01N0027480000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
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(72)**Name of Inventor :**  
**1)GHOSH, Dr. Monidipa**  
**2)KOLEY, Dr. Chiranjib**  
**3)PAL, Doel**  
**4)DHARA, Sourav**  
**5)MAJI, Moumita**

(57) Abstract :

**ABSTRACT TITLE OF INVENTION: A SYSTEM FOR MEASUREMENT OF 25-HYDROXY VITAMIN D3 LEVEL IN BIOSPECIMEN** A system for measuring Vitamin D3 level in biospecimen including serum samples and the like comprising: electrode excitation and sensing system which comprises ramp waveform generator,current sensing, impedance matching, and microprocessor based system, for extraction of relevant parameters (free electrons) indicative of the Vitamin D3 level in said sample. The process of estimation of 25-Hydroxyvitamin D3 in serum sample by the said system involves use of VD3 1 A hydroxylase (ANTI-CYP27B1, C-TERM) as antibody for 25-Hydroxyvitamin D3 as antigen. The electrode system, coated with a linker molecule, 4-aminophenylacetic acid (4-APA), along with Cobalt Chloride Dihydrate as a redox mediator over the Screen Printed Electrode immobilize the anti-Vit D3 antibody on the electrode surface. Application of  $\pm 500\text{mV}$  Triangular wave-form across the reference and working electrode and measurement of current in between auxiliary and working electrode is based on the use of average current when the excitation voltage transit from negative to positive to be used an indicator of 25-Hydroxyvitamin D3 in a serum sample.

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931051718 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : BAKE HARDENABLE STEEL WITH HIGH BAKE HARDENABILITY AND SHELF LIFE

(51) International classification	:C22C0038040000, C22C0038020000, C22C0038000000, C21D0006000000, C22C0021020000	(71) <b>Name of Applicant :</b> <b>1)TATA STEEL LIMITED</b> Address of Applicant :Bistupur, Jamshedpur, Jharkhand- 831001, India Jharkhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nemai Chandra Gorain</b>
(33) Name of priority country	:NA	<b>2)A N Bhagat</b>
(86) International Application No	:NA	<b>3)Niranjan Behera</b>
Filing Date	:NA	<b>4)Rajesh Shyam Pais</b>
(87) International Publication No	: NA	<b>5)Sourabh Chatterjee</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein is a bake hardenable (BH) steel with high bake hardenability and shelf life, the steel comprising Carbon (C) 0.001 to 0.003 wt.%, Silicon (Si) 0.01 to 0.04 wt.%, Sulphur (S) less than 0.1 wt. %, Phosphorus (P) 0.02 to 0.08 wt.%, Manganese (Mn) 0.2 to 0.5 wt.%, Nitrogen (N) less than 0.004 wt.%, Aluminum (Al) 0.03 to 0.06 wt.%, Niobium (Nb) less than 0.01 wt. %, Titanium (Ti) less than 0.01 wt. % and Boron (B) 0.0002 to 0.002 wt.%. The bake hardenable steel has the advantage of having a high shelf life and high bake hardenable value. The steel doesn<sup>TM</sup>t contain any micro-alloying elements which reduce the cost of production and usability of the steel. [FIG.1]

No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931051838 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A METHOD AND APPARATUS FOR MANUFACTURING OF HEADERS OF STEAM BOILERS

