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 01st 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

15nd OCTOBER, 2021

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THE PATENT OFFICE
KOLKATA, 15/10/2021
Address of the Patent Offices/Jurisdictions
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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2	The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai – 400 037 Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in ❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli	5	The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector –V, Salt Lake City, Kolkata- 700 091 Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in ❖ Rest of India
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Website: www.ipindia.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 15/10/2021

• 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 है:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिहन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdtm@nic.in	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
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 ❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली.	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
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		

वेबसाइट: http://www.ipindia.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाए, 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 18th 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.202011026964 A

(19) INDIA

(22) Date of filing of Application :25/06/2020

(43) Publication Date : 15/10/2021

(54) Title of the invention : A MULTIPLEXER BASED MAC ARCHITECTURE IMPLEMENTATION ON FPGA

(51) International classification	:H04W0072120000, H04L0012931000, H04W0072100000, H04W0088020000, H04W0080020000
(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

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(57) Abstract :

Disclosed is a Signed Floating-point MAC architecture implementation on FPGA, in which each input of the Signed Floating-point MAC (SFMAC) is represented in M-bits and out of M-bits, two bits are reserved for the sign bits of the number and its exponent. The SFMAC architecture comprises of the Exponential Adder (EA), N-bit multiplier, Q-bit register, Exponential Comparator Circuit (ECC), Exponent Shifter Circuit (ESC), R-bit Adder and 2:1/4:1 Multiplexers of different sizes, 2’s complement circuits, and XOR gate. The full custom circuit design for MAC enhances the speed of operation and minimizes the power consumption, and an efficient multiplier improves the efficiency of a MAC unit.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/08/2020

(21) Application No.202011033906 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NOVEL PYRAZOLINE-5-ONE DERIVATIVES FOR CORONORY HEART DISEASE AND PROCESS THEREOF.

(51) International classification	:C07K0014470000, A61N0005100000, A61K0031537500, G01N0033564000, A61K0038080000
(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

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(57) Abstract :
The present invention is about synthesis of novel pyrazoline-5-ne derviatives which are used for the treatment of coronary heart disease. The process is cost effective and industrially scalable.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/09/2020

(21) Application No.202011038373 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ELECTROMAGNETIC POWER AMPLIFIER

(51) International classification	:H04L0027260000, H05K0003460000, H03F0001020000, G02C0007040000, A61K0047360000
(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

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(57) Abstract :
Electromagnetic power amplifier (EMPA) consists of 5 permanent magnets, separators with input & output systems and a horizontal hollow axial shell. This amplifier is used to amplify the input using permanent magnets as a source of energy where any type of macro level oscillating input gets amplified.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/09/2020

(21) Application No.202011039017 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RAIN WATER HARVESTING SYSTEM

(51) International classification	:E03B0001040000, E04D0013040000, E03B0003020000, E03B0003030000, H02J0003140000
(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

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(57) Abstract :
The present invention relates to Rain water supply and storage gravity system comprising of a fixed/semi folding support stand[1,200] mounted on foundation[2] with base plates[4], wherein the support stand is [1,200] is welded to a larger diameter pipe[8] housing a smaller diameter pipe[9] on both sides at its top, in which the pipes[8, 9] are fastened to each other and aligned at an angle of 95-105 degree with respect to the stand[1,200] to facilitate flow of rain water towards a drainage[13] in the middle. Said supporting stand[1,200] with pipes is provided at both ends with a connecting pipe[10] there between; multiple pipes are aligned in longitudinal[11] and transverse[12] direction intersecting each other between the pipes[8,9, 10] on both sides forming base frame supporting collection sheet[14]. The drainage[13] between the supporting stands[1,200] is provided with at least one hole[H] connected to a rain water supply pipe[14A] for supply of collected rain water.

No. of Pages : 49 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/09/2020

(21) Application No.202011041692 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN AUTOMATIC SANITIZING TUNNEL WITH BODY TEMPERATURE MONITORING SYSTEM FOR COVID-19

(51) International classification	:A61B0005010000, A61B0005000000, E06B0011080000, H04M0001725000, A61F0007080000
(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

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(57) Abstract :
The disclose invention is an automatic sanitizing tunnel which upon detection of a human being through ultrasonic sensor ,activates the thermal sensor.The thermal sensor on capturing the image and recording the body temperature of the person, the thermal sensor activates the actuator of the sanitizing chamber in-built in the tunnel by disinfecting the micro-organisms present on the fabric or accessories of the particular person. The body temperature is recorded before the turnstile gate grants access to the user, if the temperature recorded is above 98 degree Fahrenheit generates deny entry of that user and alerts the nearby authorities for immediate attention. [To be published with figure 1]

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/10/2020

(21) Application No.202011045547 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A METHOD OF DEMINERALIZATION OF SCALES, SHELLS AND BONES

(51) International classification	:F02C0003300000, H04L0029120000, C02F0005000000, C08B0037080000, F03B0007000000
(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

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(57) Abstract :
The present invention is disclosing a method of demineralization of scales, shells and bones of water species. The method having several steps ranging from collecting a plurality of water species to performing the scaling activity on the plurality of water species. Then, autoclaving the plurality of water species scale, shells and bones in a first and a second flask. Further, adding the plurality of water species scale, shells and bones either in probiotic and DNS medicines. Finally, getting a demineralized plurality of water species scale, shells and bones out of the plurality of water species scale, shells and bones with calcium supplements. With the present invention the extraction of the calcium supplements and the demineralized scales, shells and bones of the water species is resulting into maximum output at minimum cost in an optimum time period.

No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/10/2020

(21) Application No.202011047641 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MULTITARGET-DIRECTED TRIAZOLE BRIDGED CYCLOARYL ANALOGUES FOR TREATMENT OF ALZHEIMER'S DISEASE

(51) International classification	:C07D0417120000, C07D0409060000, C07D0233560000, C07D0249080000, C07D0241040000
(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

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(57) Abstract :
The present invention provides a multitarget-directed triazole bridged cycloaryl analogues comprising of cycloheptane or adamantane derivatives, which are having significant and balanced inhibition of dual cholinesterases including acetyl cholinesterase (eeAChE) and butyryl cholinesterase (eqBuChE), neuroprotective effect on SH-SY5Y neuroblastoma cell line and anti-amyloid ß (Aß) aggregatory activity for the treatment of Alzheimer's disease (AD). It provides a triazole ring system as a hydrogen bond/acceptor group, cycloheptane or adamantine rings as a cycloaryl ring system, alkyl as a linker and substituted benzyl ring system on the other end of triazole ring to retain the cholinesterase (ChE) inhibition activity to enhance the therapeutic effect of the said anti-AD agents.

No. of Pages : 39 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/12/2020

(21) Application No.202011056619 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN EFFICIENT OVERHEAD CRANE SYSTEM FOR USE IN MATERIAL HANDLING AND STORAGE PROCESSES

(51) International classification	:H01L0021677000, H01L0021670000, B66C0017000000, G06Q0010100000, B63B0027000000
(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

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(57) Abstract :
The present invention provides an efficient overhead transportation system that allows multiple transportation vehicles to transport individual loads simultaneously in X-Y-Z direction on guided path. In an embodiment, the present invention provides an efficient overhead crane system for use in automatable material handling and storage comprises of plurality of overhead cranes each supported by a transport vehicle, a guided rail matrix on each level, a lift mechanism at one or more ends of the guided rail matrix, and a control system wherein the system allows said plurality of overhead cranes supported by transport vehicles mounted over the guide rail matrix to travel in X-Y-Z direction for material handling and storage. The said guided rail matrices may be supported by roof ceiling using a suitable screwing technique. The said guide rail matrix is such that a plurality of cells are formed and the transport vehicle runs on guide rails surrounding the cells. The control system includes controllers such as but not limited to programmable logic controllers, microcontrollers etc. In another embodiment, the present invention provides a plurality of overhead crane each having a transport vehicle wherein each overhead crane and transport vehicle are integrated with a microcontroller and a built-in sensing unit to avoid collision between vehicles as well as material carried. The transport vehicle optionally comprises robotic arms or portable machinery to place material appropriately or perform work (like packing, machining, other operations) to produce goods.

No. of Pages : 31 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/03/2021

(21) Application No.202111009202 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN ELECTRO-MECHANICAL ANTI-DROWNING AUTONOMOUS RESCUE SYSTEM FOR SWIMMING POOL

(51) International classification	:G08B0021080000, B63C0009000000, E04H0004060000, B66B0001340000, B63C0009150000
(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

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(57) Abstract :
Disclosed is an electro-mechanical anti-drowning autonomous rescue system for swimming pool which consists of embedded board, plurality of sensors, elevator, plurality of lights, buzzer, wireless communication device and control panel. The present invention uses sensors which are embedded on the elevator-surface to detect anything on the elevator surface or any individual triggers a push-pull switch which is arranged on the surface of pool-walls and elevator, or anyone triggers the panic button on control panel outside the pool, the elevator position in the swimming pool automatically change from lowered position to the raised position and generates alert operations to prevent the drowning. The present invention provides autonomous solution to prevent the person from drowning in the swimming pool.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/03/2021

(21) Application No.202111009203 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A THERMAL IMAGING TECHNIQUE FOR ASSISTING VEHICLE OPERATOR ON ROAD

(51) International classification :G06K0009000000, G08G0001160000, H04N0005330000, B60R0001000000, B60W0040020000
(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 an thermal imaging (IR) technique for assisting vehicle operator on road safety. The thermal camera set on the front end of the vehicle capture the image on road during rainy , foggy or bad weather condition especially in hilly terrain. The system is pre-trained with an on-board algorithm to process the frames from the images and calculates the confidence level. The system displays the virtual feed on the display unit set on the dashboard near the driver upon detection of object detection and lane detection. The system provides accurate detail for on-road safety while driving to prevent any untoward incidents.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2021
(21) Application No.202111009974 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMIT-O: AN RFID BASED CONTACT TRACING SYSTEM FOR LIMITING THE SPREAD OF CONTAGIOUS DISEASES

(51) International classification :G06K0019070000, C12Q0001700000, G06K0007000000, H04L0012260000, G06K0019077000
(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
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(57) Abstract :
A Radio Frequency Identification technology based contact tracing system is designed for tracing all the nearby centers of contact to prevent the spread of contagious diseases like COVID-19. The data transacted during the RFID communication can later be accessed to construct the pathway to the source of infection and to those who are at higher risk of being exposed to the virus: The economic and standalone system does not require the Internet for its operation, reducing privacy threats, thus becoming an absolutely secured alternative for contact tracing.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2021

(21) Application No.202111012078 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN EDGE DEVICES TO MONITOR SOCIAL DISTANCING IN CLASSROOM

(51) International classification :H04L0029080000, H04L0012240000, H04L0012660000, H04L0012460000, G16H0050200000
(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 is an edge devices to monitor social distancing in classroom which uses plurality of edge nodes placed in classroom, edge gateway and IoT cloud. The present invention captures real time frames using camera (154) module and extract the required information using on-board deep learning algorithms and edge nodes share data with gateway (101) which uploads the received data into IoT cloud (102) for further data analysis. The present invention is easy to use and portable. The present invention further facilitates the real time monitoring of social distancing in the classroom to follow social distancing norms.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/04/2021

(21) Application No.202111015568 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN AUTOMATED SYSTEM FOR REAL-TIME SOLAR INFORMATION ACQUISITION

(51) International classification :G06F0001140000, E21B0047120000, G04C0010020000, G09B0029000000, A01K0029000000
(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 discloses an automated system for real time solar information acquisition which comprising a clock; an application (105); a BLE module (106); and a GPS module (107). The clock further comprising a microcontroller (100); a WiFi module (101); a display (102); a RTC module (103); and a power supply (104). The clock node communicates with the application (105) using WiFi module (101) or BLE module (106) to collect longitude and time zone information of the present location. After pre-processing of received information and RTC values, solar calculator function calculates the solar information and displays on the display (102). The present invention eliminates the need to solve complex mathematical equations manually to provide real time solar information.

No. of Pages : 25 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2021

(21) Application No.202111019611 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A WEB BASED FRAMEWORK FOR EASY AND FAST AI DEPLOYMENT

(51) International classification	:H04L0029060000, G16H0030200000, G06N0005020000, H04L0012240000, G06N0003000000
(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

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(57) Abstract :
The present invention discloses a web based framework for easy and fast deployment of artificial intelligence model in which artificial intelligence models and software is deployed in the central custom server and remote access is provided to the authorized users. The web application is developed for accepting the CT scan image reports, which further sends securely to the central custom server for authentication. After authentication, the server sends reply to the query and diagnosis results are displayed on the user's webpage for further consideration. The present invention provides scalability and effectiveness of the artificial intelligence models/software by removing physical access barrier and providing user-friendly interface.

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/05/2021

(21) Application No.202111023017 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A NOVEL SINGULAR EXCIPIENT FOR TABLET GRANULATION OF DRUGS AND PROCESS THEREOF

(51) International classification :A61K0009200000, A23L0007100000, A61K0036880000, A61K0009160000, C12N0009080000
(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 describes the whole banana peel flour as singular excipient for tablet granulation of drugs susceptible to oxidative degradation. Diluents, binders and disintegrants are added to tablet formulations to provide bulk, cohesiveness and particulate break down respectively to granules which, on compression, form a compact mass as tablet. However, certain excipients possess some additional properties and offer certain added advantages apart from their defined excipient activity. The dried flour prepared from banana peels contains ingredients like starch, amylose, cellulose, lignin, pectin, reducing and non-reducing sugars, and phenolic as well as flavonoid compounds. As banana peel is rich in phenolics and flavonoids, it exerts its antioxidant activity to prevent degradation of oxidation prone drugs. The banana peel flour (BPF), therefore will prove to be a valuable excipient to be used in formulation of tablets, especially those containing drugs prone to oxidation while offering the bio-friendly solution of disposal of banana peel waste.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/06/2021

(21) Application No.202111026344 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM TO CONTROL SOLAR POWERED SEED SPRAYER MACHINE WITH DATA INTERPRETATION USING IOT

(51) International classification	:H04W0004800000, H04L0029080000, A01M0007000000, A01B0079000000, H04B0015000000
(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

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(57) Abstract :
The present invention provides a system to control solar powered seed sprayer machine with data interpretation using IoT in which Raspberry pi (101) receives real time video feed through camera (100) and controls the machine (104) and sprayer (107) as per commands received from the application (110) through the communication node (111). The present invention uses RF (Radio Frequency) and BLE (Bluetooth Low Energy) for communication which eliminates any dependency over internet. The present invention further facilitates solar powered seed sowing and seed spraying machine for agricultural farm which maximizes the productivity by providing optimal use of resources.

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/06/2021

(21) Application No.202111028770 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WASTE WATER FILTERING SYSTEM AND PROCESS THEREOF

(51) International classification :C02F0001000000, C02F0001280000, C02F0001440000, G01N0033180000, B01J0020200000
(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
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(57) Abstract :
The present invention describes an ecofriendly, sustainable, cost effective method for maintaining the Basic Oxygen Demand (BOD), Chemical Oxygen Demand (COD and Total dissolved Solid (TDS) in water bodies by installing a filtration system as a longitudinal channel onsite of the water body to be cleaned. The filtration system uses a plurality of filtration material in a combination of agriwaste, biochar and activated carbon. The system is further supported by solar cells to maintain the flow of water along the channel. The filtration system is more suitable for cleaning onsite water bodies.

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/07/2021

(21) Application No.202111033082 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NOVEL ELECTRO-THERMAL TRANDERMAL DEVICE AND PROCESS THEREOF

(51) International classification :A61K0009700000, A61B0010000000, G01K0013000000, A61F0007000000, A61K0047380000
(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
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(57) Abstract :
The present invention describes the novel electro-thermal formulation and process thereof. Electro-thermal transdermal skin patches have formulated to survive the unfavorable cold conditions at high altitudes by increasing blood circulation and stimulating body temperature. An electronic gadget device is also incorporated along with this transdermal patch, which facilitate the steady penetration of drug constituents through the tough surface of stratum corneum. The design of transdermal skin patch includes the outer surface, baking film, drug reservoir, drug releasing membrane, adhesives, over laminated tapes and sensory module. This electro-thermal formulation can be used by the tourist and the native people of the high-altitude regions while standing, walking and even during mountain climbing.

No. of Pages : 33 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/08/2021

(21) Application No.202111034843 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MOTORIZED TROLLEY FOR CARRYING OXYGEN CYLINDERS IN HOSPITALS/COVID CENTRES.

(51) International classification	:A61B0005145500, A47J0039000000, A61B0006000000, A61M0016100000, B62B0003100000
(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

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(57) Abstract :
In the present time there are manually dragged cumbersome trolley systems available in hospitals for transfer the oxygen cylinders. It has been observed that a trolley is used in hospitals to bring and carry an oxygen cylinder which is capable to provide services for the ground floor only. However, in multi-floor hospitals, the medical staff has to face many difficulties such as more than one person is required to transfer cylinders from floor to floor. It also takes a lot of time and effort as well. Keeping this in mind, an effort has been made to design and develop a solution to address this problem being faced medical staff in hospitals/ Covid Centres. The invention named I02 is a motorized electric trolley that is capable of carrying two oxygen cylinders at a time (D-Type of 47 liter capacity). Only one person can transport two cylinders at a time with the help of this drive that too with least efforts. Even a lady staff can also operate this motorized trolley system. This mechanism can carry two numbers of D-type oxygen cylinders as well as other accessories such as surgical equipment and kits, machinery.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/08/2021

(21) Application No.202111034865 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN ELECTRONIC NOSE DEVICE TO IDENTIFY THE RIPENING IN FRUITS BY SENSING VOLATILE ORGANIC COMPOUNDS

(51) International classification :G01N0033000000, A23B0007152000, A23B0007148000, B82Y0015000000, G01N0027414000
(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 invention describes the design and working of electronic nose device that is developed for fruit ripeness monitoring and detection. The designed electronic nose contains metal oxide semiconductor (MOS) sensors integrated with a microcontroller board to detect and extract the meaningful features of volatile organic compounds (VOCs) which fruit emits during their life cycle, and an artificial neural network (ANN) algorithm is used for pattern recognition. The electronic nose is proved to be reliable to classify fruit samples into three different fruit ripening states (Ripe. Un-ripe, and Over-ripe) with high precision and recall. This Electronic Nose device is also able to differentiate non-fruit odor from fruit odor and this Electronic Nose predicts the fruit ripeness state without destructing the fruit making it an economical device.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/08/2021

(21) Application No.202111037448 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SELF-HEALING METHOD OF AN OBJECT IN A SCRIPT AND A SYSTEM THEREOF

(51) International classification :G06F0011360000, H04M0003240000, G06F0040247000, G06F0011070000, G06K0009620000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present disclosure relates to a system (100) and a self-healing method (400) of an object in a script under test. The system (100) comprises a self-healing engine (104), a multi-locator database (202), a relationship database (204), and a synonym database (206). The self-healing engine (104) is configured to work in parallel with a test automation controller (102). A newly developed software is tested on the test automation controller (102) on a user interface (UI) (10). When the test automation controller (102) detects a failed object, the self-healing engine (104) replaces the failed object with a new locator or a new object for the test of the script to be successful. The method (400) is an automatic method and is performed without manual intervention.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2021

(21) Application No.202111039827 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WATER FILTER APPARATUS FOR EXTRACTING URANIUM FROM WATER

(51) International classification :C02F0001000000, C02F0001280000, C02F0103000000, C02F0001320000, B65D0085840000
(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 :
A water filter apparatus is disclosed. The disclosed water filter apparatus comprises a storage tank for storing water, and a filtration unit. The filtration unit includes a filter container having an inlet to receive water from the storage tank, and a filter material arranged in a portion of the filter container between the inlet and an outlet of the filter container. The filter material includes a bed of boehmite pellets and at least two layers glass wool including a first glass wool layer and a second glass wool layer. The water received from the storage tank flows through the first glass wool layer, the boehmite pellets and then the second glass wool layer. The boehmite pellets are adapted to extract uranium from the water flowing through the boehmite pellets. The boehmite pellets are made from discarded articles made of aluminum, such as bottle canes, bottle caps and lids.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/09/2021

(21) Application No.202111040447 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RESKUE ALARM SYSTEM

(51) International classification	:G08B0021040000, G08B0025010000, H04W0004900000, G01P0013000000, E21B0033068000
(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

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(57) Abstract :
Provided is a method of an emergency alarm system with a novel method of integrating a motion sensor with an alarm system to make it as a zero motion/inactivity detecting censor. This emergency alarm system triggers of within few seconds of inactivity/lack of motion. The emergency alarm system triggers of 3 different sets of alarms being an internal buzzer, an external hooter and unlocking of the doors

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/09/2021

(21) Application No.202111041026 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DESIGN AND DEVELOPMENT OF SMART GARMENT AS AN IOT PLATFORM DEDICATED TO TOURISTS

(51) International classification :G06F0016360000, G06F0008100000, G06F0008700000, G06F0008200000, G06F0008600000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :
In this work, we have dealt with the issue related to the design and development of ecosystems or IoT platforms dedicated to smart garments (SGs) or more specifically to tourists SGs. We therefore first proposed to semantically enrich one of these methodologies, which we subsequently followed for the specification of the architecture of the D-SHIRT ecosystem. The latter is based on the semantic framework developed beforehand (in particular the SMS ontology) and is distinguished by its ability to adapt and reconfigure its functionalities to different use scenarios thanks to a semantic specification of reconfiguration mechanisms that operates on code fragments deployed on the Smartsensor of the IoT platform. As part of this work we considered the hypothesis where the smart sensor (in particular the one that embeds the processing logic) is designed on top of a self-reconfigurable framework and integrating low-level reconfiguration mechanisms allowing to offer code fragment lifecycle management services.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2021

(21) Application No.202111042808 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A COMPOSITION AND METHOD FOR PREPARING SANITARY AND CLEANING AGENT

(51) International classification :C11D 3/48
(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 discloses a composition and method for preparing sanitary and cleaning agent. The composition includes, but not limited to, at least one aliphatic short chain antimicrobial fatty acid or mixture thereof with one weak carboxylic acid; and a strong acid, which is nitric acid or a mixture of nitric acid and phosphoric acid and adding buffering agent. Further, the buffering agent is selected from a group consisting of alanine, ammonia, ammonium acetate, ammonium benzoate, ammonium bicarbonate, ammonium hydroxide, benzoic acid, beryllium hydroxide, calcium acetate, calcium carbonate, calcium hydroxide, calcium tartrate, deuteroammonium hydroxide, diethylamine, glutamic acid, hydrazine, hydroxylamine, magnesium acetate, magnesium benzoate, manganese carbonate.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111042837 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CHUTE EROSION PROTECTION SYSTEM

(51) International classification :E02B 3/12
(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 :
A chute erosion protection system (202) for a coal transfer chute (102, 106) in a coal handling plant (100) is disclosed. The chute erosion protection system (202) includes a horizontal plate (402) adapted to be fixed to a mother plate of the coal transfer chute (102, 106). The horizontal plate (402) is disposed along a width of the coal transfer chute (102, 106). The chute erosion protection system (202) includes a plurality of ribs (404) formed along a length of the horizontal plate (402). Each rib (404) is formed perpendicularly to the horizontal plate (402). The chute erosion protection system (202) includes a supporting wedge (406) adapted to be disposed below the horizontal plate (402) for supporting the horizontal plate (402) on the mother plate. The horizonal plate, the plurality of ribs (404), and the supporting wedge (406) are formed such that incoming coal forms a protective layer on the mother plate.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111042896 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A WASHABLE AND REUSABLE FACEMASK COMPRISING PVDF COMPOSITE NANOFIBERS AND A PROCESS FOR SYNTHESIS OF PVDF COMPOSITE NANOFIBERS

(51) International classification :A41D 13/11
(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 :
A washable and reusable facemask (20) with an antiviral property and an antibacterial property prepared using Polyvinylidene fluoride (PVDF) composite nanofibers is provided. The washable and reusable facemask (20) includes one of PVDF-ZnO composite nanofiber and PVDF-PEI composite nanofiber. The washable and reusable facemask (20) is configured to have enhanced surface functionality, antibacterial and antimicrobial properties, permeability, reusability with low pressure drop and high filtration efficiency. The present invention also provides the process for synthesis of PVDF composite nanofibers with an antiviral and antibacterial properties. The process provided by the present invention is simple, scalable, cost-effective and easy to integrate for fabrication of washable and reusable N95/N99 facemask (20). The process provides the PVDF composite nanofibers with significant characteristics attributed to potential air filter application including biocompatibility, controlled diameter, porosity, permeability and filtration efficiency.

No. of Pages : 45 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111042984 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EMBEDDED SYSTEM BASED SENSING OF FLOW BEHAVIOUR OF BIOCOMPATIBLE TITANIUM ALLOY TI-6AI-7NB AT HIGHER ELEVATED TEMPERATURE

(51) International classification :A61C 8/00
(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 main objective of the present invention is to obtain the required shape of the dental implants, replacement of joints and knee caps a suitable forming process is to be analyzed. The present study illustrates that the material is to be formed to the required shape at elevated temperatures.

No. of Pages : 12 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111043006 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM FOR PRODUCING HYDROGEN BY UTILIZING SUNLIGHT AND METHOD THEREOF

(51) International classification :H01M 8/0612
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :
The system has at least one photovoltaic cell module, powering an electrolyzer, producing hydrogen, and having hydrogen storage means; at least one fuel cell is included to produce hydrogen power, improving efficiencies and the availability of hydrogen electricity photovoltaic's.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111043008 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM FOR DETECTING FRAUD AND ITS CONTROL IN FINANCIAL MANAGEMENT AND METHOD THEREOF

(51) International classification :G06Q 20/40
(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 :
A fraud detection system and technique in enabling a worldwide wide area network payment transaction. The approach includes receipt of selling data, payment details from the purchaser, and analysis of transaction information for fraud. If the analysis shows fraud, a human is notified of enhanced transaction information for fraud analysis. The technique includes, in one format, doing regulatory assessments to evaluate whether the transaction seems fraudulent. Suspect data rules and speed rules can be included in rule-based analyses. Velocity rules generally determine if the excessive activity has been conducted to conclude that the transaction is fraudulent. The suspect data criteria are used to evaluate whether billing, shipment, selling addresses, telephone and account numbers, and other data are in syntactic format proper. In one version, the technique also includes basic transaction information filtering. In one instance, the technique includes requesting permission, based on payment information, from a third party, such as a financial institution. This technique may be used as part of a system that comprises personal computers, server computers, and other personal computers. Some can communicate via the Web and others that can communicate over dedicated lines of communication.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111043017 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AMAZON'S PRODUCT RECOMMENDATIONS ON MARKET REQUIREMENTS ACTIVITY USING MACHINE/ DEEP LEARNING

(51) International classification :G06Q 30/06
(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 :
Our InventionAmazon's Product Recommendations on Market Requirements Activity Using Machine/ Deep Learningis a Once chose to prepare six unique models, the framework isolated the models as far as the liking score of their preparation information. The ones had a partiality limit of 15 were prepared utilizing twofold cross-entropy, which forces especially hardened punishments on erroneous characterizations that get high certainty scores. In any case, the ones that had a partiality limit of 8, Amazon analysts utilized both twofold cross-entropy and B-weighted double cross-entropy — where it likewise loads the punishment caused by every information thing as per its fondness score. An activity chiefly based information record is in like manner made that is accustomed end up ace coordinated, modified data. In tests, the best-performing model figured out how to expect item explanations with 97% precision for action classes and 92% for crowd classifications. Furthermore, when asked by human commentators to demonstrate the arrangements they conceded to, they said, a normal of 81% of the time the framework"s per-thing expectations have been right. The assistance is used to propose thing to customers of a seller"s site. The assistance delivers the proposition using an in the past made table that maps things to courses of action ofsimilar" things. The comparable qualities reflected by the table square measure maintained the total interests of the neighborhood customers. to prepare individual proposition, the help recuperates from the table the similar things list love the things celebrated to hold any significance with the customer.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111043019 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AUTOMATIC FRAUD DETECTION IN MOBILE MONEY TRANSACTIONS USING MACHINE LEARNING

(51) International classification :G06Q 30/00
(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 :
Our InventionAutomatic Fraud Detection in Mobile Money Transactions Using Machine Learning" is this review investigates a successful information digging framework for extortion location in versatile monetary exchanges. Endeavoring two wide utilized administered AI models, arbitrary timberland and inclination boosting, the review intends to test and look at their appropriateness in the location of false records. Both arrangement models were created utilizing a manufactured dataset of portable cash exchanges, which was produced dependent on an example of genuine exchanges removed from a global versatile cash administration organization. Indeed, benefits, for example, these make Fintech progressively well known among customers. Be that as it may, since Fintech exchanges are comprised of data, guaranteeing security turns into a basic issue. Weaknesses in such frameworks allow them to remain uncovered to fake demonstrations, which cause extreme harm to customers and suppliers the same. Consequently, strategies from the space of Machine Learning (ML) are applied to recognize peculiarities in Fintech applications. They target dubious movement in monetary datasets and create models to expect future cheats.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111043020 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HEALTHCARE SERVICES PROVIDED AT HOME USING FOG COMPUTING AND CLOUD COMPUTING

(51) International classification :G06Q 50/22
(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 :
Our Invention Healthcare Services gave at home using Fog Computing and Cloud Computing is a COVID-19 pandemic, the world has defied a basic test in the extension of the speed of dreariness and mortality among people, particularly the more seasoned developed patients. The risk of securing pollutions may augment during the visit of patients to the clinical facilities. Haze Computing and Cloud Computing wound up being useful in updating the clinical consideration quality organizations for the patients. The current creation targets obtaining an unrivaled arrangement and encounters into the best and novel IoTbased applications, for instance, Cloud Computing and Fog Computing and their executions in the clinical benefits field. The investigation approach used the arrangement of the information from the informational indexes like PubMed, Google Scholar, MEDLINE, and Science Direct. There are five assessment articles picked after 2020 ward on the thought and disallowance models set for the survey. The disclosures of the examinations associated with this creation show that Fog Computing and Cloud Computing augmentation the transport of clinical consideration quality organizations to patients. The advancement showed high capability to the extent solace, immovable quality, prosperity, and cost-ampleness. Future assessments are expected to unite the models that offered the best quality kinds of help using the Fog and Cloud Computation strategies for the unmistakable customer necessities. Also, edge preparing could be used to in a general sense work on the plan of prosperity organizations at home.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111043034 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A DEVICE FOR THE RESUSCITATION AND TRANSPORTATION OF PATIENTS WITH CORONAVIRUS DISEASE 2019

(51) International classification :A61M 16/00
(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 :
There was a need to provide a device for the resuscitation and transportation of patients with coronavirus disease 2019. Current invention provide such device which comprises - an outer tube (1); - a reservoir bag (2) connected to one end of said outer tube (1) through the horizontal ends of a T-piece connector (4T); - an adjustable pressure limiting (APL) valve (4V) connected to vertical end of said T-piece connector (4T) having an inlet, an outlet and a pressure range of 0–60 cm H2O; - an adult HEPA hydrophobic bacterial/viral filter (4F) connected to said adjustable pressure limiting (APL) valve (4V) having 1.7 cm H2O resistance at 30 L/min and a viral filtration efficiency of 99.999%; - a non-vented silicone mask with head harness (3) connected to another end of said outer tube (1) through an adjustable pressure limiting valve (4A); - an inner tube (5) carrying oxygenated air from an oxygen source, passing and running through said outer tube (1) and ending at said adjustable pressure limiting valve (4A). This arrangement effectively filters the bacteria and virus exhaled (if any) by patient. This arrangement effectively reduce the risk of infection transmission related to breathing device from patient to health care worker. It is easy to manufacture and economical.

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2021

(21) Application No.202111043049 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM OF AUTOMATED BRAIN HAEMORRHAGE EXTRACTION FROM COMPUTED TOMOGRAPHY IMAGES AND METHODS THEREOF

(51) International classification :G06T 7/11
(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 :
Due to rupturing and damage of blood vessels bleeding clots occurs inside the brain matter. These blood clots inside the brain are called haemorrhage. Haemorrhage extraction plays a vital role in the clinical diagnosis and treatment planning of critical diseases associated with the brain and the central nervous system (CNS). The significant information about haemorrhage like size, location, thickness and other features are crucial for physician to plan the treatment strategy. Brain haemorrhage segmentation aims to extract the blood clot size of the brain vessels. Automatic brain haemorrhage segmentation from CT images to date is still a challenging and computationally demanding task. This paper aims to propose an automatic brain haemorrhage segmentation technique from CT images which exploits the left and right symmetry structure of brain to locate the haemorrhage and level set method to extract the exact boundary and shape of the haemorrhage. The proposed method facilitates the fully automatic segmentation with higher rates of precision, consistency and lower computational time as compared to manual segmentation. It does not need any registration method, no a training data is required and can be implemented in real time.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2021

(21) Application No.202111043068 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM OF THREE-LAYERED SECURED AUTHENTICATION AND KEY AGREEMENT PROTOCOL FOR LTE NETWORKS

(51) International classification :H04L 9/08
(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 :
This summary is provided to introduce a selection of concepts, in a simplified format, that are further described in the detailed description of the invention. This summary is neither intended to identify key or essential inventive concepts of the invention and nor is it intended for determining the scope of the invention. To further clarify advantages and features of the present invention, a more particular description of the invention will be rendered by reference to specific embodiments thereof, which is illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail with the accompanying drawings.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2021

(21) Application No.202111043102 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TWO FACTOR AUTHENTICATION BASED ON IOT SENSORS FOR SECURE AND AUTOMATIC PAYROLL SYSTEM

(51) International classification :G06Q 10/10
(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 relates to a system and method for secure and automatic payroll system using IoT sensors and two factor authentication. The objective of present invention is to solve the anomalies presented in the prior art techniques and using advanced technique for making the payroll system more automatic and secure. The disclosure presents a payroll system which comprises an electronic tag based on IoT sensors which monitor and collect attendance and time data of each and every employee of the organization. The monitoring and collection of attendance and time is completely automatic and flawless. Its aim is to build a robust, secure and completely automatic payroll system. The proposed invention comprises various modules for performing every function of the payroll systems. The SQL (structured query language) database server is used to store the database related to the employees and employee's pay of an organization. The SQL database server is more secure and efficient to easily retrieve data related to an organization where a bulk data is involved. The proposed invention comprises a central IoT gateway which control all other IoT devices and all other devices communicate to this central IoT gateway. Each and every employee of an organization is registered with unique IoT sensors based electronic tag which may be but not limited to in the form of wrist wearing tag having various IoT sensor and performs various functions. The present invention (i.e., payroll system) comprises various modules i.e., attendance monitoring module, payroll calculation module, payroll review and approval module and payroll transferring module. As the name indicates, these modules perform different functions of the organization related to the payroll systems and are completely automatic. The attendance monitoring module marks the attendance of the employee based on the data taken by the central IoT gateway from electronic tag and calculates the total working hours spent on a day. The salary is calculated automatically using the system proposed in the invention while authenticating the review and transfer of salary to the account of the employee authenticated using two factor authentications (i.e., one time password and 2 biometric authentications). Thus, a complete and automatic payroll system is proposed for every kind of organization.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202111043123 A
(19) INDIA
(22) Date of filing of Application :23/09/2021
(43) Publication Date : 15/10/2021

(54) Title of the invention : INTELLIGENT SYSTEM AND METHOD FOR PROVIDING A VIRTUAL CONSULTATION SERVICE BASED ON ARTIFICIAL INTELLIGENCE

(51) International classification :G06Q 50/10
(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
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(57) Abstract :
The present invention relates to Intelligent system and method for providing a virtual consultation service based on artificial intelligence. The objective of the present invention is to solve the problems in the prior art technologies related to online services management of the consultation.

No. of Pages : 27 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2021

(21) Application No.202111043162 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYNERGISTIC COMPOSITION FOR PHYSICAL ENDURANCE

(51) International classification :A61K 31/198
(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 :
A synergistic composition for physical endurance is disclosed. The synergistic phytoextract formulation comprises of a predetermined amount of maltodextrin, dextrose and water, a predetermined amount of ginger extract, a predetermined amount of high octane medium chain triglyceride (MCT) oil and a predetermined amount of amino acids. The amino acids comprises of taurine, leucine, isoleucine and citrulline malate. The synergistic composition of the present invention provides quick energy by maltodextrin and dextrose, muscle recovery by the amino acids, constant slow energy by the high octane medium chain triglyceride (MCT) oil and enhanced digestibility by the ginger extract.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2021

(21) Application No.202111043243 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BIO-INFORMATICS MODEL FOR TASK ASSIGNMENT AND FAULT REMOVAL IN CLOUD ARCHITECTURE

(51) International classification :G06F 9/50
(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 :
Cloud computing is an emerging field and currently is being used in almost all the economical and manufacturing fields. Cloud architecture is designed in a fashion, that it can execute the tasks provided by the client in minimum time, minimum cost and without any fault. These assigned tasks need some resources for their execution. These resources are to be provided by the data center with help of virtual machines available there. Proper assignment of virtual machines to each task is very difficult. If this is not done properly, there is huge wastage of resources. Number of tasks is left unexecuted just because they are not getting their required resources or they have to wait for much longer time. Even if virtual machines get assigned to the tasks, there is no guarantee of proper resource assignment. Either resources are provided in bulk or there is a scarcity of resources for the task. It is also an arduous process. Two biotechnology algorithms named FASTA and BLAST are used for handling this proper resource assignment problem. These algorithms work in biological field for DNA mapping. They promptly map the complete strip in parallel. We used these biological algorithms for resource assignments for the tasks to be executed. The model explains how they are nifty in resource assignment problem and provides its solution in very less amount of time. Finally, error occurring conditions are also explained and solved in detail with this model.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2021

(21) Application No.202111043254 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EFFECT OF INTRINSIC AND EXTRINSIC FACTORS ON JOB SATISFACTION

(51) International classification :G06Q 10/06
(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 :
Our InventionEffect of intrinsic and extrinsic factors on job satisfaction" is a The review plans to quantify the effect of inherent and outward factors that impact work fulfillment. The motivation behind the review is to create a hypothetical model dependent on the previous scales and measure the connection between them. The invented model has been tried, subsequently demonstrating that there exists a connection between these three scales. Quite possibly the main issue centered by supervisors is to guarantee adequacy and productivity of HR in associations. How might adequacy and productivity be accomplished in an association. The response to this inquiry depends vigorously on work fulfillment of staff. Occupation fulfillment alludes to the overall mentality created by the person towards her/his work. Thus, work fulfillment can"t be seen yet felt. This inclination relies additionally upon workplace and natural conditions. As a theoretical idea, work fulfillment comprises of a huge number. In any case, more essentially, factors guaranteeing position fulfillment are fundamentally partitioned into two gatherings to be specific, characteristic and extraneous occupation fulfillment factors. Characteristic variables allude to the demeanor of the person towards her/his work while the extraneous components allude to the elements identified with the work space. At the point when consolidated, these two factor bunches guarantee the work fulfillment of the person. These two key factor bunches influence both physiological and mental condition of the person.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2021

(21) Application No.202111043329 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DATA SCIENCE BASED DETECTION OF DEMOGRAPHICAL INFORMATION

(51) International classification :G06K 9/00
(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 relates to detection of demographical information of an image, based on data science. The method may include capturing, through an image sensor, an image of a field of view, acquisition of the captured image from the image sensor, detection of one or more human faces within the acquired image to create one or more facial images corresponding to the detected one or more human faces, transformation of each of the created facial image into corresponding grey-scale version to create one or more grey-scaled facial images, extraction of the facial features from the each of the created grey-scale image, wherein the facial features are selected from a skin texture, skin tone, a facial geometry, a distance between eye-balls, facial hairs, a shape of eye, a size of eye, a shape of nose, a size of nose and wrinkles calculation of the biologically inspired feature (BIF) vectors by convolution of the each extracted facial features with a Gober filter and creation of a matrix for the calculated BIF vectors for the each created grey-scale image, generation of a mathematical model based on the pre-stored human face images and application of the generated mathematical model to the created matrix to estimate the demographical information for the each created grey-scale images, notification of the estimated demographical information to a computing device.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2021

(21) Application No.202111043436 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A WEARABLE HEALTH MONITORING AND TRACKING SYSTEM

(51) International classification :A61B 5/00
(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 relates to a wearable health monitoring and tracking system. The wearable system comprises a control panel and a sensor hub operably coupled to each other via a connector. The components of the wearable device are enclosed in a flexible housing that is worn entirely on the wearer's body. The present invention non-invasively measures the vital signs and other health parameters of the user. The control panel includes Inertial Measurement Unit, Barometer and Temperature Sensor, Control Unit, Power Control Unit, Wireless Power Control Unit, Memory Storage unit, Alert unit, Ultra-wide band module and GPS module. The sensor hub includes a LED and Photodiode controller, a temperature sensor, a plurality of LED's, a plurality of photodetector, photoplethysmography sensor, Electrocardiogram electrodes and Galvanic skin response electrodes. The system also calculates the elevation and location of the wearer. The system also provides the location of the wearer. The system also determines the core body temperature of the wearer.

No. of Pages : 31 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2021

(21) Application No.202111043439 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A FINGER WEARABLE HEALTH MONITORING AND TRACKING SYSTEM AND METHOD OF OPERATION THEREOF

(51) International classification :A61B 5/00
(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 invention provides a finger ring vital sign monitoring device having sensors for measurement of Heart rate, Heart rate variability, Blood pressure, Respiration, Respiration volume, ECG, QRS wave, GSR, Temperature, Altitude, Orientation, movement, Sleep pattern, Stress levels, Distance travelled, idle time, fall, jump, steps, location, position, acceleration, deceleration, speed, distance and other parameters. The finger ring 100 includes a mother board 100a and flexible sensor board 100b, operatively coupled to each other to be worn as a finger ring. The finger ring 100 transmits the measured parameters, to be stored on cloud server or any smart device. It also acts as a beacon which and transmits parameters for its location to be tracked in real time with different technology including Bluetooth, and Ultrawide band. The RFID programmable inbuilt tag operates the programmed instructions, which can be programmed by the app functions by the user.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/09/2021

(21) Application No.202111043554 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POLLUTION MONITORING AND ALERTING SYSTEM

(51) International classification :H04L 29/08
(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
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(57) Abstract :
A pollution monitoring and alerting system (100) comprising: sensors (102a-102n) configured to sense signals representing attributes of a monitored area, wherein the attributes are selected from one of, an air quality, a water quality, a sound, a soil quality, or a combination thereof; a controller (112) connected to the sensors (102a-102n), wherein the controller (112) is configured to: receive the sensed signals representing the attributes of the monitored area from each of the sensors (102a-102n); determine a numerical value for each of the attributes based on the received signals; compare the determined numerical value of each of the attributes with a minimum predefined threshold of each of the attributes stored in a database (114); generate a notification when the determined numerical value of one of the attributes is above the minimum predefined threshold; and transmit the generated notification to a user device (108) of an operator through a cloud server (106).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/09/2021

(21) Application No.202111043560 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SOCIAL DISTANCE DETECTION USING VIDEO TRACKING SYSTEM

(51) International classification :g06q 1/00
(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 :
This pandemic has spread to over 188 countries around the world. On October 15, 2020, WHO(World Health Organization) declared that there have been 38,394,169 confirmed COVID-19 cases and 1,089,047 deaths around the world. Many countries were in the mode of lockdown for a very long time in order to prevent this virus from spreading, people were forced to wear masks and to maintain a specific social distance from other people. For some months, even the essential food products were not even available in the markets. This virus created havoc worldwide even is a dangerous threat till now. Some countries have developed their own vaccines to stop Coronavirus from spreading, but new mutants of this virus have also started spreading now. Till now, it is very difficult to predict the duration and spread of this pandemic. The situation is becoming worse with each passing day. This method will help us to detect the objects, in this case, people, and track their movements. Anyone can track whether people are maintaining a proper distance from each other or not. This method will use three algorithms, object detection, object tracking, and distance measure algorithm, mainly to detect the objects, then track them, and then to analyze the distance between them.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/09/2021

(21) Application No.202111043569 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EXTRACT OF CURCULIGO ORCHIOIDES GAERTN. ROOT HAVING ANTIOBESITY ACTIVITY

(51) International classification :A61K 36/88
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present invention relates to a composition the medicinal plants of genus Curculigo have emerged as a good source of the traditional medicines. To investigate the antiobesity activity of extract of C. orchioides root in progesterone-induced obesity rats. A dose of 500 mg/kg and 1000 mg/kg extract of C. orchioides root and 50 mg/kg Orlistat shows progressive restore in blood glucose, lipid profile, and oxidative stress biomarkers in all treatment groups during study. The study suggests that the extract of Curculigo orchioides root dose dependent manner produce antiobesity effects in progesterone-induced obesity rats.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/09/2021

(21) Application No.202111043586 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IOT ENABLED METHOD FOR DETECTING IMPRESSIONS BASED ON ARTIFICIAL INTELLIGENCE AND DEEP LEARNING

(51) International classification :G06K 9/00
(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
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(57) Abstract :
The present invention relates to an IoT enabled method for detecting impressions based on artificial intelligence and deep learning. In this invention, a method for finding the latent facial using an algorithm and maximizing the efficiency is proposed to solve the problem of recognition of different types of fingerprints and expressions. This invented method is useful for enhancing both latent fingerprints and recognition of facial impressions using Internet of things with its usage and augmentation in their pattern prediction and regression. Following invention is described in detail with the help of Figures of sheet 1 showing an overview of the research approach with the figures used.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2021

(21) Application No.202111043665 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE DRIVEN DEVICE FOR ASSISTING PATIENTS UNDER ISOLATION

(51) International classification :F24F 3/16
(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 invention provides an apparatus for assisting patients under isolation, comprising: a robot (100) that includes: an automatic pill dispenser (101), a blood pressure monitoring unit (103), an SPO2 and temperature reader (105), a plurality of tray compartments (107), a trash compartment (107a), a UV sanitization unit (109), a cleaning/mopping and air purifier unit (111), a display device (113), a handle (115), an autonomous charging unit (117), and a processor (119) configured to control, dispensing of a pill, monitoring of the patient's blood pressure, SPO2, and temperature, pushing of trash in a garbage bag when the tray is full, sanitizing the area around the patient , sensing of polluted particles in air and turn ON the air purifier of the cleaning/mopping and air purifier unit (111), cleaning of floor, sensing of patient's mood and suggest activities based on patient's mood, assisting the patient to walk on a floor, and charging of the robot.

No. of Pages : 37 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2021

(21) Application No.202111043737 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR REAL-TIME PERFORMANCE TRACKING OF STUDENTS DURING AN ONLINE CLASS

(51) International classification :G06Q 50/20
(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 generally relates to a system (100) and a method (200) for real-time performance tracking of students during an online class. The system (100) monitors the students during the online class, using a web activity monitor (116). To test their attentiveness periodically, the system invokes a response from selected students at regular intervals. This response is analyzed, using a response analyzer (118). The performance tracker (124) performs real-time tracking of in-class performance of each student based on their web activity and the responses generated by them during the online class. A reporting unit (126) reports the student's performance to teachers and parents. Thus, the system (100) aids in enhancing responsiveness and performance of the students and assists the teachers in efficient assessment of students.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2021

(21) Application No.202111043753 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING MEDICAL RECORDS

(51) International classification :G16H 10/60
(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 disclosure relates to a system (102) for facilitating health record management, the system includes a processor (202) operatively coupled to a memory (204), the memory storing instructions executable by the processor to receive a request from a plurality of user terminals (106) associated with one or more subjects (108). The processor receives identity attributes of the one or more subjects from the plurality of user terminals and generate a unique profile for corresponding subjects. The processor receives health attributes provided by the one or more subjects (108). The received identity attributes and health attributes provided by the one or more subjects are accessed by an authorized healthcare provides (110), wherein based on the accessed identity attributes and health attributes of one or more subjects, the processor (202) configured to provide with a list of potential medical diagnoses to corresponding subjects.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2021

(21) Application No.202111043806 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VEHICLE SEAT VACANCY IDENTIFICATION USING IOT AND IMAGE PROCESSING TECHNIQUE

(51) International classification :G06K 9/00
(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 use of image processing technologies has exploded in recent years. Image processing Digital pictures may be detected and processed using this technique in a wide range of applications. Image processing incorporates face recognition in some way. To locate a person"s face in a certain region, it"s utilized. Many applications, such as facial identification, people monitoring, and photography, use face detection. Using a camera and a facial recognition method, the systems can identify and count the number of passengers in an electric car. In the electric car, a camera is mounted and linked to a Raspberry Pi 2 model. An onboard camera will record pictures of people sitting in their seats as the electric car departs its station. To minimize the amount of noise in the pictures, the software will modify and enhance them. 4G connection is used to transmit the pictures to the server. Afterward, the server will use facial recognition technology and count the number of people in the electric car to analyze the pictures. To determine how many seats are available in an electric car, the system uses the number of people in the vehicle and the number of pictures.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2021

(21) Application No.202111043890 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATIC ASSESSING AND MONITORING OF A USER'S ACTIVITY

(51) International classification :H04W 4/021
(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 relates to a system and method for automatic assessing and monitoring of a user's activity in a predetermined area. Particularly, the Invention provides an automated student conduct regulatory system, capable of monitoring students' routine inside a school campus, thus, enabling school management and the parents to monitor the students in real time by maintaining their attendance, temperature, zone-based location and activity records, then generating reports on a remotely-hosted online platform.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2021

(21) Application No.202111043894 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SELF-ADMINISTERED DEVICE FOR COLLECTION OF NASOPHARYNGEAL WASH SPECIMEN FOR MICROBIOLOGICAL TESTING

(51) International classification :A61F 5/44
(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 :
Discloses herein a device for collection of nasopharyngeal sample for microbiological testing comprises two spherical shaped nostril occluding balls (101 and 102); which are interconnected and attached with a strap (103); said Balls have central hole; and One ball is attached with collection bag (104), the other ball is attached with syringe through port (105); wherein the ball meant for syringe is attached with a syringe loaded with normal saline.The device is snuggly fixed with nostril with the help of strap; and Normal saline is pushed into one nostril through the ball. Further, the normal saline passes through nasopharyngeal route, reach the opposite nostril and get collects in collecting bag which is attached to the opposite nostril and the sample is transferred to a sterile plastic bottle and will be sent to microbiological lab for testing.

No. of Pages : 21 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2021

(21) Application No.202111043901 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM FOR REWARDING USER BASED ON VERIFICATION OF ACTIVITIES PERFORMED FOR CARBON FOOTPRINT REDUCTION

(51) International classification :G06Q 30/02
(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 provides a system for rewarding user based on verification of activities undertaken for carbon footprint reduction. A control unit of a rewarding system 116 5 clusters activity data of a first user 102 after receiving activation signal from the communication device1 104. In addition, the rewarding system 116 analyze the activity data and sensor data based on comparison with pre-defined data for electronic verification. Further, the rewarding system 116 identify a second user 112 near the activity location of the first user for in-person verification of the activity data. Further, the rewarding system 116 calculates reward point for the 10 first user 102 and the second user 110 based on activity weightage. The rewarding system 116 add cryptocurrency coins equivalent to the reward point to node wallet of the first user 102 for the verified activity and node wallet of the second user 110.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2021

(21) Application No.202111043908 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR TRANSMITTING STREAM OF DATA PACKETS SECURELY OVER THE NETWORK

(51) International classification :H04L 9/06
(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 :
According to an embodiment of the present invention, the present invention provides a method for transmitting stream of data packets securely from one end to other over network, the method includes: receiving a set of data packets from a first computing device associated with a first user, wherein the received set of data packets are segregate into at least a first set of data packets and a second set of data packets; encrypting the stream of data packets at least twice to generate an encrypted stream of data, wherein the first encryption is performed by utilizing an initialization vector and a third set of data packets to generate a first encryption, and wherein a second encryption is performed by utilizing the initialization vector and the second set of data packets to generate the encrypted stream of data; and embedding the generated stream of data with one or more multimedia files by utilizing embedding technique such that the encrypted stream of data is concealed without leaving any traces of being embedded.

No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2021

(21) Application No.202111043930 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A WEARABLE SENSOR BASED CUSTOMIZED MENSTRUAL CYCLE PREDICTOR

(51) International classification :A61B 5/00
(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 disclosure relates to a wearable customized menstrual cycle and ovulation prediction system. The system includes a wearable device having a plurality of sensors providing physiological parameters; a memory module storing physiological parameters measured from the sensors on a data server; and a display displaying predicted menstrual cycle and ovulation date. The sensors are selected from at least one of hemoglobin sensor, SpO2 sensor, heart rate sensor, body temperature sensor, and respiratory sensor. The system is portable and IoT based.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2021

(21) Application No.202111044029 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MULTIFUNCTIONAL CART SYSTEM FOR EMERGENCY TRANSPORTATION OF PATIENTS

(51) International classification :A61G 1/04
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Today, patient's efficient movement, comfort and speed of providing urgent medical attention are important criteria. Many studies show that most secondary injuries and enhanced medical problems occur while transferring patients. Medical care during the first hours orGolden Hour" is important for successful treatment of patients. Equally important is providing safe, efficient working conditions for the hospital staff and caregivers as strenuous movement and handling of the patient stretcher trolleys may cause injuries to caregivers. Objective of this invention is to solve anomalies present in prior art techniques relating to quick and safe patient movement, to and from hospital critical care facilities. This new invention disclosures generally relate to the movement of patients under aMultifunctional Cart System for Emergency transportation of Patients". It discloses the parts, sub-assemblies, tracks and particularly to a composite Stretcher Unit device used for the movement of critical, disabled, elderly or infirm patients.

No. of Pages : 38 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2021

(21) Application No.202111044050 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTION OF AN ABNORMAL POSTURE OF A PERSON

(51) International classification :A61B 5/00
(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 relates to detection of an abnormal posture of a person. The method may utilize, a cervical sensor, a gas sensor, a heart sensor, a force sensitive resistor sensor, a position determination sensor, a current location determination sensor etc. The proposed disclosure utilizes aforementioned sensors to transmit alerts to provide an indication about the abnormal posture of the person, the presence of alcohol in the surrounding ambience or the health condition of the person, transmitting, a notification to a computing terminal, wherein the notification comprises the abnormal posture of the person, determined current location of the person, status of alcohol in the surrounding ambience, and the health condition of the person.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202111044052 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :PROCESS FOR PRODUCING REFINED NUTRACEUTICAL COMPOSITION FROM CORCHORUS DEPRESSUS (L.)"

(51) International classification :A61K 31/444
(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 belongs to the field of pharmaceutical science. More, particularly the invention pertains to process for producing refined nutraceutic composition from Corchorus depressus (L.) against Antioxidant & hepatoprotective activities. Further, this invention relates to determination of extractive values, foreign matters and ash values of Corchorus depressus (L.) extract.

No. of Pages : 24 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202111044270 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POLYMER-BASED PIEZOELECTRIC HYDROPHILIC NANOCOMPOSITES

(51) International classification :B01D 67/00
(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 relates to a piezoelectric hydrophilic nanocomposite (PHNC) membrane for voltage sensing, wherein said piezoelectric nanocomposite (PNC) membrane comprising a polymer blend of a poly(vinylidene fluoride) (PVDF), carbon nanofibers (CNF), and an ionic polymer; wherein said poly(vinylidene fluoride) (PVDF) is in ß-phase; and wherein said ionic polymer is poly(2-acrylamido-2-methyl-1-propane-sulfonic acid) (PAMPS). The polymer blend of said poly(vinylidene fluoride) (PVDF), carbon nanofibers (CNF), and said ionic polymer is used in the various proportions, such as 98/2/0, 80/2/18, 70/2/28, and 90/2/8. A voltage sensor comprising said piezoelectric hydrophilic nanocomposite (PHNC) membrane is also disclosed. The voltage sensor having a sensing voltage at 0.2 Hz in the range of 0.62 to 3.65 V.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202111044287 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM FOR VIDEO FRAMES DETERMINATION USING A MACHINE LEARNING & ARTIFICIAL INTELLIGENCE INTERFACE

(51) International classification :G06N 20/00
(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 discloses a system for Video Frames determination Using a Machine Learning & Artificial Intelligence interface. The system includes, but not limited to, an input device provided with the machine learning & artificial intelligence interface for receiving a plurality of training raw videos as input, each respective training raw video of the first plurality being associated with a respective set of training master videos, each training master video of a given respective set of training master videos indicating respective cropping characteristics defined for the associated respective training raw video. Further, the input device is further connected with a processing unit to generate predicted cropping characteristics for any given input video, and further cropping characteristics for any particular input videos comprise coordinates of cropping boundaries with respect to the particular input video prior to cropping.

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2021

(21) Application No.202111044310 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MEMBRANE AIR FILTER

(51) International classification :B01D 63/02
(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 invention discloses membrane air filter device 100 for reducing air pollution by separating the nitrogen from the air, said device 100 comprising: a frustum box 201 which comprises an outer layer 202; a cylindrical box 203, a bundle of hollow fiber tubers 204; a battery-operated fan 205; and an air exhaust 206. It should be noted that each of the cylindrical box 203, bundle of hollow fiber tubers 204, battery operated fan 205, and air exhaust 206 is enclosed in the frustum box 201. The method of reducing air pollution comprising: receiving pure air from the environment by passing through said outer layer 202 of the frustum box 201; flowing pure air to the bundle of hollow fiber tubes 204 by said battery-operated fan 205; separating oxygen and argon from the pure air through a gas separator membrane of fiber; and storing oxygen enrich air in said cylindrical box 203 for combustion purpose.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2021

(21) Application No.202111044311 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A DETACHABLY ATTACH MEMBRANE AIR FILTER FOR CONCENTRATING OXYGEN AND METHOD THEREOF

(51) International classification :B01D 46/24
(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 relates to a detachably attach membrane air filter for concentrating oxygen and method thereof. The air filter for concentrating oxygen for internal manifold of combustion engine comprised of a frustrum shaped box having a circumferential center spaced base plate, a circumferential distal end plate and at least two strip along hollow slant, at least two semi-cylindrical outer filter connected in-between the strip of the frustrum shaped box, A cylindrical box extended from central upper part of the frustrum shaped box through the circumferential center spaced base plate and detachably mounted to a combustion chamber of a vehicle, A tubular passage placed centrally at one end of the cylindrical box and a fan unit pressurized pure air to flow from the frustrum shaped box into cylindrical box though the tubular passage. The tubular passage further comprised of a LiAgX zeolite bed portion and a AgA zeolite bed portion.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2021

(21) Application No.202111044320 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND SYSTEM TO REGISTER A MULTI MEDIA ATTACHMENT OF AN ELECTRONIC COMMUNICATION MESSAGE

(51) International classification :H04L 9/32
(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 proposed system encompasses plurality of sub-embodiments to register a multimedia file (image) of an electronic communication message. It comprises of a blockchain network, one or more computing devices, interconnected with the network interface. Blockchain network utilizes hash tags to track the movement of the file in blockchain network.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2021

(21) Application No.202111044336 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SHIELDED TRANSFORMER AND SHIELD THEREOF

(51) International classification :B32B 27/08
(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 relates to a shield for use in a transformer. The shield includes a plurality of layers. The plurality of layers includes a first layer [102], a second 5 layer [104], and a third layer [106]. The first layer is made of cow dung paint. The second layer is made of a fiber reinforced plastic. The third layer is made of a rubber. The first layer acts as a coolant and decreases the effect of radiations emitted from the transformer. The second layer further decreases the effect of radiations emitted from the transformer. The third layer acts as an 10 insulator and reduces the risk of electric shock to one or more entities associated with the transformer. The first layer and the third layer are made of biodegradable material. Further, the plurality of layers includes a layer of one or more sensors to monitor the temperature of the transformer.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2021

(21) Application No.202111044502 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN ELECTRIC VEHICLE USING ANN REGULATOR FOR REGENERATIVE BRAKING

(51) International classification :B60L 15/20
(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 disclosure relates to a method for enhancing efficiency of an electric vehicle integrated with the RBS through ANN regulator, and a vehicle thereof. The method involves estimating SOC battery and speed of the vehicle. If a brake pedal is engaged, then a braking force is calculated else the method involves estimating the SOC battery and the speed again. The braking force applied is calculated for both front and rear wheels. Thereafter, the regenerative braking energy is calculated using ANN regulator. The method further involves adapting the regenerative braking energy to brake current. If maximum SOC is achieved, PID controller may be set for regenerative braking with MOSFET. Another option may be locating the controller for regenerative battery with battery. Finally, the method involves executing and regulating the duty cycles for achieving stable torque regenerative braking.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2021

(21) Application No.202111044503 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A HEAD MOTION CONTROLLED WHEELCHAIR

(51) International classification :A61G 5/10
(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 disclosure relates to a head motion-controlled wheelchair. The wheelchair includes a circuit board which includes Hall effect sensors attached to a head of a user of the wheelchair. The wheelchair includes at least one pair of radio-frequency (RF) electronic modules; an electrically operated switch; DC geared motors; and a microcontroller. The electronic modules include transmitter and receiver modules of at least 433 MHz frequency. The electrically operated switch includes 4 SPDT relays for operating at least two DC motors of the wheelchair. The wheelchair can be operated in forward, backward, left and right directions. The microcontroller is an Arduino Uno.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/10/2021

(21) Application No.202111044546 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE PROPELLED OBJECT RECOGNITION CAMERA

(51) International classification :G06N 3/063
(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 :
An artificial Intelligence enabled mobile device (100) is disclosed in present application. The present invention provides the AI enabled mobile device (100) with a neural processing unit (106) that is integrated with a processor (102) and adapted to directly work with one or more hardware blocks (108) for performing an on-device computing by utilizing machine learning techniques. In present invention, further a camera (110) is propelled with artificial intelligence (AI) based object recognition to provide advancement in various image capturing and processing features.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/10/2021

(21) Application No.202111044707 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLC BASED SYSTEM FOR EMERGENCY VEHICLE MANAGEMENT AND INTELLIGENT TRAFFIC CONTROL AT ROAD INTERSECTIONS

(51) International classification :G08G 1/08
(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 :
An improved traffic control system is disclosed. The disclosed system comprises at least one traffic light unit configured on at least one road intersection and comprising light sources of at least green color and red color; detectors configured on each road connected to the road intersection to detect vehicles on the road; and at least one PLC configured at the at least one road intersection. The PLC is configured to receive input signals from the detectors based on the detected vehicles; determine a vehicle density on each road the received input signals; determine a phase for each road which has highest priority to get green signal; arrange road segments for green signal and red signal; and transmit traffic signals to the traffic light unit at the intersection for activating the light sources for real time traffic control. The PLC give preference to the road with presence of emergency or VIP vehicles for reducing travel time of VIP or emergency vehicles.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202111044812 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM FOR MULTI-LEVEL AUTHENTICATION FOR SECURE ATTENDANCE AND METHOD THEREOF

(51) International classification :H04L 29/06
(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 discloses a system for multi-level authentication for secure attendance and method thereof. The system and method include, but not limited to, a memory unit to store input-output data values in real-time communication; one or more processing units having processors / microcontrollers provided in a computer network, wherein the memory unit is disposed in communication with the processor and storing processor executable instructions, the instructions comprising instructions to: a user interface working based on Rivest Sherman Adleman (RSA principle) provided on a user device to provide a multi-level authentication. Further, the multi-level authentication levels divided into the three levels to authenticate the user so that only the authorized user can access the system through the user interface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2021

(21) Application No.202117044494 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITE WEAR COMPONENT

(51) International classification :B22D19/02,B22D19/14,C22C1/05
(31) Priority Document No :20166110.5
(32) Priority Date :27/03/2020
(33) Name of priority country :----------
(86) International Application No :PCT/EP2021/057409
Filing Date :23/03/2021
(87) International Publication No :WO 2021/191199
(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 discloses a hierarchical composite wear component comprising a reinforcement in the most exposed part to wear, the reinforcement comprising a three-dimensionally interconnected network of periodically alternating millimetric ceramic-metal composite granules with millimetric interstices, said ceramic-metal composite granules comprising at least 52 vol%, preferably at least 61 vol%, more preferably at least 70 vol% of micrometric particles of titanium carbide embedded in a first metal matrix, the ceramic-metal composite granules having a density of at least 4.8 g/cm³, the three-dimensionally interconnected network of ceramic-metal composite granules with its millimetric interstices being embedded in the second metal matrix, said reinforcement comprising in average at least 23 vol%, more preferably at least 28 vol%, most preferably at least 30 vol% of titanium carbide, the first metal matrix being different from the second metal matrix, the second metal matrix comprising the ferrous cast alloy.