(51) International classification	:F28F0009020000, F28F0001200000, E04B0002740000, F17C0013080000, F16L0023100000	(71) <b>Name of Applicant :</b> <b>1)BHARAT HEAVY ELECTRICALS LIMITED</b> Address of Applicant :Regional office : Regional Operations Division (ROD), Plot No. : 9/1, DJ Block 3rd Floor, Karunamoyee, Salt Lake, Kolkata, West Bengal-700091, India and Registered Office: BHEL House, Siri Fort, New Delhi- 110049, India West Bengal India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)JEEVANAYAGAM KANAGARAJ</b>
(33) Name of priority country	:NA	<b>2)PERUMAL SIVAKUMAR</b>
(86) International Application No	:NA	<b>3)KARTHIKEYAN BALAMURUGAN</b>
Filing Date	:NA	<b>4)CHANDRAN MOHANRAM</b>
(87) International Publication No	: NA	<b>5)ANBALAGAN RAMESH KUMAR</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SUDIPTA KUMAR MAHANA</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method and apparatus for the manufacturing of headers of steam boilers. The method employs an apparatus (100) for the fit-up of a rectangular plate (24) and bracing plate (20) over the header pipe (21) during the manufacturing process. The apparatus further consists of a bottom clamp (1) defining a first semi-circular structure with two flanges (16a, 16b) elongated longitudinally at the ends of the bottom clamp (01). Further the top clamp (02) defines a second semi-circular structure with two flanges (17a, 17b) elongated longitudinally at the ends of the top clamp (01) a vertical post (03) defining a rectangular structure to which the top clamp (01) is welded through outer periphery, and a horizontal channel (05) fastened to the vertical post (03) by plurality of fastening means (09) wherein the bottom clamp (01) and the top clamp (02) are fastened together to define a circle. [TO BE PUBLISHED WITH FIG. 4]

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931051943 A

(19) INDIA

(22) Date of filing of Application :14/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : WATER PURIFICATION SYSTEM

(51) International classification	:C02F0001000000, C02F0001420000, F01N0003100000, C02F0001440000, C02F0001280000	(71) <b>Name of Applicant :</b> <b>1)Tripura University (A Central University)</b> Address of Applicant :Tripura University (A Central University), Suryamaninagar, Agartala - 799022, Tripura West, India. Tripura India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NATH, Harjeet</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A water purification system provided with selective filtering mechanism is disclosed. The system includes a water purification unit that includes an inlet configured to receive water from a water source; a set of sensors attached to the inlet. The set of sensors is configured to sense one or more attributes pertaining to quality of the received water. The water purification unit may include a plurality of filters operatively coupled to the inlet. The plurality of filters includes at least first set of filters and at least second set of filters. The system includes a set of control valves configured between the plurality of filters and the inlet. Based on the sensed one or more attributes, the set of control valves are configured to control flow of the received water through each of the at least first and second sets of filters.

No. of Pages : 26 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931052028 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A DETACHABLE, ELECTRICAL CONNECTION BOX FOR SEPARATELY EXCITED DC MACHINE HAVING OUTGOING CONNECTION ARRANGEMENT FROM EITHER SIDE

(51) International classification	:B60R0016023000, H02K0005220000, H01R0009260000, H01R0009220000, H01R0004300000	(71) <b>Name of Applicant :</b> <b>1)BHARAT HEAVY ELECTRICALS LIMITED</b> Address of Applicant :with one of its Regional Offices at REGIONAL OPERATIONS DIVISION (ROD), Plot No.: 9/1, DJ Block, 3rd Floor, Karunamoyee, Salt Lake City, Kolkata-700091, having its Registered Office at BHEL HOUSE, Siri Fort, New Delhi-110049, India West Bengal India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BASANT TAMRAKAR</b>
(33) Name of priority country	:NA	<b>2)JITENDRA KUMAR</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A detachable electrical connection box (55) for separately excited DC machine having incoming and outgoing power connections, to armature, field and control circuit comprising of, mounting bosses for base plate (01, 02); threaded disc for insulator pin (03), mounting boss for field terminal block (04); mounting boss for terminal rail assembly (05); base plate (06); insulator pins (07, 13); armature circuit bus bars (08,14); field terminal block (09); terminal rail assembly (10); insulating separator (11); insulation sheet (12); round insulating block (15); connection box housing (16); cable gland plate (21); gaskets (23, 24, 25); rubber beading (26); cable gland assemblies (36, 37, 38, 39); special bolt (51); removably attachable top cover (54); hardwares for tightening (27-35, 49, 50, 52, 53); characterized by accommodation of terminals for armature, field circuit and control circuit in an optimized manner facilitating outlet arrangement from either side of the machine for power connections.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931052355 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM OF DUAL BLOCK TYPE TREE FOR PRODUCING OIL AT A UNIQUE DESIGN PRESSURE