No. of Pages : 19 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/05/2020

(21) Application No.202021019555 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM AND A METHOD FOR CONTROLLING AIR FLOW IN AN APPLIANCE

(51) International classification :B60H0001000000, A61G0007057000, D06F0039000000, B01D0046440000, F24F0013060000
(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 :
A system (100) and a method (200) for controlling air flow in an appliance (10). The system (100) includes a valve (102) adapted to facilitate uniform distribution of air flow to at least one compartment (10MC) in the appliance (10). The system (100) includes a control member (104) integrated with the valve (102), where the control member (104) is adapted to move the valve (102) therein to at least one of vary and uniformly distribute air flow to at least one compartment (10M) of the appliance (10). The system (100) induces low air turbulence and less energy loss. Fig. 4a

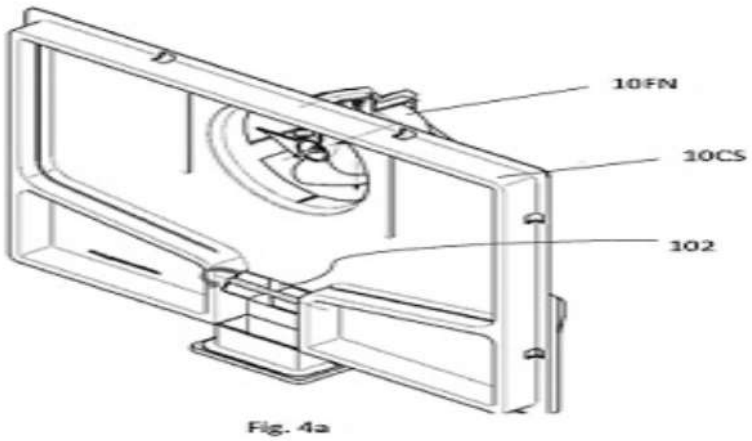


Fig. 4a

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/05/2020

(21) Application No.202021019558 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM AND A METHOD FOR DRYING CLOTHES

(51) International classification :A47B0045000000, B66F0009140000, A01D0082000000, E02F0003760000, B60H0001000000
(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 :
A system and a method for drying clothes. The system 100 includes a pair of mounting members 104 adapted to be coupled towards a left edge L1 and towards a right edge R1, a first frame 106 slidably connected to the mounting members 104, a second frame 108 pivotally connected to the first frame 106 and an air blower unit 110 connected to the first frame 106. The first frame 106 includes a plurality of vents 112 formed at predetermined locations. The second frame 108 is adapted to be displaced from a retracted position to an extended position. The second frame 108 is adapted to hold at least one item for drying at the extended position. The air blower unit 110 is configured to blow air on the item located on the second frame 108 through the plurality of vents 112 formed on the first frame 106. FIG. 2

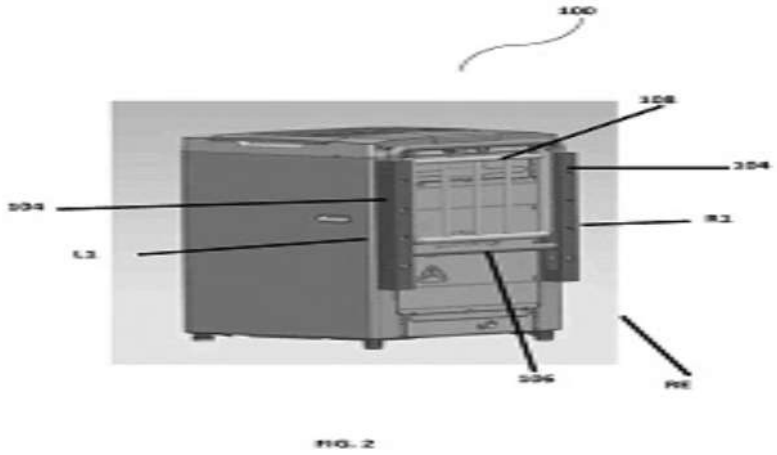


FIG. 2

No. of Pages : 40 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/07/2020

(21) Application No.202021030972 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A ROTARY JOINT WITH SIPHON AND SEALING MECHANISM

(51) International classification	:D21F0005100000, D21F0005020000, F26B0013180000, F16B0019000000, F26B0011040000
(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

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(57) Abstract :
ABSTRACT A ROTARY JOINT WITH SIPHON AND SEALING MECHANISM The present disclosure relates to a rotary joint (2) with a siphon (9) and sealing mechanism comprising a housing (7) defining an annular passage with a first end (62) and a second end (64), the first end (62) configured to be coupled with a head (34) of the siphon pipe (9) and the second end (64) configured to be coupled with a siphon nut (35). The flat profiles (56) are configured along the periphery of the first end (62) and splines (37) configured along the periphery of the second end (64) at predetermined spaced apart locations. A seal (42) made of composite material is provided on the other end of the siphon pipe (9) and constrained between a seal flange (26) and a primary flange (43). The rotary joint facilitates resistance against angular displacement of the siphon pipe (9) and prevent inadvertent mixing of fluids thereby.

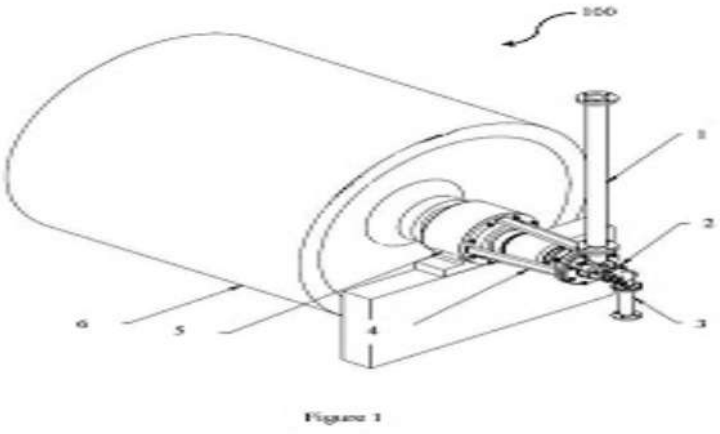


Figure 1

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/06/2021

(21) Application No.202121024673 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : LIGHTWEIGHT HORIZONTAL AXIS, MULTI-JAR BALL MILLING MACHINE WITH NYLON-6 (C12H22N2O2)N JARS TO GRIND LESS HARD MATERIALS AND NYLON-6 JARS WITH INTERNAL STEEL LAYER TO GRIND EXTRA HARD MATERIALS.

(51) International classification	:C08K0003220000, E01C0023088000, B02C0017100000, B02C0019180000, B23Q0011000000
(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

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(57) Abstract :
Various materials such as Metals, Metal oxides, Nano particles, etc. are needed to be grind for various applications like Energy storage devices, powder metallurgy, Nano-sciences, etc. If the size of these materials is less, than its performance increases. This is done by conventional ball milling machine but it has its own limitations the major one being that Vertical Axis ball milling machines are very noisy in operation and are bulky in construction thereby consuming more power. Moreover vertical axis ball milling machines are confined to only one jar arrangement which limits the efficiency of ball milling machines. Most of the ball milling machine weight is depended on their jars. So we have designed a Lightweight horizontal axis, Multi-jar ball milling machine with Nylon-6 (C12H22N2O2)n jars to grind less hard materials and Nylon-6 jars with internal steel layer to grind extra hard materials which solves all the problems stated above.

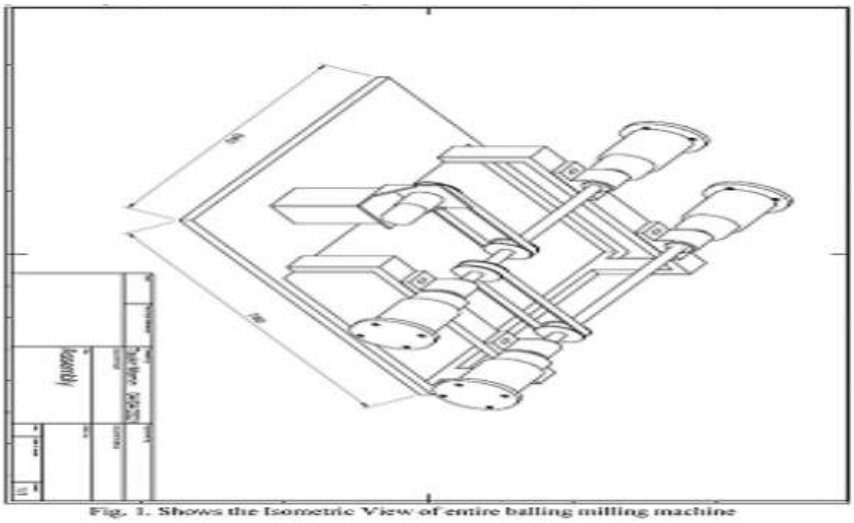


Fig. 1. Shows the Isometric View of entire balling milling machine

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202121025621 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYNBIOIC CHUTNEY

(51) International classification :A23L0033135000, A61K0035740000, A23K0010180000, A61K0035390000, C11D0003220000
(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 consists of a synbiotic (combination product of probiotic and prebiotic properties) chutneys and the process for preparation thereof using fermented cereal-pulse slurry. Traditional way preparation of chutney lacks probiotic components and some other nutritional components. The present invention describes method of preparation of varieties of chutneys imparting them probiotic & prebiotic nature and additionally supplying with important nutritional factors. The process of making however does not change the traditional flavor of these products and hence are equally acceptable by consumers.

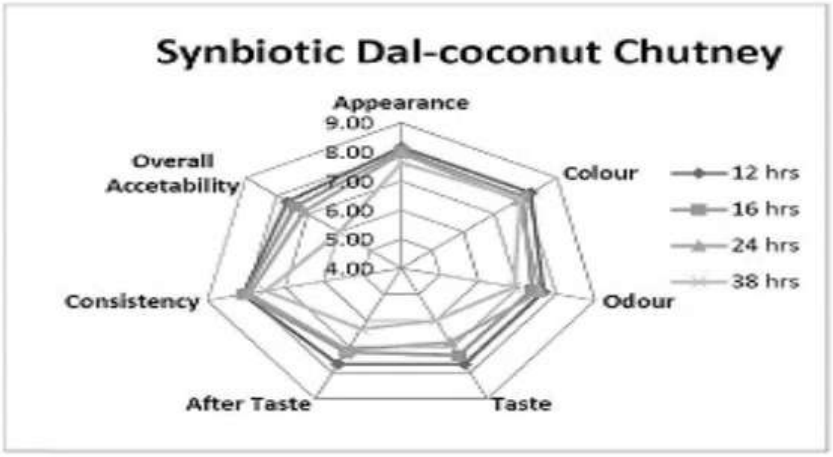


Figure 1

No. of Pages : 23 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/08/2021

(21) Application No.202121035173 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NLP BASED INTELLIGENT VIRTUAL ASSISTANT SYSTEM

(51) International classification :G10L0015220000, G06F0003160000, G06N0020000000, G06F0040300000, G06F0040400000
(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 :
ABSTRACT Our Invention NLP based intelligent virtual assistant system is a Artificial intelligence (AI) technologies are used in most of the intelligent and smart systems. One of the applications of AI is Voice Assistant system which is also called as Virtual Assistant. Virtual Assistant is software that interprets human voice and responds via synthesized voice. Now a day's voice assistant system is becoming vital part of the living being. Therefore, it is necessary to develop a Smart and intelligent voice assistant system. In this invention Natural language processing (NLP) based Intelligent Virtual Assistant (NI-VA) System is proposed. The invented NI-VA system is to ease the life of individual by supporting various daily aspect of living through a simple but powerful system. NI-VA system uses machine learning algorithm for classification problem. The invented NI-VA system gathers the result and basic chatter bot system to act as a perfect companion for humans. NI-VA system uses NLP for understanding the normal human language and helps the end user to communicate with the device like voice command. The input to the system is user voice and the output is in various forms like action to be performed or search result is dictated to the end user. The NI-VA system is to make the assistant to do all the task with verbal commands as in the current pandemic situation it will avoid the touch. It is used to send mail, browse anything, ask questions, play music, to get current time, greeting, etc. Experimental results are calculated and statistically analyzed. For benchmark problem, the performance of the NI-VA system is compared with same type of systems.

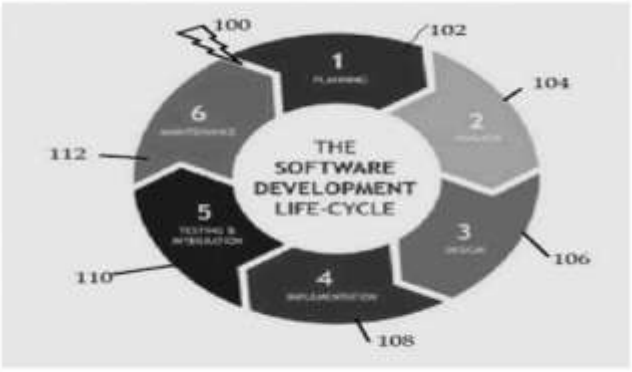


Fig. SDLC Life Cycle Phases.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2021

(21) Application No.202121036565 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A LOW-COST SOLID DESICCANT WHEEL

(51) International classification :F24F0003140000, B01D0053260000, B01D0053060000, F24F0005000000, F25B0043000000
(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 relates to a low-cost solid desiccant wheel to improve moisture removal capacity from air and efficiency of the desiccant wheel using different desiccant materials. This is a low cost and simple construction desiccant wheel to remove moisture from air as a dehumidification process. Different desiccant materials like silica gel, activated alumina, zeolite and composite are used with different weight ratio. The desiccant wheel is used as a hybrid air conditioning system coupled with conventional vapor compression refrigeration system.

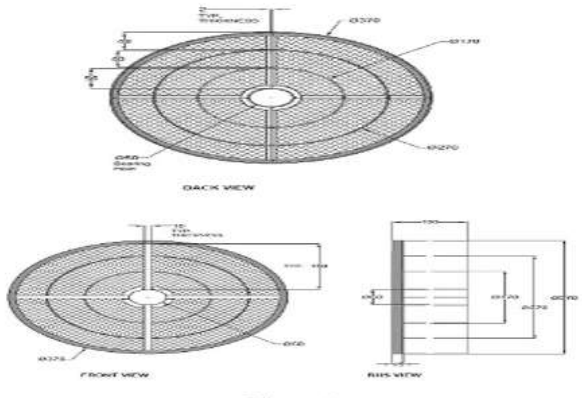


Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2021

(21) Application No.202121039223 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN APPARATUS TO GENERATE LARGE PLASMA ARC PLUME FOR WASTE DISPOSAL AND THERMAL PROCESSING APPLICATIONS

(51) International classification	:H05H0001360000, H05B0007180000, F27D0011080000, C22B0004000000, B60K0006480000
(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

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(57) Abstract :
The present subject matter relates to an apparatus for generation of large plasma arc plume for waste disposal and thermal processing applications. The apparatus comprises of a plurality of electrodes including a hollow graphite cathode (202) and two hollow graphite anode electrodes (201). The anodes (201) are connected to a rotating copper rod (204) which is further connected to a water cooled copper cylinder/current lead (203) and a DC motor (208). The water cooled copper cylinder (203) permits the flow of high current to graphite anodes (201) while rotating it in order to achieve uniform erosion. Additionally, three control operations viz., a) voltage feedback control (702), b) current feedback control (802), and c) image processing feedback control (302) are implemented to automatically control the plasma arc voltage and current by controlling the position and gap of the graphite electrodes (201, 202).

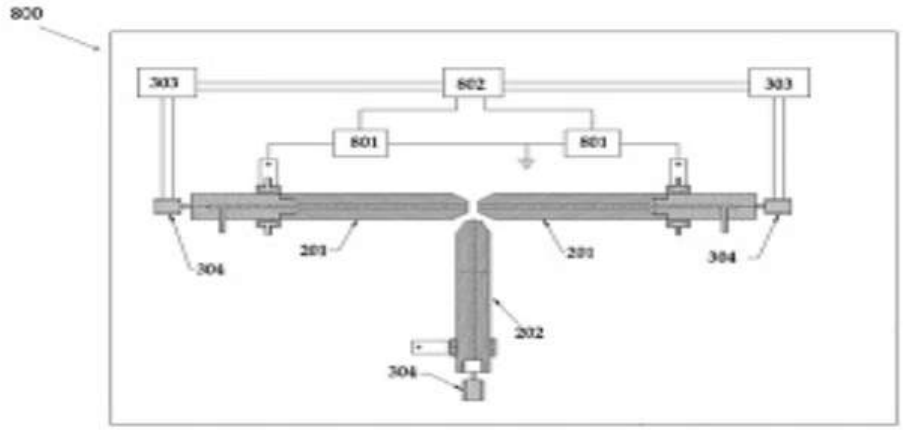


Figure : 8

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/08/2020

(21) Application No.202041023891 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ELECTRIC SCRUBBING BRUSH

(51) International classification :A46B0005020000, A46B0005000000, B64C0039020000, H02K0011250000, B32B0007120000
(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 :
ELECTRIC SCRUBBING BRUSH ABSTRACT An electric scrubbing brush (10) is disclosed. The electric scrubbing brush (10) includes a detachable lower brush body unit (20). The detachable lower brush body unit (20) comprises a brush platform (50) and a brush (60). The brush (60) is detachably coupled to lower side of the brush platform (50). The electric scrubbing brush (10) also includes a middle brush body unit (30) coupled above the detachable lower brush body unit (20). The middle brush body unit (30) is adapted to house a motor unit (130) and a storage compartment (120) for storing liquid detergent. The electric scrubbing brush also includes an upper brush body unit (40) is coupled above the middle brush body unit (23). The upper brush body unit (40) is configured with a controlling unit (180), a battery unit (170) and one or more actuating buttons (150). FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2020

(21) Application No.202041048510 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A MATERIAL TO SWTICH BETWEEN CRYSTAL TO AMORPHOUS (NICKEL SULFATE HEXAHYDRATE) BY SHOCK WAVES

(51) International classification	:B82Y0030000000, G11B0007243000, G01N0023207000, C01G0053100000, H01F0001030000
(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

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(57) Abstract :
In the present invention, we have demonstrated the behaviour of switchable phase transition of crystal to amorphous of nickel sulphate hexahydrate (NiSO4.6H2O) by shock waves. The grown crystal is in crystalline nature. When a shock pulse with Mach number 1.7 is exposed on it, it becomes as an amorphous and after next shock it comes back to its original crystalline nature. Likewise, it switches between crystal to amorphous for every successive shocks and the said switchable phase transition is confirmed by X-ray diffractometer (XRD), Raman spectroscopy and Transmission electron microscopic (TEM) techniques. This behaviour is also applicable for other hydrate materials having molecular formulae MSO4.xH2O (M: transition metals such as Mg, Cu, Cd, etc and x: a number including integers and non-integers).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2021

(21) Application No.202141007975 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR INCREASING EXHAUST GAS TEMPERATURE TO ENHANCE NOx CONVERSION

(51) International classification	:F02D0041020000, F02D0041400000, F01N0003023000, F02M0026050000, F01N0003200000
(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

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(57) Abstract :
The present disclosure relates to a system (100) and a method (200) for increasing intake air temperature in a diesel engine. The system (100) mainly comprises an electric heater (104) to be mounted in an air intake manifold (102) of the engine. The electric heater (104) is controlled by an ECU (106) based on real time monitoring of temperature of an exhaust gas in a region before SCR catalyst. Generally, the ECU (106) switch ON electric heater (104) during initial duration after engine start and during low load conditions to achieve light-off temperature of the exhaust gas which results in reduced NOx level.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2021

(21) Application No.202141008770 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A METHOD FOR DETECTING RBC/PLATELETS BOUND ANTIBODIES IN CANINES AND THE KIT THEREOF

(51) International classification :B61L0027000000, A61K0035190000, C07K0016000000, B04B0007080000, C12Q0001680400
(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 :
A METHOD FOR DETECTING RBC/PLATELETS BOUND ANTIBODIES IN CANINES AND THE KIT THEREOF A method for detecting RBC /Platelets bound antibodies in canines and the kit thereof, relates to a method of detecting Evans syndrome in canines using strip method for improved efficiency. The method involves elution and detection of canine RBC or platelet bound antibody for detecting Evans syndrome. Canine RBC was washed to remove unbound protein, by maintaining the association of bounded antibody. Auto-antibodies were isolated from RBC of dog by rapid antibody isolation methods using Glycine and separated and neutralised with Tris base. The presences Canine RBC specific antibodies were identified by dot assay using lateral flow strips. The autoantibodies were dot in nitro cellulose membrane and dried. The presences of auto antibodies were detected by gold conjugated Rabbit anti-dog (Fc) IgG from conjugated pad. The sensitivity of the kit is 94.74%.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/04/2021

(21) Application No.202141017863 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR WELDING AUTOMATION IN FGD ABSORBERS

(51) International classification :B23K0009173000, B23K0009180000, B23K0009320000, B23K0103040000, B23K0009028000
(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 :
SYSTEM AND METHOD FOR WELDING AUTOMATION IN FGD (FLUE-GAS DESULFURIZATION) ABSORBERS [00052] The present invention generally relates to the field of automated welding. More particularly, this invention relates to automated welding systems and methods in FGD (Flue-Gas Desulfurization) absorbers with an increase welding/execution speed. The invention illustrates automatic welding system which may be applied in FGD (Flue-Gas Desulfurization) Absorbers on alloy side N10276(C-276) welding Submerged Arc Welding (Submerged Arc Welding (SAW)) and same may be applied to Gas Metal Arc Welding (GMAW) processand on Carbon steel side Welding Submerged Arc Welding or Welding Gas Metal Arc welding & also Automatic double end bevel operation for Carbon Steel + N10276 (C276) cladded plate. In an embodiment welding speed of the automated system may be 3-5 times faster than the conventional welding method, as routine, around 35 meters of welding have been achieved in 1 shift for Gas Metal Arc Welding (GMAW) process & 120 meter of welding may be achieved in 1 shift for Submerged Arc Welding (SAW) process. Automated Gas Metal Arc Welding (GMAW) welding speed may be achieved up to 300mm/min & Automated Submerged Arc Welding (SAW) welding speed up to 550 mm/min as compare to convention method which is around 50-100 mm/min.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/06/2021

(21) Application No.202141026533 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR SCREENING SICKLE CELL DISEASE USING EPITHELIAL CELL RESPONSE BY THERMAL STIMULATION

(51) International classification	:A61B0005040000, A61B0005010000, C12Q0001686000, A61B0005000000, A61H0023020000
(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

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(57) Abstract :
"SYSTEM AND METHOD FOR SCREENING SICKLE CELL DISEASE USING EPITHELIAL CELL RESPONSE BY THERMAL STIMULATION" ABSTRACT The present invention provides a non-invasive method to detect Sickle cell disease (SCD) in a patient, and a device thereof. The steps comprising of providing external stimuli to epithelial cell of a control subject and an SCD patient; comparing the epithelial cell response time of the control subject and the SCD patient; wherein, the external stimuli is temperature and it is administered locally and configured to increase the tissue temperature by 5°C -10°C from initial tissue temperature and maintain the same temperature for at least 10 seconds, and then adjusted to decrease the tissue temperature back to the initial tissue temperature and maintain the same for at least 10 seconds; and the time taken for return of arterial pulse amplitude to initial stage pulse amplitude of the control subjects is around 0.2 to 0.6 seconds, and the time of the SCD patients is around 0.9 to 1.38 seconds.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/07/2021

(21) Application No.202141032403 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : THE COMPUTERIZED CLASSIFICATION OF MICRO-MOTIONS IN THE HAND USING WAVEFORMS FROM MOBILE PHONE VIDEOS

(51) International classification	:G06K0009000000, G06F0021350000, H04W0036000000, H04M0001040000, H04N0013317000
(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

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(57) Abstract :
The present invention relates to a system and a method for synthesization and classification of a micro-motion, comprising: a communication device for collecting plurality of video samples, a processing unit to simultaneously process the said samples by using: an image processing technique, a region-based shape extracting means, a labelling means for labelling of the micro-motion videos observed in an extracted result from the said extracting means, an overlapping means for composing video samples resulted from magnification means and labelling means, a server to upload the said plurality of video samples collected by means of the said communication device, and a classification means for classifying the resulted video samples. Further, in accordance with present invention, an image processing operator is used between the original video and the magnified video which yields a suitable heatmap that can pick up on the subtle changes in position.

No. of Pages : 22 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/07/2021

(21) Application No.202141034072 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HYBRID 3-DIMENSIONAL OPTICAL COMPUTING ACCELERATOR ENGINE APPARATUS AND METHOD

(51) International classification :G02F0001133500, G02B0027000000, H04N0013337000, G02F0001133300, G02F0001134700
(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
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(57) Abstract :
The present invention is related to a reconfigurable multi-dimensional hybrid optical computing accelerating apparatus consisting of a vertical polarizer or horizontal polarizer plane facing each other between the Liquid crystal units aligned to light pass through and or each liquid crystal unit is incorporated with a set of the color filter unit and vertical polarizer or horizontal polarizer plane facing each other between the Liquid crystal units aligned to light pass-through wherein a function of the liquid crystal unit is made with combinational computation execution with the optical Input (Io), and the electronic color transformation function control line (Qe) to provide an optical output (Zo), further, the function of the liquid crystal unit is capable of being reconfigurable by changing the stepping value of electronic color transformation function control line (Qe) thereby functional behavior of the LCU can be changed or reconfigured without redesigning the existing circuitry. Refer Fig 22 and 23.

No. of Pages : 81 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/08/2021

(21) Application No.202141038611 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR PRINTING A 3D MODEL USING ONE OR MORE EXTRUDERS

(51) International classification :B33Y0030000000, B33Y0010000000, B29C0064400000, C12M0003000000, B41J0015040000
(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 :
SYSTEM AND METHOD FOR PRINTING A 3D MODEL USING ONE OR MORE EXTRUDERS A system (100) and a method for printing a 3D model using one or more extruders (106A-N) are provided. The system includes one or more robotic arms (108A-N) that are attached with a base of a 3D printer (112) that enable the one or more extruders (106A-N) to print a material to a printing surface (114). The rotating base (116) is attached with the 3D printer (112) and rotates a printing surface (114). The processer (206) is configured to (i) receive the input from the user (102) and convert the input into one or more step data, (ii) generate a control code based on the one or more step data to determine and control a movement of the one or more robotic arms (108A-N) and the rotating base (116), and (iii) print the 3D model with the material over the printing surface (114) based on the control code. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/08/2021

(21) Application No.202141038612 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING COLOUR QUICK RESPONSE CODE

(51) International classification :G06K0019060000, G06K0007140000, G06K0001120000, G06T0011000000, G06F0003035400
(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 :
METHOD AND SYSTEM FOR GENERATING COLOUR QUICK RESPONSE CODE The embodiments herein relates to a method and system (100) for generating colour quick response code with increased density that is contrast enhanced and visually compatible. The system (100) includes a memory (102) that stores a set of instructions and a processor (104) that is configured to (i) obtain a first input and a second input from at least one input device (106A-N), (ii) represent the first input as one or more blocks to store high-density information, (iii) encode a quick response code with the one or more blocks based on at least of bit-matrix or mask from the first input, (iv) detect a colour from one or more colours, (v) encode the generated quick response code with the detected colour, and (vi) generate the colour quick response code based on the encoded quick response code with the detected colour that is contrast enhanced and visually compatible. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/08/2021

(21) Application No.202141038614 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR PREPARING AN AROMATIC POLYESTER WITH REDUCED GRAPHENE OXIDE COMPOSITE

(51) International classification	:C08L0067020000, C08G0018400000, C08G0018160000, B01J0035020000, B01J0035000000
(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

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(57) Abstract :
METHOD FOR PREPARING AN AROMATIC POLYESTER WITH REDUCED GRAPHENE OXIDE COMPOSITE A method for preparing an aromatic polyester with reduced graphene oxide composite using a n-Butyl Amine Maleic Anhydride (BAMA) catalyst n-Butyl Amine Maleic Anhydride (BAMA) catalyst. Heating the aromatic polyester to convert the aromatic polyester into a liquid aromatic polyester. Heating the reduced graphene oxide particle with the liquid aromatic polyester to form a mixture. Adding and stirring a pre-determined amount of BAMA catalyst with the mixture to obtain the aromatic polyester with reduced graphene oxide composite. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2021

(21) Application No.202141039995 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN AUXILIARY CIRCUIT FOR REGULATING HYSTERESIS IN AN OVER TEMPERATURE PROTECTION CIRCUIT

(51) International classification :H04L0027260000, G01R0015040000, H03K0019173000, G06Q0020340000, H05B0045480000
(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

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(57) Abstract :
ABSTRACT AN AUXILIARY CIRCUIT FOR REGULATING HYSTERESIS IN AN OVER TEMPERATURE PROTECTION CIRCUIT The invention provides an auxiliary circuit for regulating hysteresis in an over temperature protection circuit. The auxiliary circuit includes a programmable chip for regulating an input signal based on a preset temperature, the programmable chip having a plurality of pins each for an input and an output. A hysteresis arrangement is operatively coupled to the programmable chip through at least one pin each on the input and the output. The hysteresis arrangement is configured to operate based on a threshold input received from the input pin on the programmable chip. A voltage divider arrangement is sandwiched between the programmable chip and the hysteresis arrangement, wherein the voltage divider arrangement is configured to operate between a temperature range, wherein the said operation of the voltage divider arrangement regulates the operation of the hysteresis arrangement. FIG.1

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/09/2021

(21) Application No.202141040684 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : GOLD NANOPARTICLES (AuNP) FOR TESTING SEPSIS

(51) International classification	:G01N0033680000, G01N0033569000, G01N0033530000, G01N0033543000, A61K0047690000
(86) International Application No Filing Date	:PCT// :01/01/1900
(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

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(57) Abstract :
7. ABSTRACT This system relates to detection of Procalcitonin (PCT) and glycosylated Haptoglobin in the individual serum by using the dot blot immunoassay method using chemically synthesized Gold NanoParticles (AuNP). The serum collected from intravenous blood of the individual is used to perform dot blot immunoassay using anti -PCT Ab nanoconjugates, anti - Hp Ab nanoconjugates and lectin nano-conjugates prepared by chemisorption. Anti-PCT detects elevated procalcitonin, indicating presence or absence of sepsis and Anti-Hp along with anti-lectin nano-conjugates detect the different levels of glycosylation of Hp and comparing it with reference biomarkers to identify the different stages of sepsis. The anti-PCT antibodies help in detecting whether a person is septic or not, while the levels of glycosylated (fucosylated) Haptoglobin based on binding to lectin conjugates can be used to predict severity of sepsis thereby detecting the severity of the infection and help in planning of the appropriate treatments. Fig. 1

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2021

(21) Application No.202141043960 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A STRUCTURE FOR A PLANT POT

(51) International classification :A01G 9/02
(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

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(57) Abstract :
A structure for a plant pot is disclosed. The structure includes a pot body (20) which includes a first container (50) adapted to hold soil to plant plant(s), and includes at least one hole (170) at a bottom surface (160) which is adapted to receive at least one wick (55) including a predefined connector. The at least one hole (170) includes a predefined locking slot. The at least one wick (55) is adapted to mechanically couple with the first container (50). The first container (50) also includes contour(s) adapted to receive one or more peripheral equipment. The pot body (20) also includes a second container (60) detachably affixed to the bottom surface (160) and is adapted to store predefined quantity of water. The at least one wick (55) is adapted to supply water to the soil, and drain the water from the first container (50) when the water supplied for the plant(s) is in excess. FIG. 1

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

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(19) INDIA
(22) Date of filing of Application :28/09/2021

(21) Application No.202141043963 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A HEALTHCARE MANAGEMENT SYSTEM AND A METHOD TO OPERATE THE SAME

(51) International classification	:G06Q 50/22
(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

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(57) Abstract :
A healthcare management system (100) is disclosed. A patient information collection module (110) collects health information of a patient, generates a unique patient identification number. A patient health monitoring module (120) monitors a plurality of health parameters of a registered patient, analyses a deviation in the plurality of health parameters monitored from a plurality of corresponding threshold limit of parameters. A prescription generation module (130) generates a digital prescription for the registered patient. A healthcare recommendation module (140) recommends one or more healthcare providers for serving the registered patient. An appointment scheduling module (150) schedules the medical appointment of one or more recommended healthcare providers with the registered patient, generates a token number corresponding to the medical appointment scheduled between the one or more recommended healthcare providers and the registered patient. A patient supporting module (160) generates a patient supporting recommendation for the registered patient to manage the healthcare service based on the disease diagnosed. FIG. 1- FIG.5

No. of Pages : 33 No. of Claims : 14

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(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202141044220 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR PHOTOMASK DEFECT DETECTION AND CLASSIFICATION

(51) International classification :G06T 7/00
(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
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(57) Abstract :
A system (100) for photomask defect detection and classification is disclosed. An input data receiving module (110) receives a plurality of photomask defect images and a plurality of corresponding template images from a graphical user interface. An input data pre-processing module (120) calibrates and aligns the plurality of photomask defect images and the plurality of corresponding template images for correction of one or more alignment issues, generates a plurality of normalized difference images, thresholds the plurality of normalized difference images to generate a plurality of threshold values, eliminates one or more irrelevant features in the plurality of threshold values. An image classification module (130) utilizes a trained convolutional neural network model to extract one or more defectivity characteristics from the plurality of pre-processed photomask defect images and classifying the one or more defects in the plurality of pre-processed photomask defect images, generate a classification result representative of the one or more defects classified and location of the one or more defects. FIG. 1- FIG. 4

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202141044265 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A CAP-ASSEMBLY FOR CARBONATED BEVERAGE CONTAINER AND A METHOD OF SEALING CARBONATED BEVERAGE CONTAINER

(51) International classification :A23L 2/54
(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
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(57) Abstract :
The present invention relates to a novel cap assembly for the enhanced traditional drink containers like soda containers or any other carbonated beverage containers that can increase the efficiency of such beverage container production particularly reducing the packaging time and overcoming the existing limitations. by providing a tamper-proof arrangement for qualitative product and protects the fluids released from the beverages until usage of it. It is to retain the pressure inside the contained fluid, tamper-proof, hygienic, safe to consume, instant-dispense arrangement, and extended shelf life. Refer: Fig 7

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202141044306 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RESEARCH ON CUSTOMER EXPECTATIONS, EXPERIENCE, AND SATISFACTION WITH SERVICES PROVIDED USING THE SIX SIGMA TECHNIQUE.

(51) International classification :G06F 3/039
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Due to the entry of numerous automobile companies, the Indian automobile industry faces stiff competition. As a result, customer satisfaction has become a top priority for businesses of all sizes. Measures how likely it is that a product or service will be produced with no defects using the six sigma method. As a result of Six Sigma, a new standard for measuring defects has been introduced, referred to as Defects per Million Opportunities (DPMO). To find out how satisfied two-wheeler users are with their purchases, the researchers set out to determine the extent to which they preferred bikes. A self-prepared questionnaire was used in conjunction with the convenience sampling method to gather data. SPSS and the Six Sigma tool were used to analyze the data. We now have the outcome, along with an explanation of how it was reached

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202141044307 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : An Investor's Perspective on Insurance-Related Investment.

(51) International classification :G06Q 40/08
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :
Philosophy, psychology, and cognitive science all define perception as the process of being aware of or processing sensory information. Basically, it"s the process through which our brains recognize and interpret sensory data.... Our reactions to new knowledge are part of how we perceive the world around us. Our ability to perceive is based on how we employ sensory information from our surroundings to help us engage with the world around us, as stated above. When we perceive something, we are able to take in sensory information and give it meaning in our minds. The fundamental purpose of the study project is to find out how investors feel about insurance and how important different factors are when making a decision about which insurance plan to choose. One hundred people were surveyed and asked for their thoughts via a standardized questionnaire. According to the findings, an individual"s age has an effect on how they view insurance

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2021

(21) Application No.202141044309 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Trends in Exports, Growth, and Challenges in the Indian Textiles and Apparels (T&A) Sector.

(51) International classification :H04W 12/06
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The apparel and textiles production in India accounts for about 4% of the worldwide industry. According to data, foreign exchange incomes, employment, the transportation and logistics ranks among India"s largest and most important sectors. It is also one of the most profitable. To put it another way, the industry accounts for roughly 7% of total industrial output, 2% of Gross Domestic Product, and 15% of total export earnings. More than 45 million people are employed directly as a result of this industry, making it the second largest employer after agriculture in terms of total employees. India is the fifth-largest exporter of raw materials and finished goods in the world, according to the World Trade Organization"s 2018 World Trade Statistical Review (RMG). The Indian textile and apparel industry"s most important segment is ready-made garments and apparel (RMG), which accounts for about half of the total industry. One estimate places the domestic RMG industry"s share of the Indian RMG industry at three-fourths. Units can be small or large due to the low cost of plant and machinery in RMG manufacturing units, which means they can be profitable no matter what size they are. As a result, unorganized players remain dominant in the RMG industry. In contrast, the market for branded clothing has seen steady growth in recent years

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/10/2021

(21) Application No.202141044673 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEMATIC EVALUATION OF E-COMMERCE SYSTEM FOR SELLING ORGANIC AGRICULTURE PRODUCTS

(51) International classification :G06Q 30/06
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT SYSTEMATIC EVALUATION OF E-COMMERCE SYSTEM FOR SELLING ORGANIC AGRICULTURE PRODUCTS The traditional agricultural practice chain generally involves diverse mediators between farmers and consumers. Naturally, farmers used to sell their produce at the initial farm gates to the mediators, and yield then permits through different mediators before the product getting into the customer"s hand. In this outcome, farmers collect only a minimal proportion of the money paid by the consumer at the end, as each mediator in the price chain grosses a margin. The present research investigates the outreach of agri e-commerce as an emerging opportunity in developing regions to support farmers" financial problems. Despite this, there is considerable variation in the keenness of emerging nations in regards to agri e-commerce. Our market attractiveness index examines these differences, which ranks countries according to several agri e-commerce enablers. An artificial neural network model was established, developed, and compared for demand forecasting to attain more earnings and achieve imminent change. Overall, the present research investigates a knowledge-based intelligent e-commerce method for marketing agricultural yields.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/10/2021

(21) Application No.202141044676 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A Convolutional Neural Network Based Knowledge Management System from Unstructured Data for Improving Business

(51) International classification :G06N 3/04
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
ABSTRACT The present invention relates to a system and method for business aligned knowledge management system from unstructured data using convolutional neural network to solve business problems in an organization using convolutional neural network for achieving business objectives. The objective of present invention is to solve the anomalies presented in the prior art techniques and using advanced technique for providing business aligned knowledge from unstructured data to solve problem statements. The disclosure presents a business aligned knowledge management system which comprises a central server which is backed by two main components Knowledge Management System (KMS) extraction engine and KMS execution engine that are based on convolutional neural network models which are competent enough to learn themselves and provides an automatic and self-learned system for providing business aligned knowledge. The proposed invention comprises a server storing the data related to the business of an organization, test cases and past data to train convolutional neural network model and schema definition. The said data is stored in the database. The server involved in the present invention is convolutional neural network (CNN) enabled server. The present invention discloses a computer implemented method for business aligned knowledge management system from unstructured data using convolutional neural network, the method comprises: retrieving the unstructured data from the data source; KMS extraction engine performing the steps of: converting the identified data into structured data based on predefined schema; analyzing and processing the structured data using basic classifier based on convolutional neural network to classify the same as business aligned knowledge; KMS execution engine performing the steps of : defining the business goal and problem statement of business of the organization; identify the type of knowledge needed for solving problem statement i.e., explicit knowledge or tacit knowledge; segregate the knowledge into explicit knowledge and tacit knowledge using advanced classifier which is based on convolutional neural network; identify the process and tools to solve problem statement; applying the identified type of knowledge to identified process/tools to solve problem statement.

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(19) INDIA
(22) Date of filing of Application :01/10/2021

(21) Application No.202141044677 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PAPR Reduction for FBMC Systems with Ant Bee Colony Optimization

(51) International classification :H04L 27/26
(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

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(57) Abstract :
Abstract Multi carrier systems are most prevalent modern wireless communication systems which are employed for high data rate transmission. At present, FBMC (Filter bank multi carrier) with OQAM (Offset-QAM) has drawing attention for many researchers to implement new physical layers and wireless protocols. As in the case of multi carrier system, this FBMC also suffers from high PAPR, It presents a PAPR reduction approach with ant bee colony (ABC) optimization. ABC algorithm functionality is similar to honey mining where the labor is shared for nectar source and hence find out the optimal solution. Experimental results shows that the proposed approach could able to attain considerable improvement in decreasing the PAPR when compared against the conventional FBMC and SLM (selective mapping method) based FBMC approaches.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/10/2021

(21) Application No.202141044696 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :MULTITENANT COUNTERFEIT PRODUCT DETECTION DIGITAL WARRANTY MANAGEMENT SYSTEM WITH BILAYER ENCRYPTED MACHINE-READABLE CODES

(51) International classification :G06N 20/00
(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
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(57) Abstract :
ABSTRACT :MULTITENANT COUNTERFEIT PRODUCT DETECTION DIGITAL WARRANTY MANAGEMENT SYSTEM WITH BILAYER ENCRYPTED MACHINE-READABLE CODES" 5 The method to applying Bi-layer cryptography on machine-readable codes like QR codes/Bar codes(7) with a common key for encrypting details of manufactures and a unique manufacturer-specific crypt key(2) for each manufacturer to identify counterfeit products in real-time and warranty management. The system is designed to work for both single tenancy and multi-tenancy models to support several 10 manufactures and products in a single set-up. The readable code through mobile Applications or online through the browser interface(12). In the process first, a common encryption key(5) is used to get details of the manufacturer then a manufacturer-specific key(2) is used for decryption(11) of the product details(1) which is further verified against details stored in the server. Product will be 15 identified as counterfeit if decryption(11) fails or product details(1) are not available in the database, if applicable warranty details will be shown to the user.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/10/2021

(21) Application No.202141044765 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Design and Implementation of Smart Human Recognition and Counting System Based on Deep Learning and Computer Vision.

(51) International classification :G06K 9/00
(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

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(57) Abstract :
The ability to detect humans accurately in a variety of application areas, such as irregular event recognition, human walk characterization, and overcrowding analysis, is an important feature of a video surveillance system. Individual findings, gender arrangement, and fall finding for the elderly are also important features. To start the detection process, we need to find a moving object. The technical term for this is motion detection. To find objects in the environment, methods such as background removal, visual flow, and spatio temporal cleaning can be used. Following the detection and classification of an object, it can be identified as a human being based on characteristics. This paper provides a thorough examination of the methods currently available for detecting people in surveillance footage, as well as comparisons between them. This paper also discusses benchmark dataset characteristics and future research tips in the field of human recognition

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202141044783 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYNTHESIS OF E-WASTE BASED ON MACHINE LEARNING & ARTIFICIAL INTELLIGENCE AUTONOMOUS MANAGEMENT SYSTEM FOR SMART ENVIRONMENT

(51) International classification :G06N 20/00
(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
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(57) Abstract :
In the current era, population is continuously growing leading to large amount of waste in turn resulting in environmental hazard. Management of huge amount of trash has become a critical challenge. Involvement of technology for smart waste management is viewed as an effective solution in order to mitigate this issue as increasing rate of waste is unprecedented. This invention proposes an automatic waste management method based on Artificial Intelligence and machine learning where the waste is segregated into organic waste and inorganic waste once collected by the trash bin. Conventionally human are involved in segregation of waste which leads to several diseases also such method is not efficient. Incineration of improperly segregated waste generates gases such as carbon monoxide affecting the ozone layer. The proposed trash bin is equipped with sensor system which is able to segregate the waste in an intelligent way along with report generation of waste collected. Machine learning technique along with image recognition classified the thrash based on the input from sensors. The prototype is found to be efficient in segregating biodegradable and non-biodegradable waste for about 2000 samples.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202141044784 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IoT Based Patient Tracing and Monitoring System for COVID-19

(51) International classification :H04L 29/08
(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
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(57) Abstract :
ABSTRACT: Title: IoT Based Patient Tracing and Monitoring System for COVID-19 The present disclosure proposes an IoT based patient tracing and monitoring system 100 for COVID-19. The system 100 comprises of a wearable health monitoring device 101, a remote server 102 and a communication device 103. The proposed system tracks location of infected patients, monitors and transmits patient health parameters of the infected patients to doctors, and alerts about presence of a nearby infected patient to curb the spread of COVID-19. The system provides an alert to nearby people with the patient information and location of infected patients, so that the spread of the corona virus and the number of positive cases can be reduced. The system is integrated with GPS of smart electronic devices to track the location of the infected patient.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202141044790 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VIRTUAL CARETAKER FOR CHILDREN, PHYSICALLY AND MENTALLY CHALLENGED PERSONS

(51) International classification :G09B 19/00
(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

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(57) Abstract :
ABSTRACT VIRTUAL CARETAKER FOR CHILDREN, PHYSICALLY AND MENTALLY CHALLENGED PERSONS Kids, adults and old-age individuals who are mentally disabled needs constant supervision and support from their caretakers and society members. It is a great difficulty for caretakers to look after unfortunate one's and at the same time perform their daily routine tasks. Protecting physically and mentally disabled individuals is a grave challenge faced by the society as continuous monitoring of these people by parents and caretakers is very impractical. So, keeping this in view, this innovation is AI and IoT based device which virtually monitors the child/adult for its wellness by reading temperature, body pressure, rhythmic body movements, voice amplification, heart-beat and uneasiness of the body. This device also keeps a GPS enabled tracker and is connected to Cloud servers that automatically alerts Caretakers, parents, Police and nearby NGOs and also warns nearby by making a beep sound covering certain metres.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202141044792 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Design and Implementation of Intelligent emoji creator using Deep Learning model.

(51) International classification :G06N 3/08
(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

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(57) Abstract :
There is a growing body of knowledge about the visual symbol of computer mediated communication, the emoji (CMC). More research has been conducted, albeit in various directions, since the initial release of emojis two decades ago. Advances in CV (computer vision) and DL (deep learning) have made it probable to notice human emotions in images. This Project"s main goal is to classify human facial expressions so that they can be used as input for our system to generate the most appropriate emoji or avatar. We looked at the emoji literature as well as the history of emoji development, use, function, and application as part of our review. This article presents a systematic review of the existing literature on emoji. We examine how emoji have evolved, how they are used differently, what functions they have, and what research has been done on them in various domains such as social media. Aside from that, we offer a list of potential future research directions in this area. Emoji’s and avatars are nonverbal cues represented visually. We use them in everything from online chat to writing product reviews to expressing our thoughts on a company or product. It has also resulted in an increase in data science research on emoji-driven storytelling

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202141044793 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BIG DATA MODEL WITH LOWER COST AND EFFICIENT SECURITY CONSTRAINTS FOR NEW GENERATION MEDICAL SYSTEMS

(51) International classification :H04L 29/06
(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 :
There has been tremendous growth on the Internet of Medical Things (IoMT) as medical systems using wireless communication technology have evolved. It is possible to create better healthcare apps by integrating biosensors with real objects and collaborating over the Internet. Patients" physical health has been monitored for decades, and many apps have been developed to assist medical teams in providing appropriate therapy. Patients" bodies are fitted with medical devices linked to a cloud computing system for the collection and analysis of healthcare data. However, these medical gadgets rely on battery-powered sensors and have memory, transmission, and processing resource limitations. They are thus not ideal. Many cloud-based healthcare systems are helping the community keep track of patients" status more efficiently, but they all have latency issues with data gathering and storage. SBD-EC is designed to offer distributed and timely computation of a decision-oriented medical system utilizing Secured Big Data analytics using Edge–Cloud architecture (SBD-EC). In addition, the mobile edges work together with the cloud level to provide a safe algorithm, ensuring dependable availability of medical data with privacy and protection against harmful activities.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202141044794 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AUTOMATIC FORCED AIR DUCT BASED CHICKEN EGG INCUBATOR

(51) International classification :A61G 11/00
(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

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(57) Abstract :
[023] This invention highly concentrates in artificial hatching of 50 fertile chicken eggs using an innovative technique called duct and hole mechanism. It provides the required incubation temperature on the egg shells throughout the hatching period of 21 days. It increases the rate of hatching to the maximum than that of the expected. To automate the hatching process an embedded system design is used to control the incubator parameters like incubation temperature(37°C to 38 °C), humidity(45% to 75%)and periodical turning of the eggs. The prime objective is to resolve the issues of the small scale ductless forced air incubator by maintaining the optimum incubation temperature on all the eggs near and far to the heat source and thereby increasing the percentage of hatchability. The duct based model is prominent in efficiently hatching the fertile chicken eggs which are placed near and far to the heating element of a small sized incubator. This efficient and low cost automatic incubator helps the micro-level poultry farm sector to get benefitted with low investment.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202141044795 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HIGH SECURED REMOTE PATIENT MONITORING SYSTEM USING IOT, CLOUD COMPUTING AND AI

(51) International classification :H04L 29/08
(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
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(57) Abstract :
Lately, patients" health has been taken into account by several researchers, who have come up with an excellent and suitable answer. Cloud computing, the Internet of Things, and 5G are all enabling quicker and more secure data transmission. Electronic health is a promising area for the Internet of things (IoT). There are many ways in which this new technology may enhance healthcare. The monitoring of patients may be greatly improved by using cloud computing and the Internet of Things (IoT) and AI . The medical sector and computer science must thus develop a practical technique for continuously monitoring the health of patients through a network of interconnected sensors. Because of this, the use of cloud computing to analyze data gathered from remote patient sensors and IoT platforms has been recommended owing to its optimum efficiency, speed, and accuracy in data processing and categorization. LSTM deep neural networks are utilized to categorize and monitor patients" conditions remotely in this study using a prioritization system and cloud computing, which may be a significant novel feature. Cloud-based IoT platforms use the 5th generation Internet to transmit sensor data.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044801 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Implementation of wearable IoT enabled smart health and behavior monitoring system.

(51) International classification :H04L 29/08
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
In adding to the growing number of people infected by prolonged diseases such as obesity, diabetes, cardiovascular and other similar conditions, it is becoming increasingly important to support mental and physical health in order to maintain independent living. Detecting, health monitoring, and, eventually, recognizing daily accomplishments are all areas where promising solutions have emerged. The IoT is gaining rapid attention from a technical standpoint across many disciplines in the field of healthcare. Body area sensor networks (BASNs) from the Internet of Things have been widely used for a variety of purposes, including ubiquitous health monitoring. BASNs are a component of this framework. ECG monitoring is becoming increasingly popular for accurately diagnosing heart disease. Among its many accomplishments, this paper is notable for the following: First and foremost, this paper introduces WISE, a new real-time personal health monitoring system. We have implemented the BASN in order to assist with real-time health monitoring (body area sensor network framework). The device incorporates a slew of wearable sensors, including temperature, heart rate, and blood pressure sensors. Another issue is that the majority of wearable observing systems require the use of a smartphone to process, visualize, and transmit data. This has an effect on the normal day-to day functionality of the smartphone. A low weight LCD will be integrated to provide an alternate result for quickly viewing the system"s information status for the time being, and data from the BASN will be stored in the cloud

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044802 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Women Safety Analysis in Indian Cities based on Social Networks using Artificial Intelligence

(51) International classification :G06N 20/00
(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

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(57) Abstract :
The present invention Women Safety Analysis in Indian Cities based on Social Networks using Artificial Intelligence comprises of creating security for women in Indian cities. Studies show that 60% of women who reside in metropolitan cities all over the world feel unsafe while going out to work or while traveling in public transport. Even on platforms like Twitter, Facebook, etc, they encounter negative comments, sexual harassment, etc. As we already know there are a lot of women safety apps available examples include Eyewatch SOS for women, SpotnSave, iGosafely, Trakie, Safety pin, Raksha, himaat, smart24×7, Shake2safety, and safe. The government also launched the disha app, to register any problems faced by women. We believe that we should implement a system where it helps women and their safety before something bad takes place, rather than implementing a system after a brutal incident took place. Machine Learning is one of the best ways is to analyze tweets and which is part of Artificial Intelligence. The proposed invention develops a model which uses a Support Vector Machine(SVM) algorithm to analyze the unsafe cities in India by calculating the negative and abusive comments which are being posted from different cities in India. We analyze the tweets by checking the good and bad words in the comment.

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044804 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Snake Ladder Arcade Game Machine and RFID Card System

(51) International classification :G07F 17/32
(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

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(57) Abstract :
The Abstract details has been given in the page number 26 of attached complete specification document.

No. of Pages : 46 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044809 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Block chain-based 5G smart grid identification and control of IoT devices..

(51) International classification :H04L 29/08
(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
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(57) Abstract :
As the number of Internet of Things (IoT) devices grows, smart grids are becoming more interconnected, necessitating new methods of managing and controlling these devices. We"re combining block chain technology with 5G Mobile Edge Computing to connect massively powerful Internet of Things devices with the 5G network. Block chain, which provides distributed storage as well as credibility for Internet of Things (IoT) devices, has made smart grid IoT device administration more reliable. We propose a 5G MEC smart grid-based hybrid block chain system that uses both public and private block chains on the MEC gateway/server. As a result, we"re developing an IoT device identifier-indexed block chain explorer to ease data examining and extraction. Following that, we examined the most popular block chain consensus algorithms to see if they"ll work in a hybrid block chain. In the final stages, various consensus algorithms were evaluated and compared, with a focus on average calculating time and average time to settlement

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044810 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A research on water quality to protect cattle health and improve dairy production quality.

(51) International classification :C02F 103/20
(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

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(57) Abstract :
Water is a natural wonder that provides essential nutrients to life on Earth. By ingesting it, you can aid digestion, energy metabolism, nutrient transportation/transportation/metabolite excretion from the body, and animal excretion, among other things. Water is required for the proper functioning of the bodies thermoregulatory and electrolyte systems, as well as the variability and mitigating of the surrounding atmosphere for the rising fetus in both humans and wildlife. Water excellence has an impact on dairy cows" health and productivity, as well as the quality of their milk, because it causes water solute bioaccumulation in milk and body tissues. This means that it must be of exceptional quality in order to ensure the highest level of dairy cattle health and productivity. There are limited surface and groundwater resources available in high-altitude areas, with reliance on snowfall and bore well and Mount Rivers for water. Concerns about the quality of water assets have recently arisen because of increased contamination, human activities and climate change at high elevation. Water excellence, dairy manufactured goods excellence, and cattle fitness must all be continuously monitored in order to prevent and control the spread of waterborne diseases. In this review, an examination of water quality and its potential impact on dairy cattle health in high-altitude regions is used as an example. An increase in travelers visiting high-altitude areas, according to the findings of this review, have resulted in a decline in water quality, which may have an impact on human fitness, and the manufacture of quality dairy foods. This could have ramifications. This could result in toxic molecules and metals bio accumulating in the higher food chain, endangering public health

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044811 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Identify the main success criteria and key methods that an Industry should pursue.

(51) International classification :G08G 1/00
(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

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(57) Abstract :
As India"s economic structure has opened up, so has the pace of change in the corporate environment. Additionally, removing protectionist barriers has improved the country"s competitiveness both internationally and domestically. Due to their larger products, well technology, seasoned promotion and management abilities and better access to financial assets, overseas companies are well positioned to take advantage of these chances than local companies, even though liberalization has created new opportunities for both domestic and foreign companies to benefit from. India"s businesses must boost their competitiveness and pick smart ways to thrive in the changing environment. Here, we"re looking for important Success factors and essential techniques that firms should use to succeed. The study identifies 11 essential success factors for companies working in the Indian industry based on survey data obtained from 125 CEO. While enhancing a company"s competitiveness necessitates improvements in all of these key areas, a specific focus on one or the other relies on the strategies adopted by the organization at the moment. Five critical tactics for rival effectively in the Indian market are identified in this article. Product innovation came in first, followed by cost management and difference, specialized advertising, andgreater quality at a premium price.” These four plans were placed in order of priority.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044813 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ML & BIG DATA BASED CLOUD COMPUTING CONSTRUCTION ASSESSMENT SYSTEM FOR ANDROID APPLICATIONS.

(51) International classification :H04L 29/08
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Mobile devices are becoming an increasingly important part of people"s everyday lives, making it easier to do a wide range of activities. Mobile devices can achieve more capabilities and advantages by fusing mobile and Cloud computing while also overcoming some of its inherent constraints. Big data analytics technologies allow for the extraction of value from data with four Vs.: volume, variety, speed, and accuracy. This idea addresses mobile cloud computing and big data analytics role in enabling networked healthcare. Both the acceptance of cloud computing in healthcare and the rationale for developing networked healthcare apps and systems are discussed in detail. In this paper, we present a Cloudlet-based Mobile Cloud computing infrastructure for big data in healthcare. Big data analytics methods, tools, and applications are examined. We"ve come to certain conclusions on the architecture of big data and mobile cloud-based healthcare systems.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2021

(21) Application No.202141044814 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NANOPARTICLES FOR PRODUCING CERAMIC HEAT SHIELD AND SEAL

(51) International classification :B82Y 30/00
(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 methods used to create multilayer ceramic coatings with porosity in some of the layers are discussed, and the finished coatings. Different layers may be applied at various temperatures by placing a heat-blocking shield regularly between the heat source and either the evaporated or an external heater. Layers that are applied have a Zone I structure, whereas layers that are not are structured in a Zone I or II manner. Zone I structural layers may have their porosity increased with heat treatment.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2021

(21) Application No.202141045064 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TO DEVELOP A PORTABLE SENSOR TO MEASURE FOOD QUALITY.

(51) International classification :A61B 5/00
(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

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(57) Abstract :
Because AFLATOXIN poses a serious health hazard, the invention of a simple and transportable instrument for accurate AFLATOXIN screening is greatly sought. This transportable pH meter does have the advantages of being simple to use, inexpensive, & readily available. As a result, throughout this work, they look at the feasibility of using a pH meter as an output to construct a transportable AFLATOXIN sensor. This integration of an AFLATOXIN-responsive analyte and a cross-linked polymer allows for the separation and identification of AFLATOXIN.When AFLATOXIN is added, it attaches to its analyte with close connection instead of the DNA combination, allowing the gelatin networks to break down as well as hydrolase to be released into the liquid. The secreted urease could accelerate the physiological breakdown of urea, causing a pH increase. This quantity of AFLATOXIN is directly proportional to the change in ph levels. Considering satisfactory findings, the suggested portable equipment was effectively used to test AFLATOXIN in packaged food.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045153 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : INDUSTRIAL INTERNET OF THINGS BASED MONITORING AND INTELLIGENT ANALYSIS OF OFFLOADING TASK IN EDGE COMPUTING SYSTEM

(51) International classification :H04L 29/08
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The 5G, is also known as fifth-generation mobile communication system is the modern technology in the manufacturing industries. The foremost technical tasks that 5G networks essential to face are high speed, low end-to-end delay, high reliability, and large-scale connections. In the 5G applications, the network receives large amount of data which brings heavy load to the backhaul but also encounters the centralized processing capabilities of the core network. In order to overcome above difficulties, the mobile edge computing based on computation offloading is given in this invention. A particle swarm optimization oriented offloading task is proposed in the industrial internet of things (IIoT) environment to produce energy efficiency and to minimize the delay period during the data sharing.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045236 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ENABLING MEDICAL CONSULTATION ONLINE

(51) International classification :G06Q 50/22
(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

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(57) Abstract :
A system (10) for enabling medical consultation online is disclosed. The system includes a processing subsystem (20) which includes a registration module (50). The processing subsystem includes a specialist search module (80) to search for a first health care professional by a second health care professional. The processing subsystem includes an appointment management module (90) to reserve an appointment of the first health care professional. The processing subsystem includes a consultation module (100) to avail a consultation of first health care professional by the second health care professional. The consultation module is to provide medical records of patients relevant to the consultation. The processing subsystem includes a diagnostic module (110) to prepare a transcript of the consultation. The diagnostic module is to identify medical conditions of the patients. The diagnostic module is to recommend additional medical procedures to the patients. FIG. 1

No. of Pages : 36 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045272 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM FOR AGRICULTURAL PRODUCT QUALITY ANALYSIS AND METHOD THEREOF

(51) International classification :G06Q 50/02
(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
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(57) Abstract :
A system and method for analyzing the quality and grade of an agricultural product by employing produce specific sensors which are integrated sensors to extract multiple quality metrics from the product in a single time stamp. The system employs computational methods which depend on the past data and present data of quality metrics to improvise and derive a grading technique that considers regional or geographical attributes in deriving best fitment of quality grade to benefit all the stakeholders. Fig 1 is the system of quality analysis and grading of agricultural product.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045312 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : APPLICATION OF BLOCKCHAIN TECHNOLOGY IN SMART GRIDS

(51) International classification	:G06Q 20/06
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(57) Abstract :
[030] This invention highly concentrates in how Blockchain technologies work and clarify the interest it represents for future smart energy networks. The first part of this work focuses on how the blockchain technology works while the second part looks at its use in smartgrids. The work aims to set up a mechanism that allows prosumers to negotiate directly with each other without having to go through centralized trusted authorities. Thus, in this work, we have developed a mechanism that aims to minimize the volatility of energy prices in future smart grids, in which several devices, like intermittent generators or storage capacities, as well as incentive mechanisms like response to demand, can be the source of great price volatility that can lead to disruptions to the proper functioning of the system as a whole. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045326 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Towards 6G wireless communication networks

(51) International classification :H04W 4/18
(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
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(57) Abstract :
The 6G wireless communication network should eventually be able to integrate land, air, and maritime communications, making it more reliable and faster while also supporting a larger number of equipment’s with ultra-low potential necessities. International researchers are proposing a number of cutting-edge technologies that are currently under development as key technologies in realizing beyond 5G and 6G communications, such as AI and ML, quantum communication, quantum machine learning (QML), block chain, terahertz and millimeter waves, tactile Internet, NOMA, and minor cellular networks. In this article, we take an in-depth look at the 6G network"s dimensions, including the air interface, as well as potential technologies and infrastructure associated with it. It is worth noting that the proposed 6G networks have a diverse set of use cases and applications in several dimensions. We further discussed the key performance indicators (KPIs) of the B5G/6G, as well as encounters and future research chances

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045327 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Image processing based Smart Number Plate identifications system to monitor the movement of vehicles.

(51) International classification :B60R 13/10
(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
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(57) Abstract :
It is necessary to prepare for new urban transportation in order to better understand policy requirements and consequences. Evidence-based visions into current transportation movements. It''s critical to recognize that city transportation includes both passenger cars and freight trucks, each with their own set of driving characteristics. This distinction is frequently overlooked by both academics and practitioners. As a result of the availability of new digital data sources, it is now possible to gain a better understanding of urban transportation, and areas where policy interventions are required can be identified. This paper examines the literature on digital counting techniques and presents a summary of the findings for monitoring transportation movements, such as rounds, number plate identifications, and floating car data and developing recommendations. The potential of cameras that use ANPR to identify vehicles is being investigated. Using the methodology described in this article, ANPR camera data is transformed into useful information for city planners and other stakeholders. Ultimately, our goal is to understand the passenger transport, freight vehicle movements, stoppages, and find the commonalities and differences between different types of vehicles in the process. Our mission has been completed. Over the course of two weeks, we demonstrate our methodology using augmented data from 122 automatic number plate recognition (ANPR) cameras in the Belgian district of Mechelen-Willebroek as a case study. We also examine the zone with fewer cars and how time constraints affect the behavior of various vehicle categories. GPS data collected from heavy-duty trucks during the same time period backs up the findings. There are some promising themes and applications for ANPR camera data that can be demonstrated using case studies

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045330 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Secured Health monitoring system using cloud computing

(51) International classification :A61B 5/0205
(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

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(57) Abstract :
As used in public health surveillance, the invention generally relates to remote health monitoring systems with cloud computing. This is particularly relevant about a multi-user remote health monitoring system that can detect and gather data from healthcare professionals on the ground and systems in laboratories and hospitals to help the public health sector. It is possible to utilize the system for tracking, monitoring, and collecting patient data and for querying and collecting more information on the health of the people.

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021

(21) Application No.202141045332 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM FOR ENTITY STATE-BASED STAGE-WISE FORMAL SPECIFICATION OF PROCESSES AND A METHOD THEREOF

(51) International classification :G06Q 10/06
(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
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(57) Abstract :
Methods and systems for entity state-based stage-wise formal specification of life science processes are provided. The method, for each such stage of a life science process, comprises specifying workflow in terms of a plurality of entities and/or batches of a plurality of entities wherein entities include physical materials and digital files; applying information causing state change to the at least one plurality of entities and/or batches of a plurality of entities to form its respective new entities with a modified state by way of specifying change specific parameters; generating each of the plurality of processes in their respective stages in a graphical specification comprising a plurality of layers with layer-specific information, each said layer further includes a plurality of nodes and edges, wherein layer represents each stage of the process, node of any shape or size represents one entity and/or a batch of multiple entities including their states; and edge represents information causing the state change in the entity and/or batch of multiple entities.

No. of Pages : 37 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/10/2021

(21) Application No.202141045365 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A Novel FACTS (Flexible Alternating Current Transmission Systems) DeviceGate Turn off Thyristor Controlled Static Shunt Compensator" (GCSSC) to Enhance Power System Stability and Power Transfer Capability of Both Transmission and Distribution Systems

(51) International classification :H02J 3/00
(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
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(57) Abstract :
A Flexible A.C Transmission Systems device Gate Turn off Thyristor Controlled Static Shunt Compensator (GCSSC) is provided for improvement of power system performance. This is a as Gate Turn off Thyristor (GTO) controlled static shunt compensator used to connect in parallel with load. This controller rapidly varies the shunt susceptance using conduction angle control of GTO's with gate pulse generator. This rapid control of susceptance leads to control of injected reactive power by the device thereby enhancing terminal voltage and power transfer through the transmission or distribution lines. The turn off capability of the device made it compatible to power system requirements like other shunt type FACTS Devices viz. Static Var Compensator (SVC) and Static Synchronous Compensator (DSTATCOM). The simulation is performed with distribution systems of 11kv system and 230v systems, feeding RL loads through short transmission line. This device is compatible with all types of static shunt FACTS Devices.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/10/2021

(21) Application No.202141045370 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : Synthesis of 7-substituted benzylidene-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Derivatives

(51) International classification :C07D 487/04
(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
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(57) Abstract :
1.A pharmaceutical compound of formula (I) pharmaceutically acceptable salts, solvates or stereoisomers thereof; wherein R is '–OH, –OCH3, –CH3, –NR2, –NO2, –F, –Cl, and –Br', The compound of claim 1, wherein said compound is in substitution and dependent Ia1 7-(4-hydroxy benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ia2 7-(3-hydroxy benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ia3 7-(2-hydroxy benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ib1 7-(4-methoxy benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ib2 7-(3-methoxy benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ib3 7-(2-methoxy benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ic1 7-(4-methyl benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ic2 7-(3-methyl benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ic3 7-(2-methyl benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Id1 7-(4-amino benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Id2 7-(3-amino benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Id3 7-(2-amino benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ie1 7-(4-nitro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ie2 7-(3-nitro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ie3 7-(2-nitro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile If1 7-(4-fluoro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile If2 7-(3-fluoro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile If3 7-(2-fluoro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ig1 7-(4-chloro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ig2 7-(3-chloro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ig3 7-(2-chloro benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ih1 7-(4-bromo benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ih2 7-(3-bromo benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ih3 7-(2-bromo benzylidene)-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile Ii1 7-benzylidene-3-imino-2-phenyl-1-thioxo-1,2,3,5,6,7-hexahydropyrrolo[1,2-c]pyrimidine-4-carbonitrile 2. A method of treating a cancer patient comprising: administering a therapeutically effective amount of formula (I) to a patient in need thereof. 3. The method of claim 3, wherein said compound is administered orally, topically, parenterally and a combination thereof

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/10/2021

(21) Application No.202141045384 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SIMPLIFIED PLATFORM FOR CONNECTING MIGRANT LABOURERS AND INDUSTRIES

(51) International classification :A63B 23/04
(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
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(57) Abstract :
ABSTRACT A SIMPLIFIED PLATFORM FOR CONNECTING MIGRANT LABOURERS AND INDUSTRIES Jobs are a boost to any country's economy. The proposed invention:A SIMPLIFIED PLATFORM FOR CONNECTING MIGRANT LABOURERS AND INDUSTRIES" is AI, IoT designed to minimize the gap between migrant workers and industries by providing them a common platform where job seekers (workers) meet employers (industries). It aims to aid these migrant labourers to search and acquire industrial jobs as per a variety of factors. The novel platform stands apart as it is based on Internet-free calling and SMS facility to minimize expenses incurred by migrant labourers in searching jobs based on their skill set. The software also recognises a variety of regional languages so that migrant worker can communicate with speech-recognising bot. Furthermore, the platform offers industries an easy-to-use portal to hire labourers within a radius of their location.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/10/2021

(21) Application No.202141045545 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A Novel Approach for Automatic Image Texture Analysis and Detection of microVoids in concrete structures using Deep learning models

(51) International classification :G06K 9/62
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
ABSTRACT A Novel Approach for Automatic Image Texture Analysis and Detection of microVoids in concrete structures using Deep learning models To inspect the quality of concrete structures, surface voids or bug holes existing on a concrete surface after the casting process needs to be detected. To improve the productivity of the inspection work, this study develops a hybrid intelligence approach that combines image texture analysis, machine learning, and meta- heuristic optimization. Image texture computations employ the Gabor filter and gray-level run lengths to characterize the condition of a concrete surface. Based on features of image texture, collected image samples classified into two categories of no surface void (negative class) and surface void (positive class). To assist in extraction of features and to classify the no surface void and surface void, Deep Convolution Neural Networks (DCNN) is used. The robustness and adaptability of the trained CNN are tested on 205 images with 3120 × 4160 pixel resolutions which were not used for training and validation. The trained CNN is integrated into a smart application that detects voids in concrete structures. The results confirm that the proposed method can indeed detect voids in images from real concrete surfaces.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/10/2021

(21) Application No.202141045556 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A Novel Method for Identifying distributed denial-of-service attack and differentiating from various Flash- Events (Spoofed and Non-Spoofed

(51) International classification :H04L 29/06
(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

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(57) Abstract :
The use of distributed computing technology in web-based business applications is growing. Distributed computing is also used in SCM, CRM, e-Commerce, and banking. DDOS attacks on these applications cause the services they provide to go down or be severely disrupted entirely. In a distributed environment, such attacks target servers that offer trustworthy services to legitimate users, flooding their inboxes with bogus requests that appear to be legitimate. DDOS attacks are similar to flash crowd attacks, but they are not caused by massive amounts of traffic flow generated by certain flash events. Detecting DDOS issues after large crowds have passed through is a difficult problem that will need to be addressed in the future. Further research is required, however, to develop a complete approach capable of meeting the requirements of both deceiving and non-spoofing DDOS attempt detection variants, which are currently addressed by existing solutions. This research proposes a method for noticing and distinguishing between DDOS and flash crowds. To validate the effectiveness of the projected methodology, NS2 simulations are run on the Ubuntu using OpenSim simulation software

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/10/2021

(21) Application No.202141045557 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : An investigation into the factors that influence the IoT-based smart hospitals design.