(51) International classification	:E21B0033035000, E21B0034040000, H01L0021673000, F16K0031122000, B67D0007780000	(71) <b>Name of Applicant :</b> <b>1)BHARAT HEAVY ELECTRICALS LIMITED</b> Address of Applicant :Regional Office: Regional Operations Division (ROD), Plot No. : 9/1, DJ Block 3rd Floor, Karunamoyee, Salt Lake, Kolkata 700091, West Bengal, Registered Office: BHEL House, Siri Fort, New Delhi-110049, India West Bengal India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RAJAMANICKAM ELAYARAJA</b>
(33) Name of priority country	:NA	<b>2)PANNEER SELVAM ARUNKUMAR</b>
(86) International Application No	:NA	<b>3)DHAKSHINAMURTHY LOGESH KUMAR</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a system of dual block type tree for producing oil from different depth of bores, placed in between tubing spool(16) and using wing valves (8,11) and connected both long and short flow adapter (14,15), said system comprising: at least two nominal bores (B1,B2);an offset with a predetermined value between two internal bores (B1, B2); at least three valve pockets for each bore (B1/B2) placed vertically with a predetermined offset value, one above the other namely lower master valve (02/05), upper master valve (03/06) and crown valve (04/07), wherein the center axis of the respective valve pockets in each bore placed vertically having a predetermined offset value; and characterized in that the system body is connected with studded flow adapters (14 and 15) on top with tapered seat to seal the tubing, at a predetermined design pressure, wherein the arrangement of both flow adapters (14,15) used to monitor and control the flow of oil pressure.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931052459 A

(19) INDIA

(22) Date of filing of Application :17/12/2019

(43) Publication Date : 18/06/2021

(54) Title of the invention : AUTOMATIC PANIPURI FLAVOUR DISPENSING MACHINE

(51) International classification	:A47J0031180000, B65B0003000000, A23G0009280000, A47J0031520000, G07F0013100000	(71) <b>Name of Applicant :</b> <b>1)Water N Spices Foodsz Pvt Ltd</b> Address of Applicant :203, Liya complex, PP Compound, Main Road, Ranchi, Jharkhand PIN Code: 834001 Jharkhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Harish Neotia</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE INVENTION AUTOMATIC PANIPURI FLAVOUR DISPENSING MACHINE The present invention relates to an automatic panipuri flavour dispensing machine. The automatic panipuri flavour dispensing machine is designed to serve panipuri flavor through nozzles. When a person takes panipuri under nozzles, sensor detects the object and activate the motor and a pre-set quantity of flavor is pumped. Figure of abstract: Fig. 1

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202034050322 A

(19) INDIA

(22) Date of filing of Application :19/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : BASEBOARD

(51) International classification	:E04F0019040000, B65G0021060000, H01L0031068000, B60J0010700000, B65D0001360000	(71) <b>Name of Applicant :</b> <b>1)PROGRESS PROFILES SPA</b> Address of Applicant :Via Le Marze, 7 31011 Asolo, ITALY Italy
(31) Priority Document No	:102019000023565	(72) <b>Name of Inventor :</b> <b>1)Dennis BORDIN</b>
(32) Priority Date	:11/12/2019	
(33) Name of priority country	:Italy	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A baseboard (10, 110), comprising a profiled element (11) having a substantially longitudinal extension. The baseboard comprises one or more facilitated breakage regions (20a, 20b) which define respective detachable portions (21a, 21b) which can be detached from the profiled element (11).