(51) International classification :H04L 29/08
(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

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(57) Abstract :
The current digital technological innovations, which are rapidly developing, have an impact on and change the integrated management procedures in all industries, including manufacturing. Health sector has been compelled to adopt a digital transformation strategy in order to maximize the effectiveness of the methodologies that are used to manage health sector management systems (HMS). The IoT is critical in this transformation because it allows multiple devices to connect and collaborate on projects. The Internet of Things relies on infrastructure such as various sensors, connection approaches, internet protocols, databanks, cloud computing technology, and analytics to allow systems to communicate with one another. As a result, the necessary technical infrastructure and an appropriate environment must be established in order to facilitate the development of smart hospitals. Incorporating Internet of Things technology into smart hospital environments introduces new optimization factors and challenges, as well as new technologies and opportunities. Every layer of technical infrastructure, including the constraints and methods that go with it, is divided into its own infrastructure. Smart hospitals will be equipped with real-time big data analytics capabilities, as well as smart computing and real-time data analysis systems. The research has revealed what flaws can exist in the smart hospital design model at each level, as well as what considerations must be made to avoid these flaws. The Smart Hospital System Design Guide will soon be available for supervisors, developers, and investigators who are concerned in improving the design of smart hospital system to use as a guide

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
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(43) Publication Date : 15/10/2021

(54) Title of the invention : A Novel Method -Breast Cancer Detection using Textile UW band Antenna

(51) International classification :G06T 7/00
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Cancer is considered as one of the dangerous disease in the world. Researchers focus on finding best methods for detection of this deadly disease which is of various types occurring at different location of the body. Detection of cancer indicates the process of finding formation of cancerous cells in various tissues. This invention focuses on development of a accurate prediction model for detecting breast cancer. In this work, Breast Cancer Detection using Textile UW band Antenna is used. This dataset is categorized into two sets namely training data set and test data set. Designing of the system is done based on ultra wide band Antenna. This system is evaluated based on the following parameters namely F-score, specificity, sensitivity, precision, accuracy and probability of misclassification error. A highest accuracy of 87.8% is achieved from this proposed system.

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(43) Publication Date : 15/10/2021

(54) Title of the invention : SENSOR BASED INTELLIGENT SMART WATCH FOR EARLY DETECTION OF HEART ATTACKS IN PATIENTS SUFFERING FROM CARDIOVASCULAR DISEASES

(51) International classification :C07K 14/775
(86) International Application No :PCT//
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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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(57) Abstract :
Heart attack is one of the leading reasons for human deaths worldwide. When the blood supply to heart is suddenly blocked by a clot in coronary artery, heart attack occurs. This shortage of blood supply to the heart can cause serious damage to heart muscles and may sometime lead to death of the individual. However, early detection of symptoms of heart attack and providing necessary first aid could drastically reduce the mortality rate. Fatal heart attacks are quite common in people who are already suffering from cardiovascular diseases. This invention discloses a smart watch with multiple sensors that are capable to detect the possibility of cardiac arrest and inform the same to caretakers, doctors and ambulance vehicles in the nearby geographical location. The watch is designed with Electrocardiogram (ECG) sensor which is capable to detect the ECG levels of the person on a 24x7 basis. This optical heartrate monitor uses LED beam light that are capable to penetrate the skin and detect the pattern of blood flow, which is a measure to determine how well the heart is functioning. The optical sensors also detect the pulse rate and blood oxygenation levels through the skin, which are crucial for the detection of cardiac arrest. This rhythmic cardiac activity is matched with the normal cardiac activity using the machine learning based pattern recognition algorithm. If the mismatch is above a significant level appropriate alarming and sharing of information is carried out.

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(21) Application No.202141045598 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IOT Based on Wireless Sensors in Agriculture and Farming

(51) International classification :H04L 29/08
(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

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(57) Abstract :
Abstract Agriculture and farming have recently evolved into precision sensor network connectivity with a new dimension of Internet of Things technology. Farmers have been increasingly using technology to improve the quantity and quality of their agricultural output as time has passed. Farming productions are a necessary industry and employment activity. IoT has the potential to change the way we live in the world. We now have more cost-effective manufacturing, more connected autos, and more efficient townships, all of which are flavours of an integrated Internet of Things system. Smooth agriculture, aided by Internet of Things technologies, will assist farmers in reducing generated wilds and increasing efficiency. In this study, we present scalable wireless sensor network architecture for remote agriculture and farming monitoring and control utilizing IoT. Water resource irrigation and effective water resource usage are two important managements in precision agriculture and farming (PAF).Water irrigation management can be improved by integrating WSN technology and the IoT. It's used in PAF to process the effective communication of numerous wireless sensors in order to boost farmer productivity.

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(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202141045604 A
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(54) Title of the invention : A FULLY-AUTOMATED RE-CIRCULATORY AQUACULTURE SYSTEM WITH CLOUD BASED MULTI-PARAMETER MONITORING, RISK AND CONTROLLING SYSTEM AND METHOD THEREOF

(51) International classification :A01K 63/04
(86) International Application No :PCT// /
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :
The present invention relates to the fully-automatic closed aquaculture with cloud based multi-parameter monitoring and controlling system and method thereof. The fully automatic closed aquaculture with cloud based multi-parameter monitoring and controlling system comprised of a closed re-circulating aquaculture arrangement for culturing shrimp, finfish, and crustaceans and a monitoring and controlling system. The closed aquaculture arrangement further comprised of plurality of fish culturing tank, at least one water pump, at least one UV filter, at least one carbon filter, plurality of outflow control valve, plurality of aerator, plurality of inflow control valve, at least one waste removal skimmer and plurality of cylindrical conduit. The plurality of fish culturing tank further comprises three categories culturing tanks, first culturing tank for rearing seeds and juvenile, second culturing tank for first growth out process and third culturing tank for final growth out process and harvesting.

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(19) INDIA
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(21) Application No.202143029583 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SMART ENERGY METER

(51) International classification	:H04L0007033000, G06F0016330000, G06F0016953500, G01R0023020000, A63B0060420000
(86) International Application No Filing Date	:NA :NA
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(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Title: A Smart Energy Meter (FIG. I, 2, 3). The present invention provides for improvements of parameters determination and source switch w.r.t. main invention (patent# 331280). After determination of the frequency as per the main invention, first adjustment to frequency is done using the value of frequency (FIG. 1, 104). Second adjustment is done using the value of the frequency and phase shift present in the sampled values (FIG. 1, 106). Third adjustment is done using pre¬determined static values corresponding to frequency (FIG. 1, 108). Index corresponding to frequency is calculated considering 3 significant decimal places (FIG. 2, 204). Weighted average of the Custom Windowing Factors is calculated corresponding toindex" andindex+1", considering the 4th and 5th decimal places of the frequency (FIG. 2, 206) and amplitude is determined (FIG. 2, 208). Source switch helps in choosing from two power sources (FIG. 3). Other parameters are determined accurately.

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(19) INDIA
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(21) Application No.202131039535 A
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(54) Title of the invention : INVENTORY MANAGEMENT SYSTEM EMPLOYING ARTIFICIAL INTELLIGENCE

(51) International classification :G06Q0010080000, G06Q0010060000, G06N0020000000, G06Q0030020000, G06Q0040060000
(86) International Application No :NA
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Filing Date :NA

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(57) Abstract :
A reliable inventory management System is important for any business involved with multiple stock keeping units. Firms must accurately keep track of inventory count, maintain a sufficient amount of inventory on stock, and timely replenishing stock an appropriate amount of inventory. It is extremely difficult to maintain just enough inventory on stock that sustains a sufficient amount of stock to satisfactorily fulfil customers' orders without over-Stocking. There are costs of understocking and overstocking which result from the uncertainties in demand estimation and also the lead time in ordering. A System and method for evaluating an inventory management strategy combines Artificial Intelligence (AI) & Machine Learning (ML) strategies in an inventory management System. The system uses machine learning from the supplier and product masters and takes into account the opening stock, closing stock, demand and lead time variabilities and then uses artificial intelligence to adapt the input variables for future periods to forecast an accurate stock level. The System analyses the inventory portfolio on an item-by-item basis to assign the most suitable forecasting for that item and provides a high level of flexibility for the business to ensure a desired level of customer satisfaction.

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(19) INDIA
(22) Date of filing of Application :01/09/2021

(21) Application No.202131039661 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM FOR PATTERN BASED OPTION TRADING

(51) International classification	:G06Q0040040000, G06Q0040060000, G07F0011000000, H03K0017100000, G06F0016830000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
Options are derivative contracts which for the bulk of the trades on stock markets today. Option contracts are also characterised by the twin peculiarities of implied volatility and time decay. Buying options is a risky proposition for this reason but knowing the likelihood of stock movement by the stock patterns can help us in picking the stock movements which can be advantageous. Compared to option buying a larger financial commitment is required while selling an option but the risk reward ratio is more favourable. A system for identifying opportunities for buying and selling options is described here. The system uses an automatic trade signal generator which keeps tracking the basket of future and options stocks. Buy and sell signals are issued when the trade characteristics are met. Individual traders can select the risk reward ratio to suit their own preference and risk appetite.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2021

(21) Application No.202131039905 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BIO-BASED SUPERABSORBENT COMPOSITION AND ITS PREPARATION THEREOF

(51) International classification :A61L0015600000, C08J0003075000, C08L0033020000, C08L0061060000, A23J0003180000
(86) International Application No :NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present disclosure proposes a bio-based superabsorbent composition and its preparation method. The developed superabsorbent composition has improved absorbency, and flexibility. The composition comprises wheat gluten and a natural cross linker. The method for the development of the superabsorbent composition consumes minimal chemicals. The proposed optimum superabsorbent composition provides overall balanced performance characteristics with modified wheat gluten. The proposed sustainable superabsorbent composition is suitable for health and hygiene products with less or no adverse environmental impact.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
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(21) Application No.202131039906 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR VAPOUR PHASE GROWTH OF BINDER-FREE 3D-CARBON DOPED METAL NITRIDE POROUS ARCHITECTURE ELECTRODE FOR SUPERCAPACITOR AND THEREOF

(51) International classification	:H01G0011860000, H01G0011360000, A61B0005000000, H01M0004139700, C23C0014060000
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(57) Abstract :
The present disclosure proposes vapour phase growth of binder-free 3D-carbon doped metal nitride porous architecture electrode over various 3D-conducting networks for supercapacitor and thereof. In the proposed method, a series of electrodes are fabricated using vapour phase growth to obtain 3D-carbon doped metal nitride, porous architecture electrodes over various 3D-metal networks (Ni, NiCu and NiCo and thereof) over various metal substrates (Cu, Ti and SS and thereof), which is extensive to obtain 3D-carbon doped metal sulphide porous architecture electrodes and 3D-carbon doped metal phosphide porous architecture electrodes and thereof. The binder-free 3D-carbon doped metal nitride/sulphide/phosphide porous architecture electrodes efficiently produce negative thin film electrodes over the 3D-metal networks. The proposed method reduces the cost and time required to fabricate negative electrode for supercapacitors and further also applicable for fabrication of positive electrodes.

No. of Pages : 44 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2021

(21) Application No.202131040003 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AUTOMATED SMOKING ZONE MONITORING & DIRECT VOICE ALERTING TO USER.

(51) International classification	:H04Q0009020000, G08B0021140000, G08B0025000000, G08B0025100000, G08B0017103000
(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

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3)Abhishek Singh
4)Dr. Avinash B.Pawar (Associate Professor)
5)Mr. Aditya Thakur
6)Mr. Inder Kumar
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1)Debabrata Bej
2)Dr. Manish Raj (Assistant Professor)
3)Abhishek Singh
4)Dr. Avinash B.Pawar (Associate Professor)
5)Mr. Aditya Thakur
6)Mr. Inder Kumar

(57) Abstract :
Our Invention Automated Smoking Zone Monitoring & Direct Voice Alerting to User is to a minimal expense, vigorous, remote sensor that gives a drawn out time of operability without upkeep is depicted. The remote sensors are designed to speak with a base unit or repeater. At the point when the sensor unit identifies an atypical surrounding condition smoke. The sensor speaks with the base unit and gives information in regards to the odd condition. The sensor unit gets guidelines to change working boundaries or potentially control outer gadgets. The expected effect of these advances in the battle against smoking dependence and on improving stopping rates should be efficiently assessed. The point of this report is to recognize and assess the most encouraging smoking location and stopping advancements. The supporting smoking decrease or stopping programs. A Google search was likewise performed to recover the most pertinent cell phone applications for stopping smoking, considering the normal client's evaluating and the positioning figured by the web search tool calculations. All included examinations were assessed utilizing united models for detailing subjective exploration, like applied philosophies and the performed assessment convention. The majority of the current applications for stopping smoking require the clients to enlist each smoking occasion. Besides, just a limited gathering of them have been deductively assessed. The works upheld by reported exploratory assessment show exceptionally high recognition scores, anyway the trial conventions normally need fluctuation and have been directed with restricted quantities of patients just as under compelled settings very a long way from genuine use situations. A few ongoing logical works show extremely encouraging outcomes in any case, simultaneously, present hindrances for the application on genuine day by day situations.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/09/2021

(21) Application No.202131040445 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : INTELLIGENT SYSTEM AND METHOD FOR CHILD MONITORING & TRACKING SYSTEM BASED ON THE INTERNET OF THINGS

(51) International classification	:A63B0071060000, G06F0016210000, H04L0029080000, G06F0016780000, A61K0009700000
(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

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3)K.Parvathavarthine
4)Dr. Saibal Dutta
5)Dr. Jagjit Singh Dhatterwal
6)Dr. Santar Pal Singh
7)Dr. Sunil Shukla
8)Dr. Kuldeep Singh Kaswan
9)Dr. Ravi Khatwal
10)Mani Dublish
11)Dr. Pavithra G.,
12)Dr. T.C.Manjunath
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1)Dr. Satish Kumar Kalhotra
2)Dr.T.Arul Raj
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4)Dr. Saibal Dutta
5)Dr. Jagjit Singh Dhatterwal
6)Dr. Santar Pal Singh
7)Dr. Sunil Shukla
8)Dr. Kuldeep Singh Kaswan
9)Dr. Ravi Khatwal
10)Mani Dublish
11)Dr. Pavithra G.,
12)Dr. T.C.Manjunath

(57) Abstract :
The present invention relates to Intelligent system and method for child monitoring & tracking system based on the internet of things. The objective of the present invention is to solve the problems in the prior art technologies related to health monitoring of the child.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/09/2021
(21) Application No.202131040791 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A LOW TEMPERATURE DECORTICATION CUM GRINDING MACHINE

(51) International classification :B02C0019180000, A23L0019000000, B29K0021000000, B02C0019060000, B29B0017040000
(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)RAMA CHANDRA PRADHAN
3)SABYASACHI MISHRA

(57) Abstract :
An apparatus or machine for decortication and grinding of small sized fruits under lower temperature condition. The machine employs liquid nitrogen to keep the temperature lower during processing, wherein the fruits are pre-cooled in the horizontal tunnel by using liquid nitrogen as a coolant, further feed into the decortication chamber with a continuous supply of liquid nitrogen, and monitoring the temperature. The machine also provides provisions for obtaining pericarps after the decortication, by separating with sieves attached in the machine and finally feed to the grinding chamber with a continuous liquid nitrogen supply. The grinding chamber is provided with provision for grinding the pericarp into fine ground phytochemical-rich fruit powder, obtained as a final powder.

No. of Pages : 21 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.201617044695 A

(19) INDIA

(22) Date of filing of Application :28/12/2016

(43) Publication Date : 15/10/2021

(54) Title of the invention : USER EQUIPMENT AND POWER ALLOCATION METHOD

(51) International classification	:H04W 52/14
(31) Priority Document No	:PCT/CN2014/081604
(32) Priority Date	:03/07/2014
(33) Name of priority country	:PCT
(86) International Application No Filing Date	:PCT/CN2014/081604 :03/07/2014
(87) International Publication No	:WO/2016/000241
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**

1)HE, Chuanfeng

2)QU, Bingyu

3)YAN, Zhiyu

(57) Abstract :

The present invention discloses user equipment and a power allocation method, and relates to the field of communications network technologies, to resolve a problem about how to properly allocate a transmit power of an uplink channel. In embodiments of the present invention, at least one uplink channel of a first target subframe numbered i is determined; according to uplink channel information of a second target subframe numbered x, a reserved power that is reserved for a base station or a cell group in which the second target subframe numbered x is located is determined, where the reserved power is determined when uplink channel information of the second target subframe numbered x includes a PRACH or includes only an SRS channel or includes no channel, where a transmission time of the second target subframe numbered x and a transmission time of the first target subframe numbered i overlap, and a start time of the second target subframe is later than a start time of the first target subframe numbered i; and then according to the reserved power, a transmit power of each uplink channel in the at least one uplink channel of the first target subframe numbered i is determined. Solutions provided in the embodiments of the present invention are applicable to power allocation.

No. of Pages : 60 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

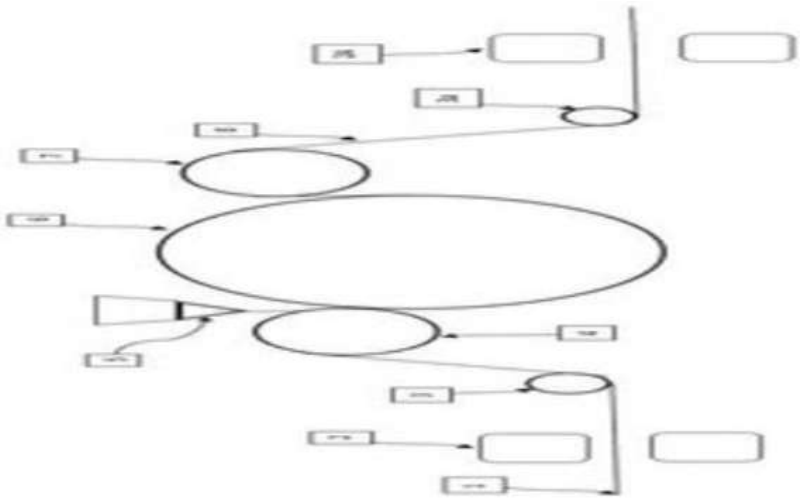
(21) Application No.201911041347 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYSTEM AND A METHOD TO MANUFACTURE UNIFORMLY COATED FABRIC BY MEASURING AND ADJUSTING THICKNESS OF COATINGS APPLIED TO AN UNCOATED FABRIC

(51) International classification	:G01B0011060000, D06N0003000000, G01B0005060000, G01B0017020000, A61K0009000000
(31) Priority Document No	:NA
(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

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(57) Abstract :
The invention discloses system and method to measure thickness of polymeric coatings fabrics using measuring gauges and adjust it as necessary. The system employs scanners (5, 5) for measuring the thickness of coatings. The scanners scan the thickness of the coatings (4, 4a) or coated fabrics (2, 3) and assesses whether they have acceptable uniformity. If the uniformity of thickness of coatings (4, 4a) or that of the coated fabrics (2, 3) is outside acceptable margin, the die bolt nozzles through which the polymeric coating melt is applied on the fabric are adjusted automatically/manually to apply more/less coating material as necessary. Fabric may be coated on one or both sides. The system is capable of measuring and adjusting thickness of coatings on one or both sides of the fabric as necessary. The method uses the system of invention to measure thickness of polymeric coatings fabrics and adjust it as necessary.



No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

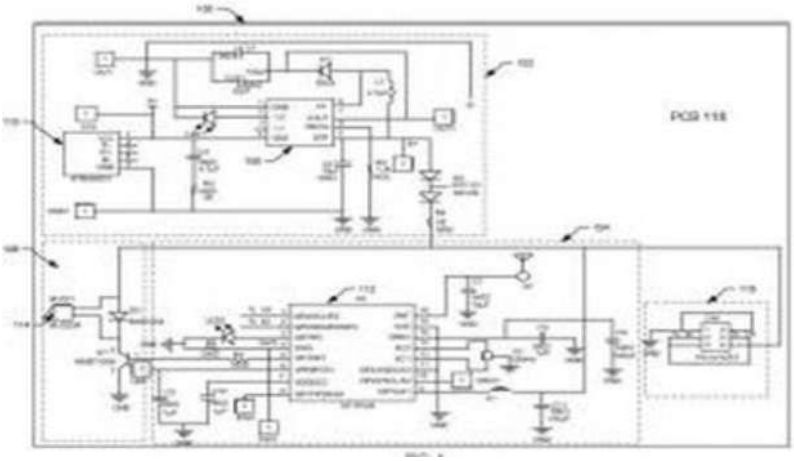
(21) Application No.202011015215 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTI-THEFT AND CHARGING ENABLING CIRCUIT

(51) International classification	:H02J0007000000, G08B0013140000, G08B0021240000, G08B0021020000, H01R0013660000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)SINGH, Krishan Kumar
2)ROY, Purvi

(57) Abstract :
The present disclosure provides a circuit for enabling anti-theft, anti-lost and charging. The circuit includes a charging IC HT4921 configured to receive electrical power from power source through micro USB connector. The IC HT4921 enables charging of various devices. The circuit incudes a communication unit having MCU ST17H26 to communicatively couple the circuit with other devices. The circuit includes an alarm unit having a buzzer to facilitate sending alert and SOS signals in case of theft, loss and emergency. The circuit can be fabricated on a PCB to provide compact circuit, which enables easier configuration of the circuit in various day to day non-computing items as well as computing items, to prevent these items from theft and loss, and also converts these items into a charging and beacon module to charge other devices and send alert and beacon signals, respectively.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

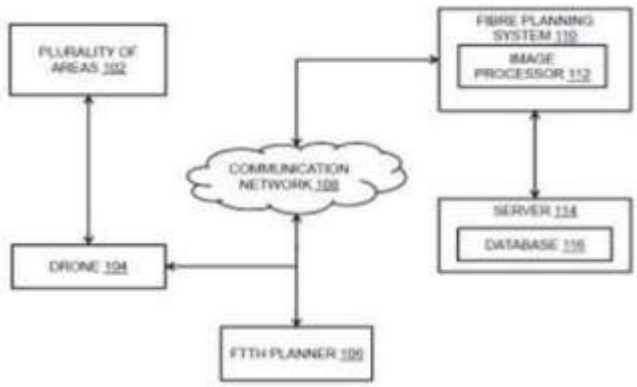
(21) Application No.202011015251 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :SYSTEM FOR PLANNING AND OPTIMIZATION OF FFTH NETWORK"

(51) International classification	:A61N0005100000, B64C0039020000, H04W0016180000, H04J0014020000, G06F0003048100
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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1)Vishwanath Chaudhary

(57) Abstract :
The present disclosure provides a system for planning and optimizing an FTTH network. The system includes a plurality of areas (102), a drone (104), an FTTH planner (106), a communication network (108), a fibre planning system (110), a server (114) and a database (116.) The drone (104) is used to capture survey data and one or more images of the plurality of areas (102). The drone (104) and the FTTH planner (106) is associated with the fibre planning system with utilization of the communication network (108). The FTTH planner (106) provides a set of information to the fibre planning system (110). The fibre planning system (110) includes an image processor (112). The image processor (112) analyses the one or more images. The fibre planning system (110) plans the FTTH (fibre to the home) network using survey data, the one or more images and the set of information.



No. of Pages : 45 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

(21) Application No.202011015294 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITION FOR AN ORAL DISPERSIBLE FILM COMPRISING ZINC SALT

(51) International classification	:A61K0009000000, A61K0009700000, A61K0047100000, A61K0047320000, A61K0047440000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)BALA, Rajni
2)MADAAN, Reecha

(57) Abstract :
The present disclosure relates to an oral dispersible film composition for pediatric diarrhea comprising: a pharmaceutically acceptable salt of zinc in therapeutically effective amount; a hydrophilic film forming polymer; a plasticizer; a disintegrating agent; a taste masking agent and a solvent. The present disclosure also relates to the process of preparing an oral dispersible film from this oral dispersible film composition and the oral dispersible film obtained.



No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

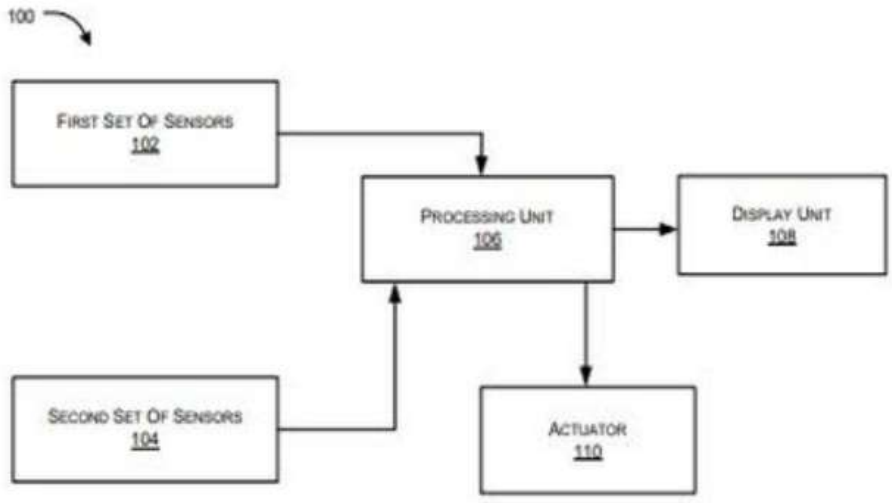
(21) Application No.202011015295 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : THERMAL SAFETY SYSTEM

(51) International classification	:A61B0005000000, A61B0005024000, A61B0005110000, G08B0029180000, G08B0021040000
(31) Priority Document No	:NA
(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

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3)SAHIB SINGH
4)JATIN SHARMA
5)SHEIFALI GUPTA
6)HARSH GUPTA
7)UTKARSH UPADHYAY
8)CHANDAN SINGH JAURA
9)PRASHANT KASHYAP

(57) Abstract :
The present disclosure describes about a fire safety system 100 for automobiles and vehicles. The system 100 comprises a first set of sensors 102 to detect the thermal parameters and second set of sensors 104 for combustion parameters associated with the vehicles and automobiles. The processing unit 106 is operatively coupled with all the components including first set of sensors 102, second set of sensors 104, GPS 308 and display unit 108.The system 100 provides the information to the user through the processing unit 106 and the display unit 108 as alert or alarm signals to avoid accidents or injuries.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

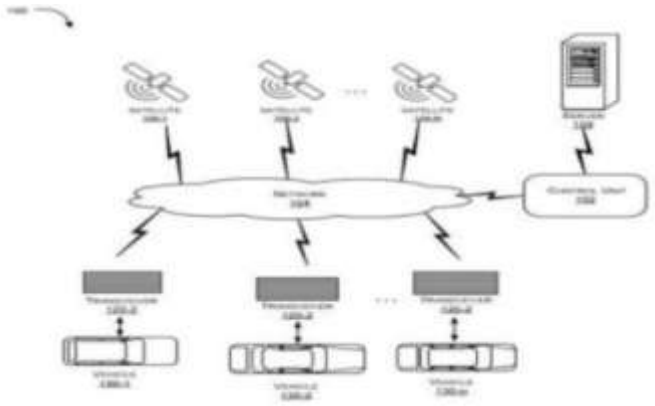
(21) Application No.202011015297 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SURVEILLANCE SYSTEM

(51) International classification	:G06K0009000000, H04N0007180000, B60R0016020000, G08G0001000000, B60W0030140000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)GAGNEJA, Kunal

(57) Abstract :
The present disclosure provides a surveillance system for monitoring a vehicle 130. The system comprises a transceiver 120 associated the vehicle 130 and a control unit 102. The control unit 120 comprises an extraction module 212, a comparison module 214, and an alert module 216. The transceiver 120 of the vehicle 130 transmits locomotional attributes of the vehicle 130 to a plurality of satellites 106. The control unit 102 extracts the locomotional attributes of the vehicle 130 from the plurality of satellites 106, determines a track associated with the vehicle 130, and compares the extracted locomotional attributes of the vehicle 130 for the determined track with a first dataset. The first dataset comprises locomotional attributes associated with one or more tracks. The control unit 102 generates an alert signal when the extracted locomotional attributes of the vehicle 130 exceed the first dataset.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020
(21) Application No.202011015298 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MATCHING NAMES ACROSS DIFFERENT LANGUAGES

(51) International classification	:G06F0017280000, G06F0017270000, G10L0015187000, G06F0016410000, G06Q0030080000
(31) Priority Document No	:NA
(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

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4)AMIT ABHISHEK
5)ANKITA SINGH
6)CHANDAN BANNERJEE
7)DEEPA KUNDU
8)DURGA VIJAYENDRAN
9)MEER MAQSOOD JAVED SYEAD
10)SUBRAT KUMAR

(57) Abstract :
The present disclosure relates to a system for matching at least one proper noun, said system comprising one or more processors to receive said at least one proper noun in a first language; process matching of said at least one proper noun with a plurality of words of the first language that are generated in real-time from a database that stores language words in a second language, said plurality of words being generated based on phonetic conversion of each syllable of language words of said second language, and combination of the syllables of said second language words to form components having one or more words in the first language, wherein, for each rule-based match between said at least one proper noun and said plurality of words, a value is assigned to corresponding word in a manner such that the word having highest value is chosen as the matching word.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

(21) Application No.202011015322 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SMART PEN WITH MOBILE

(51) International classification	:G06F0003035400, H04M0001020000, B43K0007000000, B43K0029000000, B43K0008000000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)AYUSHI SINGH
2)RUCHIKA BATHLA
3)SONIA SAINI
4)AJAY RANA

(57) Abstract :
The present invention relates to a system and method for smart pen with mobile phone. The pen is a metal pen to tender towards the mobile phone so that the mobile can easily be charged. The pen comprises body made up from metal and the nib of the pen is the metal nib. So, user can write on the sheet of paper with the metal without using any ink. A mobile has been affixed with the pen which gets rolled inside the pen. Apart from the pen and the foldable mobile our device includes other components like camera, speakers, sim card slot, and fingerprint sensors etc.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

(21) Application No.202011015355 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A COMPOSITION OF AUSTENITIC STAINLESS STEEL FOR MEDICAL IMPLANTS

(51) International classification	:C22C0038440000, A61L0027040000, C22C0038000000, C22C0038580000, A61F0002300000
(31) Priority Document No	:NA
(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

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1)G. S. MOHOBIA
2)CHANDRA SHEKHAR KUMAR
3)VAKIL SINGH

(57) Abstract :
The present invention provides a composition of austenitic stainless steel for medical implants, in particular orthopedic implants, containing carbon, manganese, chromium, molybdenum, nitrogen, nickel, silicon, copper, and iron. More particularly, the present invention provides a composition of austenitic stainless steel for medical implants having very less nickel content, high corrosion resistance, high tensile strength, high toughness and high fatigue strength, biocompatibility and having high potential for biomedical applications.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

(21) Application No.202011015369 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A HERBAL FORMULATION FOR CIGAR, STEAM INHALER AND LOTION AS PREVENTIVEPRODUCTS AGAINST CORONA VIRUS DISEASE COVID-19

(51) International classification	:A61K0036270000, A61M0016000000, A61K0036190000, A61K0036810000, A61M0015000000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)DR. AJAY KUMAR GUPTA

(57) Abstract :
A herbal formulation for Cigar, Steam inhaler and Lotion as preventive products against corona virus disease COVID-19 Disclosed herein a herbal formulation for Cigar, Steam inhaler and Lotion as preventive products against corona virus disease COVID-19. Symptoms on the persons infected from corona virus show losing taste and smell, running nose, congestion, body ache, diarrhea, continous high fever, sore throat, dry coughing and difficulty in breathing. Fritillaria, Adhatoda vasika. Solanum surattense, Piper longum, Ganoderma lucidum, Calotropis procera and Calotropis gigantica are important part of Indian system of medicines and are under use from a longer time moreover these herbs and shrubs were tested and it was observed that the phytoconstituents they possess works efficiently without any side effects if consumed in prescribed amount. All these plant show anti-viral, anti-tussive, expectorant, anti-asthmatic, anti-microbial, cough and fever suppressant. In almost all the plants, the chief active component responsible for medicinal activity is an alkaloids. These plant moisten up the dry mucus membrane, inhibit bronchial contraction, decrease mucus secretion, resolve phlegm, control coughing and restrict viral proliferation. These traditional plants make them advantageous to be used in treating corona virus (COVID-19).

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

(21) Application No.202011015370 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A HERBAL FORMULATIONS AS NUTRITIONALAND FOOD SUPPLEMENTS TO BOOST IMMUNITY AS PREVENTIVE PRODUCTS AGAINST VIRAL INFECTIONS AND CORONA VIRUS DISEASE

(51) International classification	:A61K0036270000, A61K0036670000, A61K0036190000, A61K0036896600, A61K0036000000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)DR. AJAY KUMAR GUPTA
Address of Applicant :PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, RESEARCH AND DEVELOPMENT LABORATORY, GROUND FLOOR, MM COLLEGE OF PHARMACY BLOCK 2, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA (HARYANA) - 133203 Haryana India
2)NUPUR GUPTA
3)NEHA
4)ASTHA GUPTA
5)SWANJALI SHARMA
(72)**Name of Inventor :**
1)DR. AJAY KUMAR GUPTA
2)NUPUR GUPTA
3)NEHA
4)ASTHA GUPTA
5)SWANJALI SHARMA

(57) Abstract :
A Herbal Formulations As Nutritional And Food Supplements To Boost Immunity As Preventive Products Against Viral Infections And Corona Virus Disease Disclosed herein a herbal formulations as nutritional and food supplements to boost immunity as preventive products against viral infections and corona virus disease COVID-19. Fritillaria roylei or F. cirrhosa, Adhatoda vasica, Solanum surattensei, Solanum indicum, Ganoderma lucidum, Piper longum, Diospyros melanoxylon, Calotropis procera and Calotropis gigantic; All these plants have been used in the traditional Indian system of medicine to cure for various ailments from the ancient times. Phytochemical investigation on their roots, leaves, and fruits reveals the presence of secondary metabolites like flavanoids, alkaloids, phenols saponins, glycosides, steroids, and triterpenoids which are responsible for their diversified properties for curing treatment and betterment of human. Every disease, infection or disorders are linked with the immune system therefore enhancing the immune system is required so as to dominate over the deadly diseases. To cope up with the current scenario of deadly viral infection on respiratory system and worse conditions of organ failure caused by corona virus (COVID-19), where convectional medicines are difficult to develop and rescue the people all over world. The quick movement towards traditional herbs and shrubs are in demand. Hence, present invention discloses herbal nutritional supplements as immune booster and respiratory system strengthening formulation for prevention of corona virus that has similarities with some other viruses like HSV strains. All these plant show anti-viral, anti-tussive, expectorant, anti-asthmatic, anti-microbial, cough and fever suppressant. In almost all the plants, the chief active component responsible for medicinal activity are alkaloids, polysachharides and phenolic compounds with great anti-oxidant and anti-inflammatory properties. These plant moisten up the dry mucus membrane, inhibit bronchial contraction, decrease mucus secretion, resolve phlegm, control coughing and restrict viral proliferation while lowering pro-inflammatory cytokines and increasing anti-inflammatory cytokines like Interferons and Interleukin-4 (IL-4). Interferons released in the body as immune response specifically target viral infection and IL-4 promote more class switching to produce novel antibodies against infections of viruses and bacteria. These traditional plants make them advantageous to be used in treating corona virus (COVID-19).

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

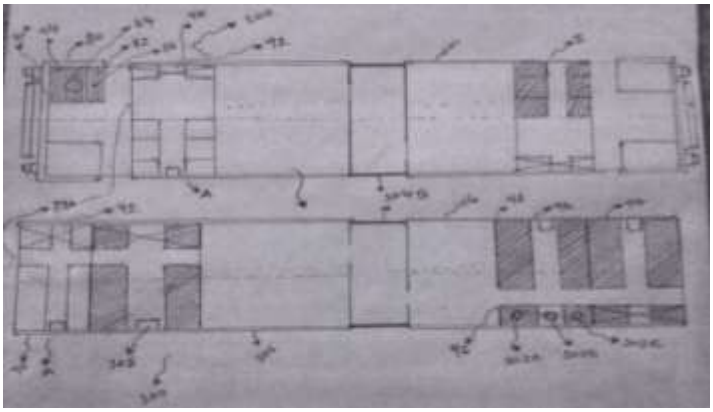
(21) Application No.202011015394 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A MULTIFUNCTION RAILWAY COACH AS A PANDEMIC EMERGENCY RESPONSE FACILITY INCLUDING QUARANTINING AND ISOLATION OF PATIENTS

(51) International classification	:A45F0003520000, A61G0003000000, A61G0007020000, G06Q0010060000, B65F0003040000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)SUBHASH CHANDER ARORA
Address of Applicant :Senior Section Engineer (SSE)/CR Shop, Carriage and Wagon Workshop Northern Railway (NR), Jagadhri Workshop, Yamuna Nagar, Haryana 135 002, India Haryana India
(72)**Name of Inventor :**
1)SUBHASH CHANDER ARORA

(57) Abstract :
A multifunction railway coach (100) as a pandemic emergency response facility including quarantining and isolation of patients is illustrated. The multifunction railway coach (100) includes an Indian style toilet (74) converted into a bathing room (80) , a set of taps (86) each having a lift type handle, a pair of curtains (88) provided transversely in the aisle of the first cabin (90) with the first cabin adapted to accommodate paramedical staff and or storage of kits and equipments, a clamping means (92), a pair of bottle holders (94), a set of three peg hooks (96) to receive personal protective clothing/equipment (PPE), one mosquito net, a set of three dustbins (102A, 102B and 102C), a protective shielding means (106) for thermal insulation and a plurality of electrical charging points. The middle berths in each cabin (A, B, C, D, E, F, G, H and I) removed for operational convenience.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

(21) Application No.202011015428 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN ECO-FRIENDLY METHOD OF FABRICATING MULLITE FOAM AND A PRODUCT THEREOF

(51) International classification	:B01J0021120000, C04B0035180000, C04B0035622000, C04B0035185000, C09D0175040000	(71)**Name of Applicant :** **1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI** Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)PRADIP KUMAR ROY** **2)SK SADDAM HOSSAIN**
(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 of fabricating eco-friendly mullite foam, comprising the steps of: a)preparing a defined percentage of rice husk ash (RHA) derived silica sol; b) adding a pre-defined ratio of reactive alumina and prepared silica sol with defined percentage of sodium silicate solution in a container; c) mixing the added solution as obtained in step (b) to form a slurry of alumina-silica; d) casting the alumina-silica slurry as obtained in step (c) by pouring it into the Plaster of Paris (POP) mold to absorb extra amount of water from slurry; e) demolding and drying the casted alumina-silica slurry as obtained in step (d) to form a solid casted mass of alumina-silica; and f) firing the dried solid mass as obtained in step e) at a predefined temperature and for predefined time with a predefined heating rate to form a silica mullite foam.



No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

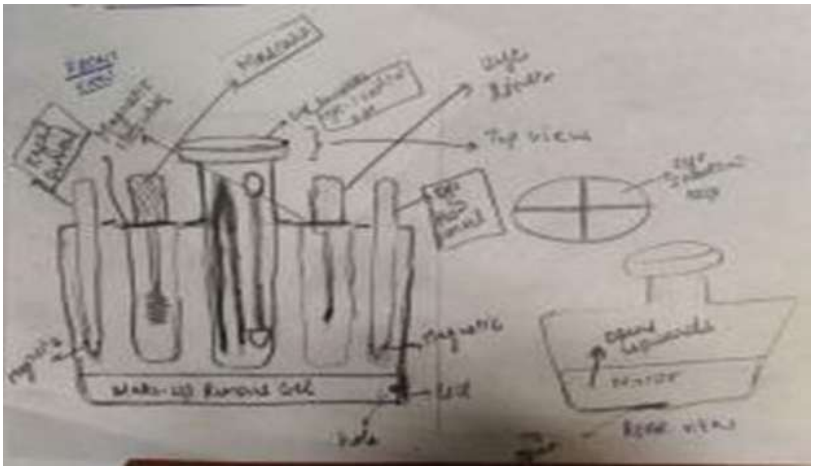
(21) Application No.202011015462 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN INTEGRATED EYE MAKEUP KIT

(51) International classification	:A61Q0001100000, A45D0044120000, C01B0003060000, A45D0040300000, G09B0019000000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)AMITY UNIVERSITY
Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(72)**Name of Inventor :**
1)KOMAL
2)POONAM SHARMA
3)SHALINI BHASKAR BAJAJ

(57) Abstract :
The present invention relates to a system and method for complete eye makeup. The system is an integrated kit for complete eye makeup. A container is provided that has multiple compartments for each of the mentioned utilities and a handy knob to lift it.



No. of Pages : 14 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

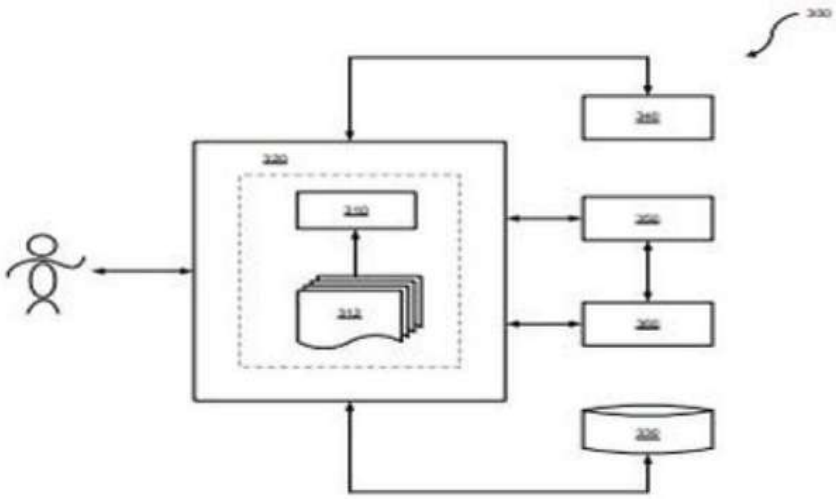
(21) Application No.202011015510 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLATFORM FOR WEB SERVICES DEVELOPMENT METHOD THEREFOR

(51) International classification	:G06F0008200000, G06F0017240000, G06F0008360000, H04N0021472000, G06F0001320300
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)Modak Technologies FZE
Address of Applicant :Dubai Silicon Oasis, DSO Dubai, UAE U.A.E.
(72)**Name of Inventor :**
1)Milind Chitgupakar
2)Aarti Joshi
3)Sai Sandeep Neeli

(57) Abstract :
A web services development platform a method therefore is provided. The web services development platform comprises a central repository having stored therein a of templates related to web services. The web services development platform further comprises a including a processing system a memory . The memory has instructions stored thereon that cause the processing system to perform operations comprising receiving a web service request from a user; selecting one or more templates from the of templates based on the web service request; stringing the selected one or more templates to a cascaded template; deploying the cascaded template in the form of an application interface (API) configured to establish with one or more of an external database an external application.



No. of Pages : 32 No. of Claims : 13

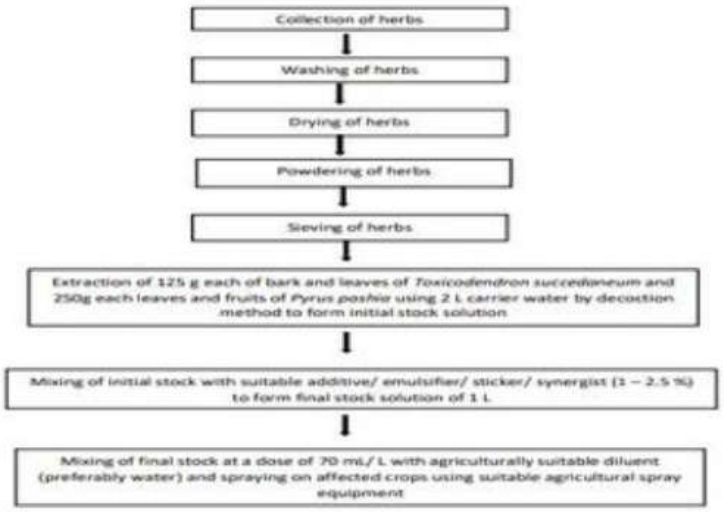
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202011015586 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITION FOR CONTROLLING AGRICULTURAL PESTS

(51) International classification	:A01N0025040000, A01N0025100000, A61K0036730000, A01N0037400000, A01N0043880000	(71)**Name of Applicant :** **1)LAL, Roshan** Address of Applicant :Vill. Patahara, PO. Bajahara, Taluka.-Sainj, Dist. – Kullu, Himachal Pradesh, India. Himachal Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)LAL, Roshan**
(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 generally to the field of agricultural pest control compositions. More specifically, the invention is directed to a composition for controlling agricultural pests comprising an extract of Toxicodendron succedaneum (L.) Kuntze and an extract of Pyrus pashia.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202011015587 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : OBJECT WITH ANTI-THEFT, POWER STORING AND CHARGING FUNCTIONS, AND SOS ALERT

(51) International classification	:G08B0013140000, G08B0021240000, G08B0021020000, G06F0008610000, A45C0013180000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)Arivation Fashiontech Private Limited
Address of Applicant :Arista Vault, Electropreneur Park, 3rd Floor, Library Building University of Delhi, South Campus, New Delhi - 110021, India. Delhi India
(72)**Name of Inventor :**
1)SINGH, Krishan Kumar
2)ROY, Purvi

(57) Abstract :
The present disclosure relates to objects with anti-theft, anti-lost, beacon module, power storage and charging function, and SOS alert. The circuit is fixedly configured with the object such that the circuit is untampered and cannot be removed from the object. The circuit of the object includes a charging IC HT4921 configured to receive electrical power from power source through micro USB connector. The IC HT4921 enables charging of various devices. The circuit incudes a communication unit having MCU ST17H26 to communicatively couple the object with other devices. The circuit includes an alarm unit having a buzzer, and the object includes buttons to facilitate sending alert and SOS signals from the object in case of theft, loss and emergency. The buttons also enable controlling operations of the mobile computing devices. The objects are selected from day to day non-computing items such as wallet, luggage, bag, cards, and the likes, as well as mobile computing devices.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202011015602 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A CHROMATOGRAPHY DEVICE

(51) International classification	:B01D0015180000, G01N0030600000, C07K0016000000, B01D0015140000, F28D0020020000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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Address of Applicant :Stevenage Bioscience Catalyst, Gunnels Wood Road, Stevenage, Hertfordshire SG1 2FX, United Kingdom U.K.
(72)**Name of Inventor :**
1)DE, Anindya K.
2)PINNOCK, Adam
3)VENNA, Anji
4)SHAMEER, Subratty
5)HJORTER, Hannes
6)ROSENGREN, Lars
7)GEBAUER, Klaus

(57) Abstract :
A chromatography device (201; 201') comprising: - at least one chromatography material unit (203), wherein said chromatography material unit comprises a convection-based chromatography material and is of a substantially rectangular shape having a length (L) and a width (W); - at least one fluid distribution system (207) which is configured to distribute fluid into and out from the at least one chromatography material unit (203), wherein said fluid distribution system (207) comprises a distribution device (209a) and a collection device (209b) between which said chromatography material unit (203) is sandwiched, wherein said distribution device (209a) and said collection device (209b) each comprises a number of parallel grooves (255) for distribution and collection respectively of a fluid to be passed through the chromatography material unit (203), wherein said parallel grooves are reaching over substantially the whole length (L) of the chromatography material unit (203) and are distributed over substantially the whole width (W) of the chromatography material unit (203).

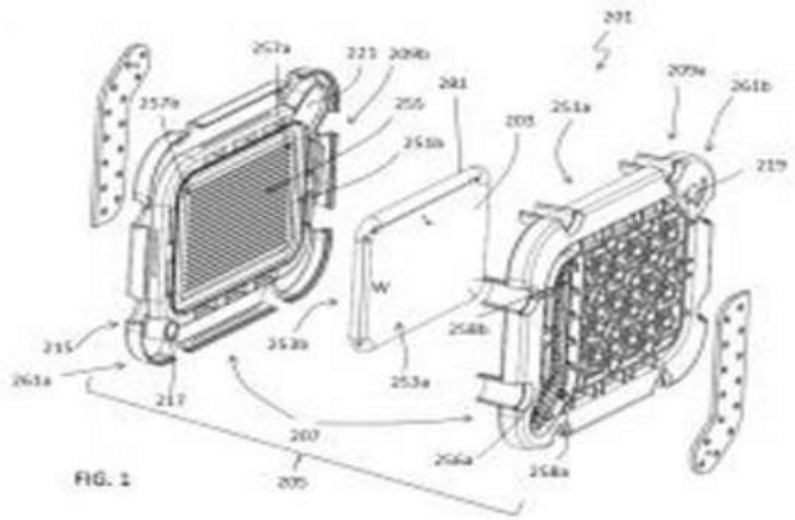


FIG. 1

No. of Pages : 33 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

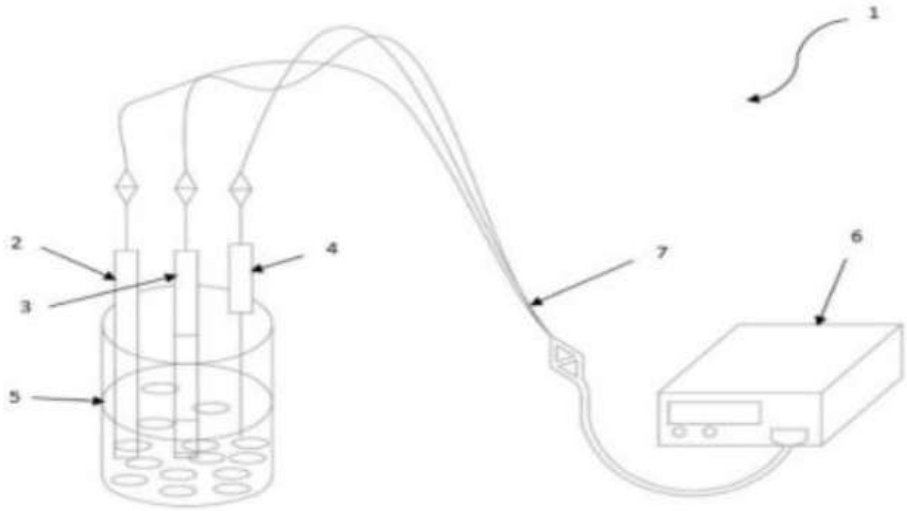
(21) Application No.202011015621 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : THREE ELECTRODE SYSTEM FOR INACTIVATION OF BACTERIAL CELLS

(51) International classification	:C12Q0001000000, H01M0010420000, G01N0027404000, A61N0001050000, G01N0017020000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI
Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(72)**Name of Inventor :**
1)MARSHAL
2)ASHISH KUMAR SINGH
3)JUHI JAISWAL

(57) Abstract :
The present invention relates to an electrode system based electrochemical stimulation or inactivation of bacteria. More particularly, the present invention relates to inactivation of bacterial cells via electro-chemical stimulation by manipulating bacterial cells under different voltage conditions and having applications as a sterilization modality against drug-resistance bacteria and 10 pathogenic microorganisms and sterilization not limited to medical devices. The electrode system comprises of a plurality of electrodes, a control and monitoring unit, a communication medium and a flask, wherein the plurality of electrodes comprise of a working electrode, a reference electrode and a counter electrode.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

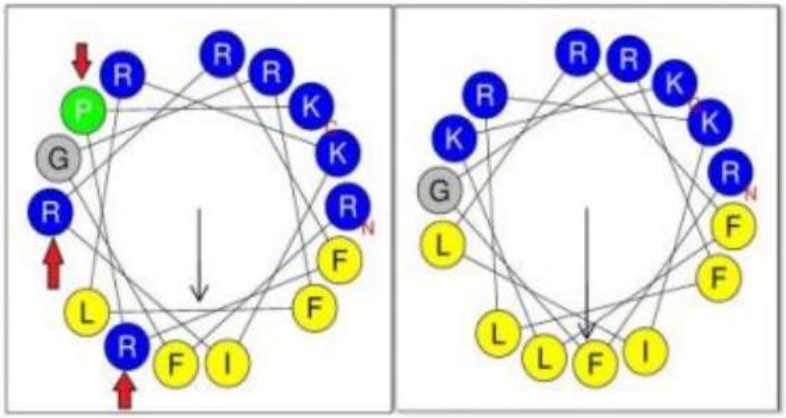
(21) Application No.202011015631 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SYNTHETIC PEPTIDE POSSESSING ANTIMICROBIAL AND ANTICANCER PROPERTIES

(51) International classification	:C07K0007060000, C12Q0001180000, C07K0014090000, C07K0014480000, G01N0033574000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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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
2)REGISTRAR PUNJAB UNIVERSITY
(72)**Name of Inventor :**
1)SAINI, Avneet
2)SHARMA, Pratibha
3)SINGLA, Neha
4)RISHI, Praveen
5)PREET, Simran
6)SEPAT, Naval Kishore

(57) Abstract :
The present disclosure discloses a synthetic peptide that comprises an amino acid as set 5 forth in SEQ ID NO: 1. Further, the disclosure also discloses a synthetic peptide that has an amino acid sequence as set forth in SEQ ID NO: 1. The synthetic peptides as disclosed herein possess dual activity of antimicrobial and anti-cancer. Also disclosed is a composition comprising the synthetic peptides as disclosed herein and a method of obtaining such compositions.



No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

(21) Application No.202011015672 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MSC-3D WRITING PEN: MELT-SUBSTRATE RGB-COLOR 3D WRITING PEN.

(51) International classification	:B29C0064209000, B33Y0030000000, B29C0064118000, D06B0003280000, E04D0015040000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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2)DR. UDAY PANWAR (ASSOCIATE PROFESSOR)
3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
4)MR. AAYUSH MANGAL
5)MISS. PARI NIDHI SINGH
6)MR.PAWAN KUMAR SINGH
(72)**Name of Inventor :**
1)DR. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR)
2)DR. UDAY PANWAR (ASSOCIATE PROFESSOR)
3)PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)
4)MR. AAYUSH MANGAL
5)MISS. PARI NIDHI SINGH
6)MR.PAWAN KUMAR SINGH

(57) Abstract :
My inventionMSC-3D Writing Pen" 3D writing pen comprising a housing which receives on one end a melt-substrate RGB- Color. An intelligent nozzle is arranged almost fully inside the housing at the other end of the barrel. The intelligent nozzle receives the melt-substrate RGB- Colour on the inside of the housing, melts the melt-substrate RGB- Color, and releases melted melt-substrate RGB- Color towards the outside. Inside the housing is a transport mechanism for moving the melt-substrate through the pen. The pen has a feed tube between the transport mechanism and the nozzle. The latter is configured to receive the melt-substrate RGB- Color from the transport mechanism. The pen has a heating coil wounded around the nozzle. The heating coil is heating the intelligent nozzle and the intelligent nozzle is subsequently heating the melt-substrate RGB- Color. The heat is dissipated by providing a fan in the writing pen. An aluminium element surrounding the feed tube avoids that the melt-substrate is softening in the feed tube. In use, the 3D writing pen is provided with a melt-substrate which is entering the housing through the opening up to the transport mechanism and then subsequently in the feed tube. The pen is switched on and the transport mechanism moves the melt-substrate from the opening to the intelligent nozzle by means of a gear being in contact with the melt-substrate. When the latter reaches the nozzle, the heating element melts the melt-substrate RGB- Color to be extrude at the exit of the intelligent nozzle as melted melt-substrate. Moving the 3D writing pen with a suitable speed enables a user to create 3D objects.

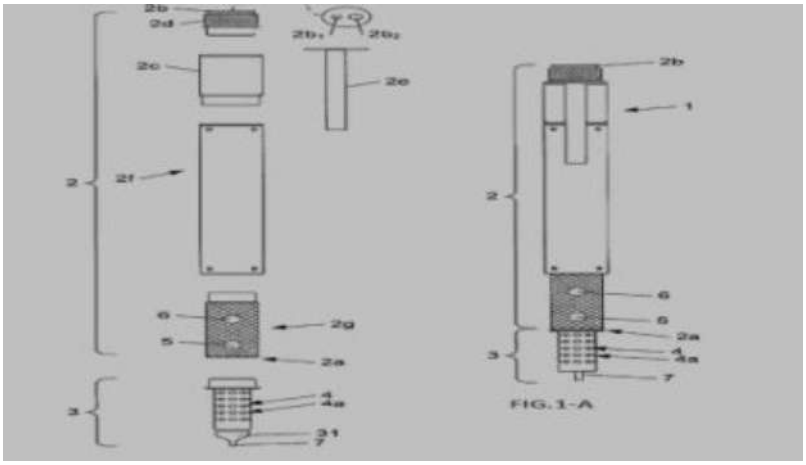


FIG.1-A

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

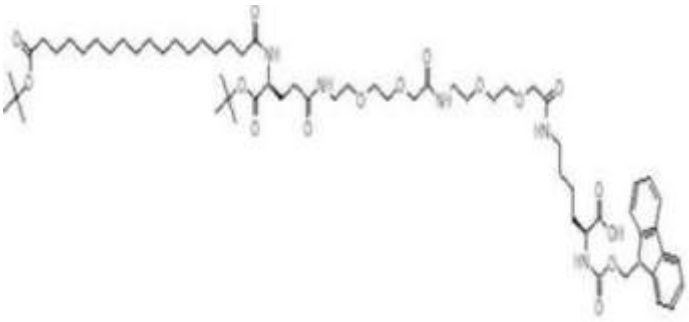
(21) Application No.202011015687 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF SEMAGLUTIDE SIDE CHAIN

(51) International classification	:C07D0417120000, C07D0409120000, C07C0213080000, C07D0403140000, C07C0067080000
(31) Priority Document No	:NA
(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

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1)CABRI, Walter
2)LAHIRI, Saswata
3)NAIN, Sachin
4)MALE, Sridhar
5)SINGH, Govind
6)SOKHI, Sarbjot Singh
7)SHUKLA, Sonu Prasad
8)Sandeep
9)PANDEY, Maneesh Kumar

(57) Abstract :
The present invention relates to an improved process for the preparation of a compound of Formula 1, O O O NH O O O NH O O O NH O O O HN O OH HN O O 10 Formula 1 The invention also provides improved processes for the preparation of intermediates used in the synthesis of Formula 1. The compound of Formula 1 is used in the synthesis of Semaglutide.



No. of Pages : 41 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

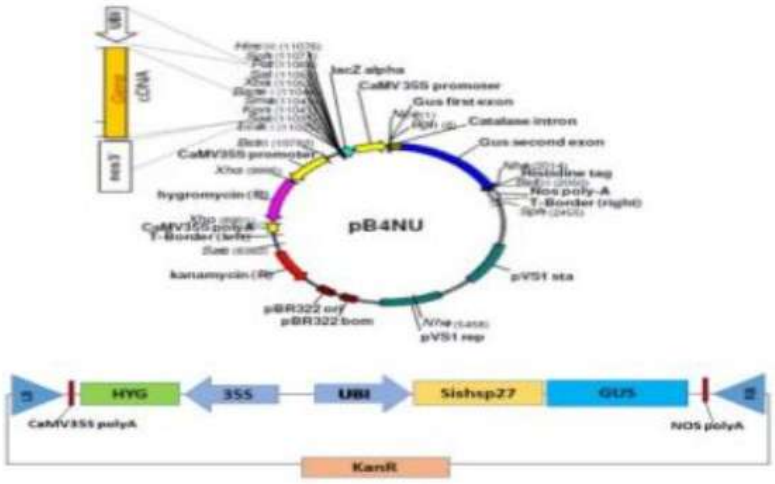
(21) Application No.202011015704 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A METHOD FOR ENHANCING HEAT TOLERANCE AND PHOTOSYNTHETIC EFFICIENCY IN RICE PLANT

(51) International classification	:C12N0015820000, C07K0014415000, A61K0038170000, A01H0005100000, C12Q0001689500
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)National Institute of Plant Genome Research
Address of Applicant :Aruna Asaf Ali Marg, New Delhi - 110067, India Delhi India
(72)**Name of Inventor :**
1)SINGH, Roshan Kumar
2)PRASAD, Manoj

(57) Abstract :
The present invention provides a method for enhancing heat tolerance and photosynthetic efficiency in a rice plant, the method comprising transforming a rice plant with a recombinant construct comprising a nucleic acid sequence encoding a heat shock protein having SEQ ID NO. 1; obtaining the transformed rice plant of step (i) containing the recombinant construct; and selecting the plant having increased heat tolerance and photosynthetic efficiency when compared to the wild type rice plant cell. The method of the present invention results in rice plant with improved agronomic traits.



No. of Pages : 42 No. of Claims : 8

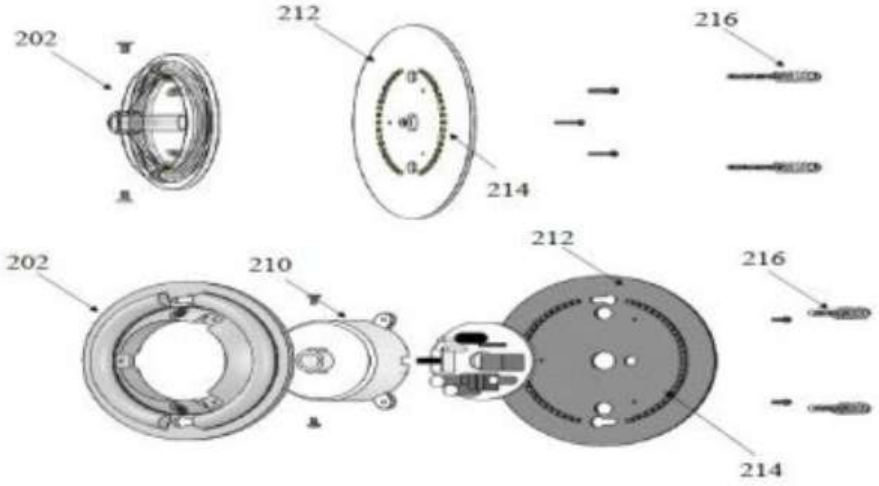
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020
(21) Application No.202011015706 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : LED LAMP STRUCTURE

(51) International classification	:H05K0001140000, H05K0003360000, H05K0001180000, H04M0001020000, F21K0009000000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MOHIT MITTAL

(57) Abstract :
LED lamp (200) having a diffuser (202) arranged at the top of the module board (208), the diffuser (202) comprising two semi-spherical shaped protruded section (202a,202b) placed opposite to one another and adjacent to the peripheral structure of the diffuser and provided with two diametrically opposite holes (204a,20b) formed in between the protruded section and a circular hole (206) provided in a center an electric part (210) arranged in the circular hole (206) provided in the center of the diffuser (202) comprising a shell, a driver printed circuit board, and a rechargeable battery received in the shell , a module board (212) arranged at the base of the LED lamp (200), the module board (212) comprising a plurality of LED lamp beads (214) being attached to the top of the module board (212) and a plurality of fasteners (216) to detachably mount the diffuser (202) on the module board (212).