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202034050742 A

(19) INDIA

(22) Date of filing of Application :21/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ROTARY TOWER WITH BALLAST

(51) International classification	:A61K0009000000, A61K0038460000, G06F0016330000, C07K0014470000, A61Q0019060000	(71) <b>Name of Applicant :</b> <b>1)MANITOU ITALIA S.r.l.</b> Address of Applicant :VIA CRISTOFORO COLOMBO, 2 - LOCALIT CAVAZZONA CASTELFRANCO EMILIA (MODENA) ITALY 41013 Italy
(31) Priority Document No	:102019000023631	(72) <b>Name of Inventor :</b>
(32) Priority Date	:11/12/2019	<b>1)IOTTI Marco</b>
(33) Name of priority country	:Italy	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A composition of any one of claims 1-8, 11, and 13 for use in treating ASMD in a human patient. Use of a composition of any one of claims 1-8,11, and 13 for the manufacture of a medicament for treating ASMD in a human patient. The method of claim 15, the composition for use of claim 16, or the use of claim 17, wherein the ASMD is Niemann-Pick Disease type A/B or type B. The method, composition for use, or use of claim 18, wherein the treatment is for non-neurological manifestations of ASMD.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202034050966 A

(19) INDIA

(22) Date of filing of Application :23/11/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : OPERATOR VEHICLE WITH ASSISTED CENTRING DEVICE

(51) International classification	:G01S0003786000, G01D0005241000, A63B0023000000, H01Q0003040000, H02G0001080000	(71) <b>Name of Applicant :</b> <b>1)MANITOU ITALIA S.r.l.</b> Address of Applicant :VIA CRISTOFORO COLOMBO, 2 - LOCALIT CAVAZZONA 41013 CASTELFRANCO EMILIA (MODENA) ITALY Italy
(31) Priority Document No	:102019000024153	(72) <b>Name of Inventor :</b>
(32) Priority Date	:16/12/2019	<b>1)IOTTI Marco</b>
(33) Name of priority country	:Italy	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described is an operator vehicle, comprising: a platform (2), equipped with a seat (3); a tower (T), coupled to the seat (3) in a rotatable fashion about a main rotation axis; motor means, arranged to rotate the tower (T) about the main axis; a detector, arranged to detect the movement of the angular position of the tower towards a reference angular position relative to the main axis, and to emit a corresponding proximity signal. [FIGURE 1]

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202034052298 A

(19) INDIA

(22) Date of filing of Application :01/12/2020

(43) Publication Date : 18/06/2021

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(54) Title of the invention : A METHOD FOR MANUFACTURING A THIN-WALLED PART

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(51) International classification	:B23C0005100000, B23C0003180000, B29L0031080000, H05K0003180000, C09J0133080000	(71) <b>Name of Applicant :</b> <b>1)GF Machining Solutions AG</b> Address of Applicant :Kanalweg 4, 3550 Langnau i.E., Switzerland Switzerland
(31) Priority Document No	:19 215 452.4	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1)Andreas Finger</b>
(33) Name of priority country	:EPO	<b>2)Tim Day</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

The present invention is directed to a method for manufacturing a thin-walled part having curved surfaces, in particular a turbine blade by a machine tool comprising roughing process and semi-finishing process. At least one of the roughing process and the semi-finishing process is accomplished by flank milling.

No. of Pages : 18 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202034053904 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : OPERATING MACHINE WITH IMPROVED STABILISERS

(51) International classification	:E02F0009080000, B66F0009065000, B62D0049060000, E02F0003340000, E02F0009000000	(71) <b>Name of Applicant :</b> <b>1)MANITOU ITALIA S.r.l.</b> Address of Applicant :VIA CRISTOFORO COLOMBO, 2 - LOCALIT CAVAZZONA 41013 CASTELFRANCO EMILIA (MODENA) ITALY Italy
(31) Priority Document No	:102019000023835	(72) <b>Name of Inventor :</b>
(32) Priority Date	:12/12/2019	<b>1)IOTTI Marco</b>
(33) Name of priority country	:Italy	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described is a self-propelled operating machine (1) equipped with stabilizers which comprise a front stabilizing unit (2), mounted on a chassis (100) of the machine (1), which is movable on wheels and is fitted with a drivers cab (12) for an operator (O). The stabilizing unit (2) comprises a supporting frame (24) and two stabilizing arms (21, 22, 23), each of which includes a first segment (21) hinged to the frame (24) by a pin (25) located at a lower side of the first segment (21).