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

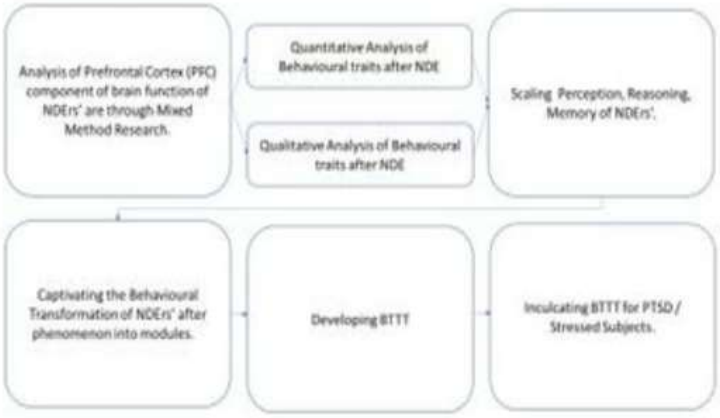
(21) Application No.202011015713 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A BEHAVIOR TRANSPORTATION DEVICE

(51) International classification	:G06Q0030020000, A61M0025000000, G01R0033560000, B42D0015000000, A61B0005055000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)AMITY UNIVERSITY
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(72)**Name of Inventor :**
1)G. Raghavendra Prasad

(57) Abstract :
The Behavioural Transportation Device focuses on causage link of emotion & behavior with the help of unique cognitive biomarker obtained from a specific target study group to be utilized against the odds. The present invention focuses on emotional equilibrium (a custom acquired state of mind or stateless state) as a major therapeutic technique.



No. of Pages : 12 No. of Claims : 7

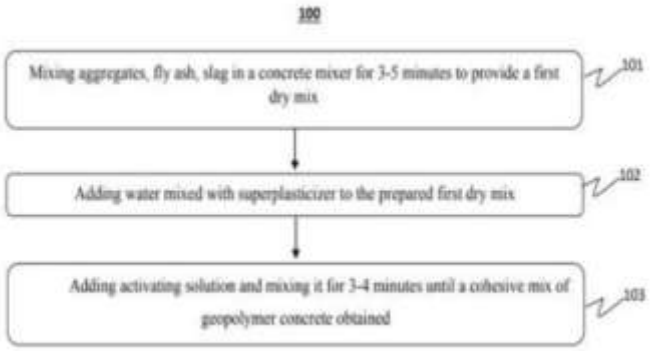
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020
(21) Application No.202011015750 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A GEOPOLYMER CONCRETE MIX AND METHODS TO PRODUCE GEOPOLYMER CONCRETE MIX, AND PAVER BLOCKS OF GEOPOLYMER CONCRETE MIX

(51) International classification	:C04B0028000000, C04B0012000000, C04B0028080000, E01C0019480000, C04B0040000000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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Address of Applicant :NTPC Bhawan, SCOPE Complex 7, Institutional Area, Lodi Road, New Delhi, 110003, India Delhi India
(72)**Name of Inventor :**
1)PRANAY
2)NARENDRA KUMAR SONI
3)RAJIV SATYAKAM
4)BRAHAM PAL SINGH
5)SATYA PRAKASH

(57) Abstract :
The present invention is directed to a fly ash based geopolymer concrete mix containing a binder, wherein the binder comprises of fly ash in an amount of 12 – 17% by weight; slag in an amount of 6 – 10% by weight; activating solution in an amount of 7 – 10% by weight; superplasticizers in an amount of 0.2 – 2.0% by weight of binder or in an amount of 0.2 to 0.5% by weight of geopolymer concrete mix; aggregate in an amount of 57 – 78% by weight. The present invention also discloses a process for preparation of said concrete mix and a process for preparation of paver blocks using said concrete mix.



No. of Pages : 28 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

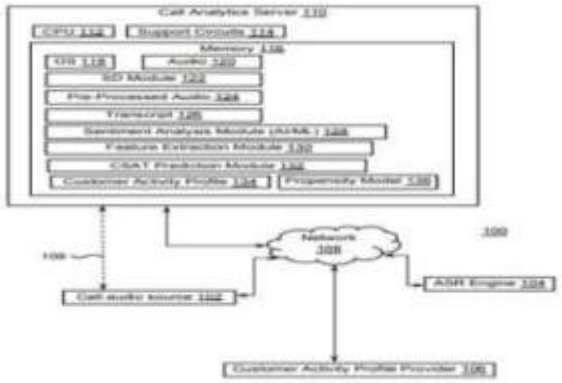
(21) Application No.202011015761 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND APPARTUS FOR PREDICTING CUSTOMER BEHAVIOR

(51) International classification	:G06Q0030020000, G06F0017270000, G10L0015260000, H04M0003428000, H04M0003523000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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1)Sindhuja GOPALAN

(57) Abstract :
A method and apparatus for predicting customer behavior is disclosed. The method comprises organizing a transcribed, diarized text of a conversation in a call, into a predefined number of sets, determining features corresponding to a sentiment score, a percentage and/or count of positive words, and a percentage and/or count of negative words for each of the a predefined number of sets, determining word count features corresponding to the word count for each of the a predefined number of sets, determining features corresponding to a call talk time, a call hold time and a call hold percentage based on the transcribed text. Based on all the determined features, the method determines whether the customer is satisfied or not, the customer activity based on an activity profile of the customer, and whether the customer used escalation terms based on the transcribed text. Based on the customer satisfaction, customer activity, and the customer use of escalation terms, the method determines a probability of a customer action.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

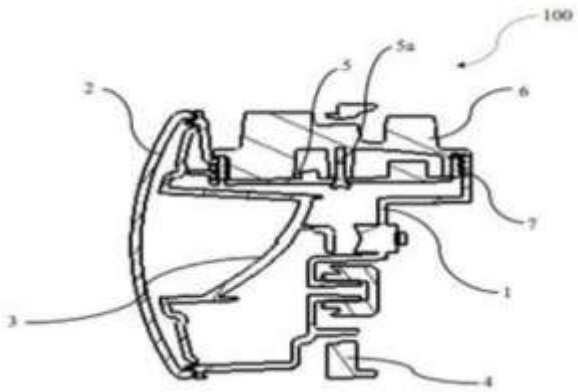
(21) Application No.202011015764 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : LED FOG LAMP ASSEMBLY

(51) International classification	:B60Q0001200000, F21W0102300000, F21W0103400000, H05B0045000000, H05B0045370000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)C.S. Singh
2)Amit Kumar Srivastava
3)Ashish Anand
4)Manish Tewari

(57) Abstract :
A fog lamp device (100) for vehicles comprises a housing (1), a lens (2), a reflector (3), a LED PCB module (5), and a heat sink (6). The housing is configured to attach with the vehicle. The housing has an opened front end and a closed rear end. The lens is positioned at the opened front end of the housing. The reflector is disposed at the closed rear end of the housing. The LED PCB module is placed between the opened 15 front end and the closed rear end of the housing. The LED PCB module comprises a Printed Circuited Board (PCB) (5a) and a lighting source (5b) electronically coupled with the PCB. The heat sink is integrally coupled with the LED PCB module. The heat sink, the lens and the reflector are coupled with the housing to maintain the alignment of the reflector with the light source and the lens.



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

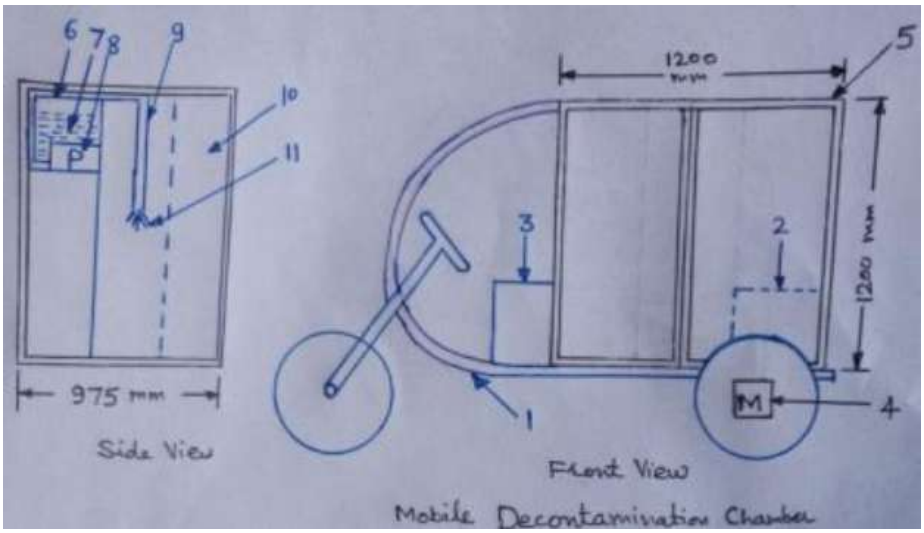
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202011015782 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM FOR MOBILE DECONTAMINATION CHAMBER

(51) International classification	:A61L0002220000, A61L0002180000, A61M0016100000, A61L0002260000, A61L0002200000	(71)**Name of Applicant :** **1)Dr MOHAN LAL AGGARWAL** Address of Applicant :M E Deprtment J C BOSE UNIVERSITY OF SC.& TECHOLOGY FARIDABAD-121006 Haryana India **2)Dr Krishan Kumar Verma**
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)Dr MOHAN LAL AGGARWAL** **2)Dr Krishan Kumar Verma**
(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 :
There is spread of COVID-19 to nearly every country and people require a large number of non contact type personnel sanitization enclosure. In this novel scientific system, a battery operated E-rickshaw is proposed in which driver compartment is separated from rear part i.e. patient chamber. There is single entry in the rear cabin for entering a person in closed chamber which will be closed automatically after entry of the person. The rear chamber will be a decontamination chamber which will make the human body as well as other surfaces virus frees by disinfection chemicals spray from nozzle inside the closed chamber.



No. of Pages : 4 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202011015827 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLASMA BIO-MARKERS FOR DIAGNOSIS AND PREDICTION OF ALS (AMYOTROPHIC LATERAL SCLEROSIS)

(51) International classification	:C07K0014470000, C12Q0001688300, G01N0033680000, A61B0005160000, A61B0005048400
(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)KHOSLA RADHIKA
4)BHUTANI HIMSHIKHA
5)RAIN MANJARI
6)THAKUR KESHAV
7)MEHRA PRIYA
8)GUPTA PAWAN KUMAR
9)ANAND AKSHAY
10)MODGIL SHWETA

(57) Abstract :
Plasma levels of two biomarker proteins viz. VEGF receptor protein called VEGFR2 and Optineurin protein OPTN are disclosed for diagnosis and prediction of ALS in humans. The mean levels of VEGFR2 in normal subjects ranged from 0.0005 to 0.1083 with a mean of 0.007±0.017 pg/µg. In case of ALS patients, the VEGFR2 levels were significantly lower (– p value of 3.4x10-4), ranging from 0.0006-.0088 with a mean of 0.002±0.001. In case of the other marker i.e. OPTN, the levels ranged from 0.0091 to 0.7493 with a mean of 0.059±0.091 in normal subjects and from 0.0114 to 0.17780 with a mean of .028±0.021 in ALS patients. The difference i.e. p value was highly significant i.e. 6.9x10-5. Compared to DNA testing, estimation of biomolecules in plasma is a simpler task and can help in the early detection and prediction of ALS in a fast, accurate and economical manner.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

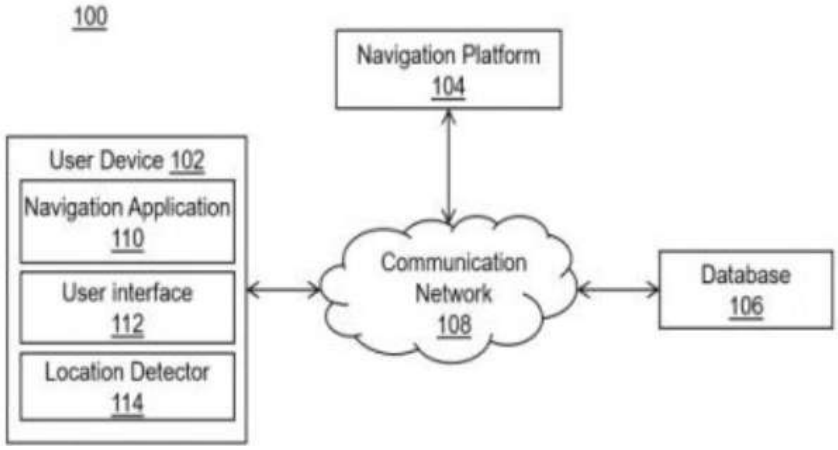
(21) Application No.202011015829 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR DYNAMIC ROUTE SELECTION

(51) International classification	:G01C0021340000, H04W0004800000, G01C0021360000, G08G0001096800, G01C0021200000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MOHIT GAMBHIR
2)SAPNA GAMBHIR
3)NAMITA MITTAL

(57) Abstract :
A dynamic route selection system (100), the dynamic route selection system (100) comprising: an input module (202) configured to receive a travel data from a primary user; a trip generation module (204) configured to generate an initial route (312) based on the received travel data; a route sharing module (206) configured to share the generated initial route (312) with one or more secondary users; a route selection module (208) configured to enable at least one secondary user to recommend an alternate route (608); a display module (210) configured to display the recommended alternate route (608) on a user device of the primary user; and a navigation module (212) configured to generate navigations when the primary user accepts the recommended alternate route (608).



No. of Pages : 43 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

(21) Application No.202011015836 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PIVOTABLE PUSH BUTTON SWITCH FOR VEHICULAR APPLICATIONS

(51) International classification	:H01R0013703000, H01H0019140000, H01H0013020000, H01H0009040000, H01H0001580000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SINGH,Dinesh
2)RANJAN, Rakesh
3)DUTT, Kamal

(57) Abstract :
The invention provides a pivotable push button switch (100), comprising a housing (102) having an aperture (104) on a first wall (106) and a set of fixed contact terminals (108) disposed within the housing. The switch further a knob member (112) located completely outside the housing and coupled to an axis defining member (114) formed outside the housing. The knob member receives an actuating force and exhibits pivotal movement with respect to an axis defining member. The knob member actuates a carrier (116) disposed within the housing. The carrier accommodates a moving contact member (126) that selectively establishes electrical connection between the set of fixed contact terminals. The switch provides high level of protection against ingress of foreign contaminants; is of selfcleaning type; uses less number of parts, can be manufactured easily and at is cost effective.

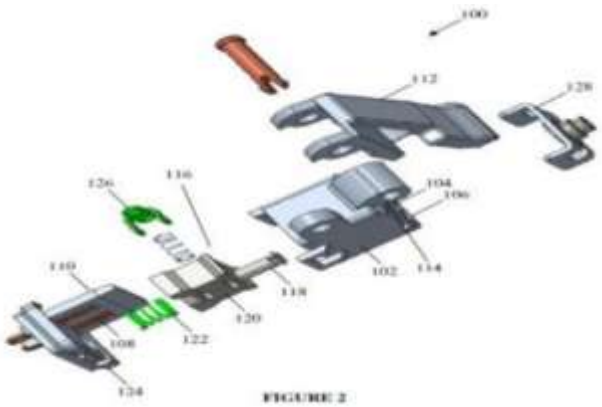


FIGURE 2

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

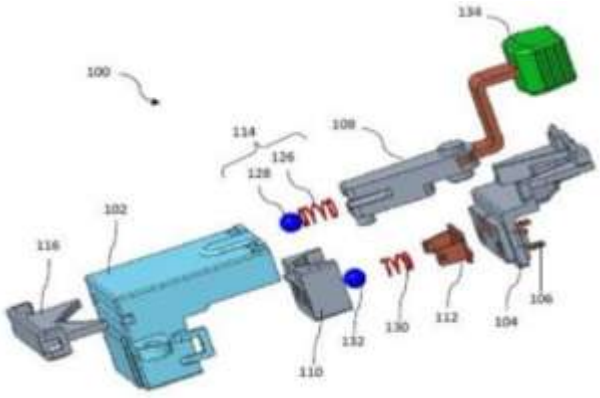
(21) Application No.202011015837 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A WINKER SWITCH

(51) International classification	:B60Q0001260000, H01H0013180000, F16H0059020000, H05K0005060000, A61M0005240000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SINGH, Dinesh
2)RANJAN, Rakesh
3)KASHYAP, Pradeep
4)RANA, Gaurav

(57) Abstract :
The invention provides a winker switch (100), said winker switch (100) comprising housing (102); a cover (104) for covering the housing (102), the cover (104) accommodating a set of fixed contact terminals (106); a lever assembly (108) defining a first end and a second end, the first end of the lever assembly being located inside the housing (102) and the second end being located outside the housing (102), the lever assembly (108) exhibiting a pivotal movement in response to receiving an actuating force; a carrier (110) located within the housing (102), the carrier (110) being operably coupled to the lever assembly (108) and exhibiting to-and-fro movement in response to the lever assembly (108) exhibiting a pivotal movement, the carrier (110) accommodating a moving contact member (112) that selectively comes in contact the set of fixed contact terminals (106) to define a first electrical path and a second electrical path; a follower mechanism (114) accommodated by the first end of the lever assembly (108); and an auto-return assembly (116) co-operating with the follower mechanism (114). The auto-return assembly (116) comprises a sealing wall (118) and a cam plate (120) projecting substantially perpendicularly there-from; and a rear wall (122) of the housing (102) is provided with an aperture (124) for receiving cam plate (120) and the sealing wall (118) is adapted to seal the aperture (124).



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

(21) Application No.202011015839 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NOVEL VIRUS AND BACTERIAL DEACTIVATION SYSTEM AND METHOD FOR RESPIRATORY PROTECTION

(51) International classification	:A61L0002232000, B01J0020300000, E05B0017000000, A61K0031370000, B01J0020100000
(31) Priority Document No	:NA
(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

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2)JASDEEP KAUR
(72)**Name of Inventor :**
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2)JASDEEP KAUR

(57) Abstract :
Novel virus and bacterial deactivation system and method for respiratory protection This invention relates to antimicrobial and antiviral any surface including fabrics having a topically applied novel formulation finish. The antimicrobial fabric exhibits long lasting antimicrobial and antiviral efficacy and also exhibits antimicrobial efficacy after repeated wash cycles. Also provided is a method for making the novel antimicrobial and antiviral surfaces including fabric.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/05/2020

(21) Application No.202014019248 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :IMPROVEMENT IN OR RELATING TO TUBULAR REACTORS”

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000
(31) Priority Document No	:2005191.8
(32) Priority Date	:08/04/2020
(33) Name of priority country	:U.K.
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MORRIS, David C

(57) Abstract :
A process and apparatus wherein a process material comprising two or more distinct phases are fed continuously to a tubular reactor containing an agitator wherein as the phases flow along the reactor the agitator displaces at least part of a first phase from its natural position to within a second phase where it is distributed within the second phase by the agitator and the agitator is designed to allow the first phase that is distributed within the second phase to flow naturally back towards its natural distinct position within the reactor as the phases pass through the reactor, useful for mixing and/or reacting liquid/liquid; gas/gas and liquid/gas mixtures

No. of Pages : 16 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/07/2020

(21) Application No.202014028263 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ROTATION MODULE AND DISPLAY APPARATUS INCLUDING THE SAME

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000
(31) Priority Document No	:10-2020-0042874
(32) Priority Date	:08/04/2020
(33) Name of priority country	:Republic of Korea
(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

(71)**Name of Applicant :**
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2)U4MTECH
(72)**Name of Inventor :**
1)Jaeneung LEE
2)Chul-Yong CHO
3)Moonyoung KIM
4)Soonsuk SEO

(57) Abstract :
A display apparatus includes a display including a front surface configured to display an image and a rear surface provided with a mounting groove. The display apparatus further includes a rotation module including at least one body that is configured to couple to the display by being inserted into the mounting groove, the rotation module further including a drive motor configured to provide a driving force to rotate the display about an axis perpendicular to the front surface and the rear surface of the display. The display apparatus further includes a bracket configured to be mounted on a stand or a wall and to which the rotation module is coupled. The display and the rotation module are configured to lock together by the display and the rotation module being coupled.

No. of Pages : 71 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2020

(21) Application No.202014041462 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : USER INTERFACES FOR ENABLING AN ACTIVITY

(51) International classification	:G06Q0010100000, H01L0021311000, H04H0020780000, G06Q0030020000, G06F0003048400
(31) Priority Document No	:63/008,586
(32) Priority Date	:10/04/2020
(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 :**
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2)Reza ABBASIAN
3)ADLER, Darin
4)CHAN, Ada
5)Dana J. DUBOIS
6)ETZEL, Charles B.
7)FERRY, Kenneth Arthur Abraham
8)FALKENBURG, Steven
9)FEDERIGHI, Craig M.
10)Christopher Patrick FOSS
11)Sam H. GHARABALLY
12)Brian Erik GOLDBERG
13)Nicholas Stephen DOHERTY
14)Nahir A. KHAN
15)KO, Heena
16)Keith P. KOWALCZYKOWSKI
17)MEHRA, Rishab
18)PAUL, Grant
19)Pallavika RAMASWAMY
20)ROBBIN, Jeffrey L.
21)James S. SAVAGE
22)Matthew SIBSON
23)SINGH, Shaman
24)STACK, Caelan G.
25)YIN, Lumiung
26)Charles H. YING
27)Mark M. XUE
28)ZHANG, Hengliang
29)Xiaoyue Zhang

(57) Abstract :
The present disclosure generally relates to user interfaces for enabling an activity using a computer system. In some embodiments, exemplary user interfaces for invoking an activity associated with an application are described. In some embodiments, exemplary user interfaces for customizing displayed content based on circumstances under which the content was invoked are described. In some embodiments, exemplary user interfaces for managing applications that were used to enable activities are described. In some embodiments, exemplary user interfaces for managing settings for applications used to enable activities are described.

No. of Pages : 274 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2020

(21) Application No.202014041516 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : USER INTERFACES FOR ENABLING AN ACTIVITY

(51) International classification	:G06Q0010100000, H01L0021311000, H04H0020780000, G06Q0030020000, G06F0003048400
(31) Priority Document No	:63/008,586
(32) Priority Date	:10/04/2020
(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

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29)Xiaoyue Zhang

(57) Abstract :
The present disclosure generally relates to user interfaces for enabling an activity using a computer system. In some embodiments, exemplary user interfaces for invoking an activity associated with 5 an application are described. In some embodiments, exemplary user interfaces for customizing displayed content based on circumstances under which the content was invoked are described. In some embodiments, exemplary user interfaces for managing applications that were used to enable activities are described. In some embodiments, exemplary user interfaces for managing settings for applications used to enable activities are described.

No. of Pages : 277 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/09/2020

(21) Application No.202014042455 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ACCELERATOR-EQUIPPED PNEUMATIC CYLINDER

(51) International classification	:F15B0015220000, G03B0043000000, F15B0015280000, C23C0016440000, F15B0015140000
(31) Priority Document No	:109201679
(32) Priority Date	:15/02/2020
(33) Name of priority countryregion	: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

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(72)**Name of Inventor :**
1)SUN,YING

(57) Abstract :
An accelerator-equipped pneumati c cylinder includes a cylinder block, a switch valve, and pneumatic cylinder. The cylinder block defines therein a piston chamber and a pressure chamber. The switch valve has a valve seat installed in the cylinder block and between the piston chamber and the pressure chamber. A controller is installed in the valve seat for controlling the piston chamber and the pressure chamber to be communicated with e ach other or not. The pneumati c cylinder has a piston portion re ceived in the piston chamber, and has a shaft portion extending outward from the cylinder block. At a moment when a channel is made opened by the controller and the piston chamber and the pressure chamber come into communication with e ach other, the piston portion is pushed by a pressure medium at an accelerated speed, so that the shaft portion is pushed outside the piston chamber at the accelerated speed.

No. of Pages : 35 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/07/2020

(21) Application No.202015029539 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR DECREASING TAU EXPRESSION

(51) International classification	:C12N0015113000, C07D0471140000, H04L0025020000, C07D0403140000, A61K0039395000
(31) Priority Document No	:62/270165
(32) Priority Date	:21/12/2015
(33) Name of priority country	:U.S.A.
(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 Filed on	:201614043552 :20/12/2016

(71)**Name of Applicant :**
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Address of Applicant :Lichtstrasse 35, 4056 Basel, Switzerland Switzerland
(72)**Name of Inventor :**
1)Manuela POLYDORO OFENGEIM
2)Jan WEILER

(57) Abstract :
Provided herein are compositions and methods for decreasing tau mRNA and protein expression. These compositions and methods are useful in treating tau-related diseases and disorders.

No. of Pages : 260 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020
(21) Application No.202015053381 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AXLE ASSEMBLY HAVING A GEAR REDUCTION UNIT AND AN INTERAXLE DIFFERENTIAL UNIT

(51) International classification	:B60K0017346000, B60K0017160000, B60K0017360000, F16H0037080000, F16H0057040000
(31) Priority Document No	:15/785,515
(32) Priority Date	:17/10/2017
(33) Name of priority country	:U.S.A.
(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 Filed on	:201814024940 :04/07/2018

(71)**Name of Applicant :**
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Address of Applicant :2135 West Maple Road, Troy, Michigan 48084, USA, U.S.A.
(72)**Name of Inventor :**
1)Keeney, Christopher
2)Eschenburg, Dale

(57) Abstract :
Axle assembly(10) comprising housing assembly(20) that receives differential assembly(28); input shaft(72) that is partially received in housing assembly and is rotatable about first axis(80); gear reduction unit(24'', 24''') that is connected to input shaft, wherein said unit includes planetary gear set(350, 450) that has sun gear(360) and planetary ring gear(364, 364') that are rotatable about first axis and planet carrier(366) that rotatably supports planet pinion(362) that is in meshing engagement with sun gear and planetary ring gear, wherein planetary ring gear is moveable between first position in which planetary ring gear is coupled to housing assembly such that planetary ring gear does not rotate about first axis and second position in which the planetary ring gear is coupled to planet carrier such that planet carrier and planetary ring gear are rotatable together about first axis; and interaxle differential unit(26) that is partially received in planet carrier and that operatively connects planetary gear set to differential assembly and output shaft(76).

No. of Pages : 65 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2020

(21) Application No.202017008282 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RULE-BASED CONTENT SHARING

(51) International classification :G06F 21/62
(31) Priority Document No :PCT/IB2017/055222
(32) Priority Date :30/08/2017
(33) Name of priority country :PCT
(86) International Application No :PCT/IB2017/055222
Filing Date :30/08/2017
(87) International Publication No :WO/2019/043433
(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)TOBASHI, Fawzi
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2)HEGAG, Jamal
3)FARES, Mohamed Ramadan
(72)**Name of Inventor :**
1)TOBASHI, Fawzi
2)HEGAG, Jamal
3)FARES, Mohamed Ramadan

(57) Abstract :
Systems and methods for exchanging time-bounded and location-bounded prioritized content batches are described. The methods included sending a tagged content from a sender"s mobile device via a server to one or more recipients, and applying the access rules to determine the access rights of the recipients. Multiple rules are defined such as count rule, priority rule, time validity rule, location rule, batch rule, compound rule, and token matching rule. The sender sets parameters to define these rules while the server and recipient apply these rules. All rules must be fulfilled. Otherwise, the server prevents the recipient from accessing the content. Compound rules combine different parameters to make the recipients compete to access content elements. The rules are used in education, workforce management, gaming, infotainments.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/09/2020

(21) Application No.202017040094 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM FOR CONFIGURATION AND STATUS REPORTING OF AUDIO PROCESSING IN TV SETS

(51) International classification	:G06F0009480000, H04Q0011040000, G06F0011160000, G06F0013400000, G06F0011220000
(31) Priority Document No	:62/649,461
(32) Priority Date	:28/03/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/024216 :27/03/2019
(87) International Publication No	:WO/2019/191186
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)THAT CORPORATION
Address of Applicant :45 Sumner Street, Milford, Massachusetts 01757-1656, USA U.S.A.
(72)**Name of Inventor :**
1)Timothy A. BRAULT
2)Fen XU
3)Matthew EASLEY

(57) Abstract :
Systems are disclosed including a television (TV) set having included audio system. The TV set permits control over various functions, at least including audio volume, via a remote control. When the viewer activates the remote volume control, a graphic appears indicating the state of the volume control and, optionally the mute status. The graphic can be presented on the TV screen. In alternate embodiments, the graphic may be presented on a display of the remote, or even some other location, e.g., a different remote control. If a mute button is provided on the remote control, when the viewer activates the mute button, a graphic appears indicating the state of muting and, optionally, the volume control status. The TV set also offers control over various aspects of the audio system, including settings which go beyond volume up/down, generally through some sort of menu system.

No. of Pages : 53 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202017040553 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ION REMOVAL SYSTEM

(51) International classification	:C02F 1/58, C02F 5/00
(31) Priority Document No	:2018-086280
(32) Priority Date	:27/04/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/004224 :06/02/2019
(87) International Publication No	:WO 2019/207901
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MAEDA, Yasunar
2)KIHARA, Ayane
3)AKITA, Tomohiro

(57) Abstract :
This ion removal system is provided with: an ion removal device comprising a hard-water accommodation part that accommodates hard water, and a microbubble generator that generates microbubbles and supplies the same to the hard-water accommodation part, the ion removal device causing metal ions contained in the hard water in the hard-water accommodation part to be adsorbed by the microbubbles, crystallizing the adsorbed metal ions, and causing the metal ion crystals to precipitate, thereby removing the metal ions from the hard water; and a particle injection device for injecting particles that contain the same element as the metal ions into the hard water at injection points positioned in the hard-water accommodation part or positioned upstream from the hard-water accommodation part along the flow direction of the hard water.

No. of Pages : 67 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/10/2020

(21) Application No.202017045803 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTI-CXCL13 ANTIBODIES FOR TREATING AUTOIMMUNE DISEASES AND CANCER

(51) International classification	:A61K0039000000, C07K0014520000, C07K0016280000, C07K0014740000, A61P0031080000
(31) Priority Document No	:PCT/CN2018/106158
(32) Priority Date	:18/09/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/106409 :18/09/2019
(87) International Publication No	:WO 2020/057540
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)GU, Haijuan
2)YANG, Qiumei

(57) Abstract :
Provided are antibodies or fragments thereof having binding specificity to the human chemokine (C-X-C motif) ligand 13 (CXCL 13) protein. In various examples, the antibodies or fragments thereof include a VH and VL CDRs as disclosed herein, or variants thereof. Methods of using the antibodies or fragments thereof for treating autoimmune diseases and disorders are also provided.

No. of Pages : 77 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/10/2020

(21) Application No.202017046080 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHODS AND ASSAYS FOR MODULATING GENE TRANSCRIPTION BY MODULATING CONDENSATES

(51) International classification	:C12N0015630000, C09K0008584000, A61K0009000000, A61K0008390000, C08L0083040000
(31) Priority Document No	:62/647613
(32) Priority Date	:23/03/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/023694 :22/03/2019
(87) International Publication No	:WO 2019/183552
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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6)DALL'AGNESE, Alessandra
7)SHRINIVAS, Krishna
8)ABRAHAM, Brian J
9)BOIJA, Ann
10)COFFEY, Eliot
11)DAY, Daniel S.
12)GUO, Yang E.
13)LI, Charles H
14)KLEIN, Isaac
15)MANTEIGA, John C.
16)SABARI, Benjamin R
17)SCHUIJERS, Jurian
18)WEINTRAUB, Abraham S
19)ZAMUDIO, Alicia V.
20)AFEYAN, Lena K
21)OKSUZ, Ozgur
22)HENNINGER, Jonathan E

(57) Abstract :
Described herein are compositions and methods for modulating gene regulation by modulating condensate formation, composition, maintenance, dissolution and regulation.

No. of Pages : 340 No. of Claims : 74

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2020

(21) Application No.202017047357 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MULTI-TYPE TREE DEPTH EXTENSION FOR PICTURE BOUNDARY HANDLING

(51) International classification	:H04N0019119000, H04N0019960000, H04N0019700000, H01L0027120000, H04N0019174000
(31) Priority Document No	:62/678241
(32) Priority Date	:30/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/064061 :29/05/2019
(87) International Publication No	:WO 2019/229169
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)GAO,Han
2)ZHAO,Zhijie
3)ESENLIK,Semih
4)KOTRA, Anand, Meher
5)CHEN, Jianle

(57) Abstract :
The present disclosure provides apparatuses and methods for splitting an image into coding units. An image is divided into coding tree units (CTUs) which are hierarchically partitioned. Hierarchical partitioning includes multi-type partitioning such as binary tree or quad tree splitting. For CTUs completely within the image and CTUs on the boundary, respective multi-type partition depths are chosen. The present disclosure provides for multi-type partitioning flexibility in a boundary portion of the image.