No. of Pages : 19 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202034054070 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : ARRANGEMENT AND METHOD FOR ADJUSTING BLADE GAP IN REFINER

(51) International classification	:D21D0001300000, D21D0001000000, D21D0001200000, B02C0007120000, B02C0007140000	(71) <b>Name of Applicant :</b> <b>1)Valmet Technologies Oy</b> Address of Applicant :KEILASATAMA 5, 02150 ESPOO, FINLAND Finland
(31) Priority Document No	:FI 20196089	(72) <b>Name of Inventor :</b> <b>1)ARONEN, Juha</b>
(32) Priority Date	:17/12/2019	
(33) Name of priority country	:Finland	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An arrangement and a method for adjusting a blade gap (12) in a refiner (1). The arrangement comprises at least one loading device (16) arrangeable to move at least one refining element (3, 4, 6, 7) of the refiner (1) in respect of at least one another refining element (3, 4, 6, 7) of the refiner (1) for adjusting the blade gap (12) between the refining elements (3, 4, 6, 7), at least one vibration measuring device (20) for measuring a vibration of the refiner (1) in operation, and at least one control unit (21) configurable to adjust the blade gap (12) between the refining elements (3, 4, 6, 7) by controlling the at least one loading device (16) to move the at least one refining element (3, 4, 6, 7) in respect of the at least one another refining element (3, 4, 6, 7) based on the measured vibration of the refiner (1).

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202037047547 A

(19) INDIA

(22) Date of filing of Application :30/10/2020

(43) Publication Date : 18/06/2021

(54) Title of the invention : SYNERGISTIC DISINFECTANT COMPOSITIONS HAVING ENHANCED ANTIMICROBIAL EFFICACY AND STABILITY, AND METHODS OF USING THE SAME

(51) International classification	:A01N0037360000, A01N0059000000, C11D0003200000, C11D0003480000, A01N0059200000	(71) <b>Name of Applicant :</b> <b>1)DIVERSEY, INC.</b> Address of Applicant :1300 Altura Road, Suite 125 Fort Mill, SC 29708 U.S.A.
(31) Priority Document No	:62/786176	(72) <b>Name of Inventor :</b>
(32) Priority Date	:28/12/2018	<b>1)TINWALA, Farida, H.</b>
(33) Name of priority country	:U.S.A.	<b>2)LI, Xiaobao</b>
(86) International Application No	:PCT/US2019/066283	<b>3)SILVA, Decio, R, Jr..</b>
Filing Date	:13/12/2019	<b>4)NABAR, Yogaraj</b>
(87) International Publication No	:WO 2020/139586	<b>5)GENGLER, Arnoud Ubald, Maria</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A synergistic disinfectant composition comprises a Cl-8 organic acid, an amino acid based surfactant, an anionic surfactant, and a stabilizing agent. The Cl-8 organic acid may include two or more types of the Cl-8 organic acids with at least one of the Cl-8 organic acids is alpha hydroxyl acid. The disinfectant composition has an antimicrobial activity of log reduction of at least 2 under Biocidal Product Registration (BPR) standard EN13727, EN1276, EN13624 or EN1499, and/or the EPA standard that applies the Quantitative Methods for Evaluating the Activity of Microbicides used on Hard, Non-Porous Surface issued by the Organisation for Economic Co-operation and Development (OECD). In addition, the disinfectant composition may be stable during storage and retain their antimicrobial activity after at least one month at 40 °C. When desired, the synergistic disinfectant composition may further comprise an oxidizing agent.

No. of Pages : 31 No. of Claims : 15

***CONTINUED TO PART- 2***