No. of Pages : 36 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2020

(21) Application No.202017047404 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND APPARATUS FOR ENVELOPE SHAPING OF MULTI-CARRIER SIGNAL IN ENVELOPE TRACKING TRANSMISSION

(51) International classification	:H04L0027260000, H03F0001020000, H04L0025030000, H03F0001320000, H04L0005000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2018/088834 :29/05/2018
(87) International Publication No	:WO 2019/227305
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)WANG, Zhancang
(72)**Name of Inventor :**
1)WANG, Zhancang
2)HE, Chen

(57) Abstract :
A method and an apparatus for envelope shaping of a multi-carrier signal in envelope tracking transmission are disclosed. According to an embodiment, a baseband version of an envelope portion belonging to each of multiple carriers in the multi-carrier signal is positioned such that a frequency spacing between adjacent positioned envelope portions is smaller than that between corresponding adjacent carriers. The positioned envelope portions are combined into a composite envelope. The composite envelope is shaped. The shaped composite envelope is split into baseband versions of shaped envelope portions belonging to the multiple carriers. The baseband version of each shaped envelope portion is repositioned such that a frequency spacing between adjacent repositioned envelope portions is equal to that between corresponding adjacent carriers.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/11/2020

(21) Application No.202017051538 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IL-11RA ANTIBODIES

(51) International classification	:A61P0035000000, C07K0016280000, A61K0039000000, G01N0033680000, C07K0016240000
(31) Priority Document No	:1809700.6
(32) Priority Date	:13/06/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2019/065600 :13/06/2019
(87) International Publication No	:WO 2019/238884
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)BOEHRINGER INGELHEIM INTERNATIONAL GMBH
(72)**Name of Inventor :**
1)COOK, Stuart Alexander
2)SCHAEFER, Sebastian

(57) Abstract :
Provided are antigen-binding molecules capable of binding to IL-11Ra, and methods of medical treatment and prophylaxis using the same.

No. of Pages : 114 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/11/2020

(21) Application No.202017052034 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLASTICIZER COMPOSITION AND RESIN COMPOSITION COMPRISING SAME

(51) International classification	:C08K0005120000, C08K0005000000, C07C0069750000, C08K0005100000, C08L0027060000
(31) Priority Document No	:10-2018-0162237
(32) Priority Date	:14/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/017480 :11/12/2019
(87) International Publication No	:WO 2020/122591
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)KIM, Hyun Kyu
2)KIM, Joo Ho
3)MOON, Jeong Ju

(57) Abstract :
The present invention relates to a plasticizer composition comprising a cyclohexane-1,2-diester-based substance and diisononyl terephthalate. The plasticizer composition is excellent in terms of plasticization efficiency, heat loss, and heat-resistant elongation retention compared with a conventional phthalate-based plasticizer, whereby the plasticizer can be provided to replace the conventional plasticizer.

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052267 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TERPENE GLYCOSIDE DERIVATIVES AND USES THEREOF

(51) International classification	:A23L0027300000, A21D0002360000, A23L0002600000, A23L0027200000, A23L0027000000
(31) Priority Document No	:PCT/CN2018/108654
(32) Priority Date	:29/09/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/EP2019/075784 :25/09/2019
(87) International Publication No	:WO 2020/064788
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)YIN, Dan-Ting
2)WANG, Yi-Min
3)GAN, Xian-Wen

(57) Abstract :
The present disclosure relates generally to terpene glycosides, such as certain such compounds extracted from Stevia rebaudiana Bertoni, Rubus suavissimus, or Siraitia grosvenorii. The disclosure also provides for the use of such compounds as food ingredients, flavors, and sweeteners, and related methods. The disclosure also provides ingestible compositions comprising such compounds, as well as processes for extracting such compounds selectively from certain plant sources.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052270 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HELICAL ACTUATOR SYSTEM FOR SOLAR TRACKER

(51) International classification	:H02S0020320000, F24S0030000000, F24S0030425000, F16H0019000000, F16H0019040000
(31) Priority Document No	:16/002273
(32) Priority Date	:07/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035393 :04/06/2019
(87) International Publication No	:WO 2019/236583
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)AU, Alexander W.
2)SMITH, Andrew
3)TRAN, Poi K.

(57) Abstract :
A solar tracking system is provided and includes a solar array, a plurality of support beams configured to support the solar array, a torque tube coupled to the plurality of support beams, a base configured to rotatably support the torque tube, and an articulation system configured to rotate the torque tube relative to the base. The articulation system includes a first helical tube coupled to the torque tube, a first helical tube support disposed on the base and configured to slidably support the first helical tube, and a gearbox in mechanical communication with the first helical tube. Actuation of the gearbox causes the first helical tube to translate within the first helical tube support and the first helical tube support is configured to rotate the first helical tube as the first helical tube is translated therein to cause a corresponding rotation of the solar array.

No. of Pages : 39 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052277 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ELECTROPORATION SYSTEMS, METHODS, AND APPARATUS

(51) International classification	:A61N0001320000, A61B0018140000, A61N0001040000, A61N0001050000, A61B0018120000
(31) Priority Document No	:62/665553
(32) Priority Date	:02/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/030437 :02/05/2019
(87) International Publication No	:WO 2019/213421
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)RODRIGUEZ, John F.
2)PHUNG, Brandon Dang
3)TWITTY, Christopher G.
4)JIN, Jason

(57) Abstract :
Provided herein are systems, methods, and apparatus for electroporation, which may include an applicator; an endoscope, trocar or the like; a generator; and a drug delivery device. The applicator may include a control portion, an insertion tube connected to the control portion, an actuator engaged with the control portion, and a plurality of electrodes comprising a first electrode having a first tip and a second electrode having a second tip. The plurality electrodes may be configured to move between a retracted position and a deployed position in response to actuation by the actuator. A distance between the first tip of the first electrode and the second tip of the second electrode may be greater in the deployed position than in the retracted position. Various treatment methods are also provided.

No. of Pages : 142 No. of Claims : 191

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052280 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RATCHETLESS TIE-DOWN ASSEMBLIES AND RELATED METHODS

(51) International classification	:B60P0007080000, A44B0011120000, B65D0063160000, F16G0011120000, B25B0025000000
(31) Priority Document No	:62/670009
(32) Priority Date	:11/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032031 :13/05/2019
(87) International Publication No	:WO 2019/217968
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :137 Cascilla Road Holcomb, Mississippi 38940 U.S.A.
(72)**Name of Inventor :**
1)FOUNTAIN, III, Fred Liden

(57) Abstract :
Tie-down assemblies and methods of their use are provided. A tie- down assembly (200) includes a buckle (210), a first strap (220), and a second strap (230). The buckle includes a frame (240), a handle (250) pivotably attached to the frame and configured to pivot about a first axis between an open position and a closed position, and a drum rotatably attached to the handle and configured to rotate about a second axis, wherein the second axis is spaced apart from and extends parallel to the first axis. The first strap is attached to the frame, and the second strap is configured to removably attach to the drum.

No. of Pages : 61 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052281 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DENTAL APPLIANCE POSITIONING CASE

(51) International classification	:A61B0005060000, E01F0009529000, A45D0044200000, A61C0019020000, A61B0034200000
(31) Priority Document No	:62/667420
(32) Priority Date	:04/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/030969 :06/05/2019
(87) International Publication No	:WO 2019/213671
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WILSON, Wesley, P.
2)OSIBOV, Anthony

(57) Abstract :
A medical device storage device comprises a base, case insert, and insert hump. The insert hump is structured to position a medical device within a cavity formed at least partly by the case insert. At least a portion of a sensor is located within the insert hump and configured to detect a feature of the medical device. The feature of the medical device may correspond to an aspect of a treatment plan.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052282 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHODS OF IDENTIFYING, SELECTING, AND PRODUCING SOUTHERN CORN RUST RESISTANT CROPS

(51) International classification	:C12N0015820000, A01H0001040000, C12N0015113000, C12Q0001689500, A01H0005080000
(31) Priority Document No	:PCT/CN2018/090067
(32) Priority Date	:06/06/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/US2019/032497 :15/05/2019
(87) International Publication No	:WO 2019/236257
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)TABOR, Girma M
4)CHEN, Gengshen
5)DING, Junqiang
6)LAI, Zhibing
7)WANG, Hongze
8)YANG, Qianhui

(57) Abstract :
The field is related to plant breeding and methods of identifying and selecting plants with resistance to southern corn rust. Provided are methods to identify novel genes that encode proteins providing plant resistance to southern corn rust and uses thereof. These disease resistant genes are useful in the production of resistant plants through breeding, transgenic modification, or genome editing.

No. of Pages : 43 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052283 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AQUEOUS GRAVURE PRINTING INK

(51) International classification	:C09D0011322000, C09D0011037000, C09D0011033000, B41M0005000000, C09D0011030000
(31) Priority Document No	:2018-110368
(32) Priority Date	:08/06/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/014626 :02/04/2019
(87) International Publication No	:WO 2019/235048
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)OZAKI, Yuki
2)UEDA, Yasufumi
3)MIZUSHIMA, Ryuma
4)MATSUZONO, Takuto

(57) Abstract :
The present invention relates to an aqueous gravure printing ink which contains a pigment, an aqueous organic solvent, a surfactant and water, and which is configured such that: the aqueous organic solvent contains a glycol ether that has a boiling point of 100-260°C; the surfactant contains a silicone surfactant that has a specific constituent unit; the content of the aqueous organic solvent in the ink is 1-10% by mass; and the content of water in the ink is 50-80% by mass. This ink places little burden on the environment, while having excellent print density and excellent dryability.

No. of Pages : 52 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052284 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ODOR-CONTROL ABSORBENT MATERIALS AND ABSORBENT ARTICLES AND RELATED METHODS OF USE AND METHODS OF MAKING

(51) International classification	:A61F0013150000, A61F0013840000, A61L0015200000, A61L0015280000, B32B0005020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/US2018/034759 :25/05/2018
(87) International Publication No	:WO 2019/226179
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)WEST, Hugh

(57) Abstract :
Absorbent materials configured to sequester trimethylamine (TMA), absorbent articles made therefrom, related methods of use, methods of measuring a reduction of free TMA, and related methods of making absorbent articles are described.

No. of Pages : 25 No. of Claims : 67

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052287 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CYCLOPENTANONE COMPOUNDS

(51) International classification	:C11B0009000000, A61K0008400000, C11D0003500000, A61L0009010000, C07D0317060000
(31) Priority Document No	:18200512.4
(32) Priority Date	:15/10/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/077756 :14/10/2019
(87) International Publication No	:WO 2020/078892
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)COULOMB, Julien
2)DEMOLE, Edouard

(57) Abstract :
The present invention relates to the use as perfuming ingredients, e.g. to impart odor notes of the fruity, fruity-exotic types, of cyclopentanone compounds of formula (I) in the form of any one of its stereoisomers or a mixture thereof, and wherein n represents 1 or 2.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052289 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR BIOCATALYTIC PRODUCTION OF TERPENE COMPOUNDS

(51) International classification	:C12N0009160000, C07D0307920000, C07H0021040000, C12P0017040000, C07K0007060000
(31) Priority Document No	:18182783.3
(32) Priority Date	:10/07/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/068609 :10/07/2019
(87) International Publication No	:WO 2020/011883
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)SCHALK, Michel
2)ROCCI, Letizia
3)SOLIS ESCALANTE, Daniel

(57) Abstract :
Provided herein are biocatalytic methods of producing terpene compounds by applying a novel type of phosphatase enzyme. The method allows the fully biochemical synthesis of terpene compounds, like for example copalol and labdendiol, and derivatives thereof, which serve as valuable intermediates for the production of perfumery ingredients, such as, for example, ambrox. Also provided are novel fully biochemical multistep processes for the production of such compounds as well as novel phosphatase enzymes and mutants and variants derived therefrom.

No. of Pages : 115 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052290 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TREATMENT PLAN FACILITATOR

(51) International classification	:A61B0005000000, G16H0020100000, A61B0005110000, G16H0050200000, A61C0019040000
(31) Priority Document No	:62/667419
(32) Priority Date	:04/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/030965 :06/05/2019
(87) International Publication No	:WO 2019/213669
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WILSON, Wesley, P.
2)OSIBOV, Anthony

(57) Abstract :
A medical treatment tracking device with a cavity configured to store a medical device and one or more sensor configured to obtain data about the medical device. Based on the data obtained by the sensor, adherence to an aspect of a treatment plan is determined by one or more processor. The one or more processor is also configured to determine compliance with the treatment plan based on the adherence determination. A transmitter may then transmit the compliance determination may to an external device.

No. of Pages : 17 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052323 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : FURIN INHIBITORS

(51) International classification	:C07C0059520000, C07C0057580000, C07C0057300000, A61K0038050000, C07C0059840000
(31) Priority Document No	:62/670050
(32) Priority Date	:11/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/062098 :10/05/2019
(87) International Publication No	:WO 2019/215341
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)DEMARTINO, Michael P.
4)GUAN, Huiping Amy
5)HU, Yan
6)MILLER, Aaron Bayne
7)QIN, Donghui
8)WU, Chengde
9)ZHANG, Zhiliu
10)LIN, Xiaojuan

(57) Abstract :
This invention relates to novel compounds according to Formula (I) which are inhibitors of furin, to pharmaceutical compositions containing them, to processes for their preparation, and to their use in therapy for the treatment of fibrotic diseases, including pulmonary fibrosis, renal fibrosis, liver fibrosis, skin fibrosis, ocular fibrosis, cardiac fibrosis, and other miscellaneous fibrotic conditions. The disclosed compounds may also be useful for treating other furin-mediated conditions, including but not limited to, hypertension, cancer, infectious diseases, and genetic disorders (e.g., cystic fibrosis (CF)), and neurodegenerative disorders.

No. of Pages : 661 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052325 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : OUTLET-COATED CERAMIC HONEYCOMB BODIES AND METHODS OF MANUFACTURING SAME

(51) International classification	:B01D0046240000, F01N0003022000, F01N0003280000, C04B0038000000, B01J0035040000
(31) Priority Document No	:62/667369
(32) Priority Date	:04/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/030657 :03/05/2019
(87) International Publication No	:WO 2019/213563
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)KHODOSEVICH, Konstantin Vladimirovich
4)MILLER, Kenneth Richard
5)PIMPALGAONKAR, Hrushikesh Govindrao
6)SAKEKAR, Kunal Upendra
7)SHEN, Min
8)ST. CLAIR, Todd Parrish

(57) Abstract :
A coated ceramic honeycomb body comprising a honeycomb structure comprising a matrix of intersecting porous walls forming a plurality of axially-extending channels, at least some of the plurality of axially-extending channels being plugged to form inlet channels and outlet channels, wherein a total surface area of the outlet channels is greater than a total surface area of the inlet channels, and wherein a catalyst is preferentially located within the outlet channels. and preferentially disposed on non-filtration walls of the outlet channels. Methods and apparatus configured to preferentially apply a catalyst-containing slurry to the outlet channels and non-filtration walls are provided, as are other aspects.

No. of Pages : 44 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202017052344 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : STABILIZED FUNGICIDAL COMPOSITION COMPRISING CYCLODEXTRIN

(51) International classification	:A01N0043653000, B65B0031040000, C12N0001140000, B65B0007000000, B65D0081180000
(31) Priority Document No	:62/679561
(32) Priority Date	:01/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/034639 :30/05/2019
(87) International Publication No	:WO 2019/232201
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LE, Duy
2)MATHEW, Philip
3)WU, Tai-Teh
4)ZHANG, Jian
5)DAS, Anjan

(57) Abstract :
The present invention provides a liquid formulation comprising a) a triazole an/or pyrazole fungicide; and b) at least one cyclodextrin compound. The present invention also provides a method for inhibiting degradation of a triazole fungicide in a liquid formulation, comprising (a) packaging the formulation in a suitable container; (b) reducing oxygen exposure of the triazole fungicide in the formulation as compared to oxygen exposure of the triazole fungicide when the formulation is in contact with air; and (c) closing or sealing the container.

No. of Pages : 38 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020

(21) Application No.202017052443 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HERBICIDAL COMPOSITIONS

(51) International classification	:A61K0031415000, C08L0083040000, A01N0043800000, A01N0047400000, A01N0043760000
(31) Priority Document No	:62/680914
(32) Priority Date	:05/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035642 :05/06/2019
(87) International Publication No	:WO 2019/236738
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)HEMMINGHAUS, John
2)SENGUPTA, Ashoke K.

(57) Abstract :
The present invention relates to various pesticidal compositions including non-water-continuous herbicidal dispersion compositions and processes for preparing these compositions. The present invention further relates to herbicidal application mixtures including water continuous dispersion compositions, processes for preparing these application mixtures, and various methods of use. Further, the present invention relates to various herbicidal compositions having improved application properties.

No. of Pages : 79 No. of Claims : 85

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020

(21) Application No.202017052444 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR THE REDUCTION OR TREATMENT OF FIBROSIS

(51) International classification	:A61K0031474500, C07K0016240000, A61K0009000000, A61P0011000000, A61K0009160000
(31) Priority Document No	:62/687718
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/038036 :19/06/2019
(87) International Publication No	:WO 2019/246298
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)AFEYAN, Raffi
3)LEE, Chung-Wei
4)LUITHARDT, Harry
5)HAMM, Luke, S.
6)MARUKIAN, Svetlana
7)DAOU, Nadine

(57) Abstract :
This disclosure provides compositions and methods for reducing or treating fibrosis, e.g., in a subject having a fibrotic condition or disorder.

No. of Pages : 97 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020

(21) Application No.202017052446 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HIGH STRENGTH TITANIUM ALLOYS

(51) International classification	:C22C0014000000, C22F0001180000, C22C0038000000, C22C0038500000, H05K0001090000
(31) Priority Document No	:15/972319
(32) Priority Date	:07/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/024574 :28/03/2019
(87) International Publication No	:WO 2019/217006
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)GARCIA-AVILA, Matias
2)MANTIONE, John, V.
3)ARNOLD, Matthew, J.

(57) Abstract :
A non-limiting embodiment of a titanium alloy comprises, in weight percentages based on total alloy weight: 2,0 to 5,0 aluminum; 3.0 to 8.0 tin; 1,0 to 5,0 zirconium; 0 to a total of 16,0 of one or more elements selected from the group consisting of oxygen, vanadium, molybdenum, niobium, chromium, iron, copper, nitrogen, and carbon; titanium; and impurities. A non-limiting embodiment of the titanium alloy comprises an intentional addition of fin and zirconium in conjunction with certain other alloying additions such as aluminum, oxygen, vanadium, molybdenum, niobium, and iron, to stabilize the a phase and increase the volume fraction of the a phase without the risk of forming embrittling phases, which was observed to increase room temperature tensile strength while maintaining ductility.

No. of Pages : 22 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020
(21) Application No.202017052447 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A PROCESS TO RECYCLE WATER CONDENSATE FROM CO2 OFF GAS STREAM

(51) International classification	:C02F0001280000, C02F0001000000, G01N0030320000, B01J0020280000, C07C0007120000
(31) Priority Document No	:62/673034
(32) Priority Date	:17/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/053698 :06/05/2019
(87) International Publication No	:WO 2019/220258
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)IMRAN, Muhammad
2)NAIR, Sreejit
3)SHARMA, Deepak

(57) Abstract :
A method of processing off gas from a chemical plant, where the off gas includes carbon dioxide and water. The processing of the off gas involves separating the off gas into a gas phase and a liquid phase and using one or more ion-exchange resin bed(s) and one or more granular activated carbon bed(s) to separate unwanted organic materials from the liquid phase. Based on this separation, water can be recovered that has less than 10 wt. % of the unwanted organic compounds originally in the liquid phase of the off gas.

No. of Pages : 15 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020
(21) Application No.202017052448 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR THE REDUCTION OR TREATMENT OF INFLAMMATION

(51) International classification	:C07K0016240000, A61P0029000000, A61K0047420000, A61K0047100000, A61K0036906600
(31) Priority Document No	:62/687724
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/038055 :19/06/2019
(87) International Publication No	:WO 2019/246310
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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3)LEE, Chung-Wei
4)LUITHARDT, Harry
5)AOYAMA, Simon
6)MARUKIAN, Svetlana
7)DAOU, Nadine

(57) Abstract :
This disclosure provides compositions and methods for reducing or treating inflammation, e.g., in a subject having an inflammatory condition or disorder.

No. of Pages : 129 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020

(21) Application No.202017052486 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EMULSION FOR MODULATING SENSORY PROPERTIES IN FOODS AND BEVERAGES

(51) International classification	:A23L0002520000, A23D0007005000, A61K0008370000, A23L0002560000, A23L0027100000
(31) Priority Document No	:18200912.6
(32) Priority Date	:17/10/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/077930 :15/10/2019
(87) International Publication No	:WO 2020/078987
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)FIRMENICH SA
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(72)**Name of Inventor :**
1)PARKER, Alan
2)GELIN, Jean-Luc

(57) Abstract :
The present invention relates to the flavour industry. It concerns more particularly a food grade emulsion capable to modulate sensory properties in foods and beverages. The emulsion of the invention is notably characterised by the presence in its dispersed phase of at least one enzymatically modified lipid component. The emulsion of the present invention constitutes a stable and effective flavour delivery system and can thus be incorporated as such in a food composition or a beverage composition.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052631 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PSMA BINDING AGENTS AND USES THEREOF

(51) International classification	:A61K0045060000, A61K0039000000, C07K0016280000, C07K0016300000, A61K0039395000
(31) Priority Document No	:62/676099
(32) Priority Date	:24/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/054189 :21/05/2019
(87) International Publication No	:WO 2019/224718
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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3)FERNANDES CARDOSO, Rosa Maria
4)CHI, Ellen
5)CONNOR, Judith Ann
6)DINH, Thai Quang
7)DOMINGO, Derrick Lemon
8)JONES, John Michael
9)KANE, Colleen
10)MATTSON, Bethany Kay
11)MCDEVITT, Theresa Marie
12)MOONEY, Jill Marie
13)TAWADROS, Richard Stephen
14)ZHOU, Hong Mimi

(57) Abstract :
The present invention relates to antibodies specifically binding PSMA or PSMA and CD3, polynucleotides encoding the antibodies or fragments, and methods of making and using the foregoing.

No. of Pages : 223 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052636 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR THE REDUCTION OR TREATMENT OF INSULIN RESISTANCE AND METABOLIC CONDITIONS

(51) International classification	:A61K0009000000, A61K0047020000, A61K0045060000, A61K0031704000, A23C0009123000
(31) Priority Document No	:62/687727
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/038037 :19/06/2019
(87) International Publication No	:WO 2019/246299
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)HAMILL, Michael
2)AFEYAN, Raffi
3)LEE, Chung-Wei
4)LUITHARDT, Harry
5)COMB, William
6)DAOU, Nadine
7)MARUKIAN, Svetlana

(57) Abstract :
This disclosure provides compositions and methods for reducing or treating insulin resistance in a subject.

No. of Pages : 86 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052641 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR THE TREATMENT OF FAT INFILTRATION IN MUSCLE

(51) International classification	:A23L0033175000, A61K0031198000, A23L0033180000, A61K0038050000, A61P0021000000
(31) Priority Document No	:62/687737
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/037936 :19/06/2019
(87) International Publication No	:WO 2019/246225
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)CHAKRAVARTHY, Manu
2)COMB, William
3)HAMILL, Michael
4)TRAMONTIN, Tony

(57) Abstract :
This disclosure provides methods of using compositions comprising amino acid entities to reduce fat infiltration in muscle, particularly under conditions of muscle atrophy. The disclosure also provides methods for enhancing muscle function by reducing fat infiltration in the muscle comprising administering an effective amount of the compositions to a subject in need thereof.

No. of Pages : 40 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052642 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : THREE-COMPARTMENT BIPOLAR MEMBRANE ELECTRODIALYSIS OF SALTS OF AMINO ACIDS

(51) International classification	:B01D0061440000, C02F0001469000, C07C0227400000, B01D0061540000, C22B0003000000
(31) Priority Document No	:62/681205
(32) Priority Date	:06/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035749 :06/06/2019
(87) International Publication No	:WO 2019/236814
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CASANOVA, Eduardo, Aurelio
2)STRUBLE, Justin, Robert
3)XU, Jian

(57) Abstract :
This invention relates to an improved electrodialysis method for preparing an amino acid from a salt of the amino acid utilizing a three-compartment bipolar membrane electrodialysis process wherein an aqueous electrolyte comprising an exogenous acid is added to the acid compartment of a three-compartment bipolar membrane apparatus. The exogenous acid is different than the amino acid and typically has a pKa less than the pKa of the amino acid.

No. of Pages : 33 No. of Claims : 74

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052643 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR PRODUCING AMIDO-METHYLATED VINYL-AROMATIC BEAD POLYMERS

(51) International classification	:C08F0212080000, B01J0045000000, G01N0033543000, B33Y0010000000, C08J0009160000
(31) Priority Document No	:18177652.7
(32) Priority Date	:14/06/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/065115 :11/06/2019
(87) International Publication No	:WO 2019/238625
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KOOP, Bernd

(57) Abstract :
The invention relates to a method for producing amido-methylated vinyl-aromatic bead polymers.

No. of Pages : 15 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052644 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HERBICIDAL COMPOSITIONS

(51) International classification	:A61K0031415000, C08L0083040000, A01N0043800000, A01N0047400000, A01N0043760000
(31) Priority Document No	:62/680910
(32) Priority Date	:05/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035612 :05/06/2019
(87) International Publication No	:WO 2019/236723
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)HEMMINGHAUS, John
2)SENGUPTA, Ashoke K.

(57) Abstract :
The present invention relates to various pesticidal compositions including non-water-continuous herbicidal dispersion compositions and processes for preparing these compositions. The present invention further relates to herbicidal application mixtures including water continuous dispersion compositions, processes for preparing these application mixtures, and various methods of use. Further, the present invention relates to various herbicidal compositions having improved application properties.

No. of Pages : 95 No. of Claims : 61

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052656 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CAP AND CARTRIDGE ASSEMBLY

(51) International classification	:B65D0041060000, B65D0047200000, B65D0059060000, B65D0081320000, H01R0013520000
(31) Priority Document No	:62/675053
(32) Priority Date	:22/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/033458 :22/05/2019
(87) International Publication No	:WO 2019/226735
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)GIANSANTI, Brent, A.
2)PAPPALARDO, Matthew, E.

(57) Abstract :
A cap for sealing a cartridge includes a cap body (202), a plug (250), and a biasing member (262). The cap body includes a cap wall (202) and an annular wall (204) extending from the cap wall. The annular wall defines a channel within and includes a retention member having a barb (212), a stop (214) spaced apart from the barb, and a base (216) extending circumferentially about a portion of the annular wall from the barb to the stop. The barb, the stop, and the base define a retention channel (226). The plug is positioned within the channel of the cap body. The plug includes a plug wall (252) and a plug member (254a, 254b) extending from the plug wall. The biasing member is positioned within the channel of the cap body between the plug wall and the cap wall. The biasing member is configured to provide a biasing force to bias the cap wall away from the plug wall.

No. of Pages : 16 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052659 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HIGH ISOSTATIC STRENGTH HONEYCOMB STRUCTURES AND EXTRUSION DIES THEREFOR

(51) International classification	:B01D0046240000, F01N0003280000, F01N0003022000, B28B0003260000, B29C0048110000
(31) Priority Document No	:62/667365
(32) Priority Date	:04/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/030663 :03/05/2019
(87) International Publication No	:WO 2019/213569
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)BREW, Thomas William
2)JAIN, Priyank Paras
3)KHODOSEVICH, Konstantin Vladimirovich
4)LARSON, John M.

(57) Abstract :
A honeycomb structure (110) includes intersecting porous walls (106). Inlet channels (108i) and outlet channels (108o) are formed by the intersecting porous walls (106), wherein the inlet channels (108i) comprise inlet hydraulic diameters (HDi) and the outlet channels (108o) comprise outlet hydraulic diameters (HDo). The inlet channels (108i) comprise inlet corners (220i) with inlet corner radii (Ri) and the outlet channels (108o) comprise outlet corners (220o) with outlet corner radii (Ro). A centerpost (124) is defined by adjacent opposing inlet corners (220i) of two of the inlet channels (108i) and adjacent opposing outlet corners (220o) of two of the outlet channels (108o). A first diagonal length (Dl) is a shortest distance between the opposing outlet corners (220o) of the two outlet channels (108o) and a second diagonal length (D2) is a shortest distance between the opposing inlet corners (220i) of the two inlet channels (108i). The honeycomb structure (110) has certain aspect ratios D1:D2 depending on hydraulic diameter ratios HDi:HDo. Other honeycomb structures (110) and bodies (100) and extrusion dies (420) are disclosed.

No. of Pages : 31 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052792 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS COMPRISING PCSK9-BINDING MOLECULES AND METHODS OF USE

(51) International classification	:C07K0016400000, C07K0014780000, A61K0038390000, C12N0009640000, A61K0039000000
(31) Priority Document No	:62/672187
(32) Priority Date	:16/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032710 :16/05/2019
(87) International Publication No	:WO 2019/222529
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MITCHELL, Tracy, S.

(57) Abstract :
The present disclosure provides pharmaceutical compositions comprising fibronectin based scaffold domain proteins that bind, for example, proprotein convertase subtilisin kexin-9 (PCSK9).

No. of Pages : 39 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202017052815 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CONTAINER SIDE LOADER

(51) International classification	:B65F0003020000, B66F0009065000, B65G0067040000, B66C0013080000, B66F0009100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2019/122018 :29/11/2019
(87) International Publication No	:WO 2021/102923
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)MIAO, Linzhan

(57) Abstract :
A container side loader capable of being used on an electrified railway line freight station. The container side loader comprises a base mechanism (100), steering driving wheel assemblies (110), fixed combined wheel assemblies (120), a steering synchronization assembly (150), a power system (160), a combined gantry mechanism (200), a spreader mechanism (300), a spreader lifting mechanism (310), a spreader vertical rotating mechanism (320), a spreader horizontal adjusting mechanism (330), a middle gantry lifting mechanism (410), a combined gantry inclination mechanism (420), and a combined gantry translation mechanism (430). The side loader can directly perform container side loading and unloading on different electrified railway line freight stations, and also has multiple functions such as heavy-load moving carrying, overturning box pouring unloading, overturning box erecting loading, heavy-load stacking of two layers; moreover, the side loader has the comprehensive characteristics of being small in investment, wide in application, high in efficiency, low in cost, small in space, and having the safety and operability, and the like.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202017052817 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ASSEMBLED PLASTIC PALLET

(51) International classification	:B65D0019000000, B65D0019380000, B65D0019180000, E06B0005160000, G05B0019120000
(31) Priority Document No	:201810610004.X
(32) Priority Date	:13/06/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2018/111702 :24/10/2018
(87) International Publication No	:WO 2019/237629
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)ZHANG, Hong

(57) Abstract :
Provided is an assembled plastic pallet, comprising a main panel (1) and edge strips (3) fixed on both sides of the main panel; the main panel comprises two rib frames (11) and a plurality of strip-shaped pad feet (12) uniformly disposed between the two rib frames; the steps for assembling the plastic tray are as follows: first a first main-panel steel tube (2) and a second main-panel steel tube (8) are inserted into a first main-panel steel tube hole (13) and a second main-panel steel tube hole (14) on the rib frame, respectively; then the two edge strips are mounted on the two sides of the main panel by means of projections (32) and an insertion slot, and the projections and the insertion slot are fixed by means of the edge strip connection block; then the edge strip steel tubes are inserted into the side wall steel tube holes on the two edge strips; lastly, the side steel tube and the first main-panel steel tube are fixed by means of the steel tube connecting member and the steel tube blocking cap. The pallet has advantages such as low cost, simple installation, and quick replacement of the edge strips.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202017052865 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLASTICIZER COMPOSITION AND RESIN COMPOSITION COMPRISING SAME

(51) International classification	:C08K0005120000, C08K0005000000, C10M0105360000, C08K0005100000, C08J0009000000
(31) Priority Document No	:10-2018-0100356
(32) Priority Date	:27/08/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/010743 :23/08/2019
(87) International Publication No	:WO 2020/045901
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)KIM, Hyun Kyu
2)MOON, Jeong Ju
3)CHOI, Woo Hyuk
4)CHO, Yun Ki
5)KIM, Joo Ho
6)JEONG, Seok Ho

(57) Abstract :
The present invention relates to a plasticizer composition comprising: two or more terephthalates which are identical-carbon number types whereby the carbon numbers of alkyl groups bound to two ester groups are identical to each other; and one or more terephthalate which is a different-carbon number type whereby the carbon numbers of alkyl groups bound to two ester groups are different from each other, wherein the different-carbon number type comprises both a higher alkyl and a lower alkyl, the higher alkyl being selected from alkyl having a carbon number of at most 8, and the lower alkyl being selected from alkyl having a carbon number of at least 5. When applied to a resin, the plasticizer composition may improve effects such as viscosity stability, migration resistance and stress tolerance, and may enable plasticization efficiency and mechanical properties to be maintained at and improved by the same level or higher.

No. of Pages : 47 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202017052868 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EXPANDER FOR SOEC APPLICATIONS

(51) International classification	:C25B0015080000, C25B0001000000, C25B0001120000, C25B0001040000, C25B0015020000
(31) Priority Document No	:PA 2018 00385
(32) Priority Date	:12/07/2018
(33) Name of priority country	:Denmark
(86) International Application No Filing Date	:PCT/EP2019/068334 :09/07/2019
(87) International Publication No	:WO 2020/011748
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
In a method for generating various synthesis gases by electrolysis, comprising feeding steam and compressed air to the cathode and anode, respectively, of the electrolysis unit or of the first of a series of electrolysis units into the first of a series of electrolysis units, the electrolysis units are operated under an elevated gas pressure, and the oxygen-rich gas leaving the anode is subsequently expanded down to approximately ambient pressure using a gas expander. The electrolysis units are preferably solid oxide electrolysis cell (SOEC) stacks.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202017052869 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ACTIVE LAYER COMPOSITION OF CATHODE FOR ELECTROLYSIS, AND CATHODE DERIVED THEREFROM

(51) International classification	:C25B0011040000, H01M0004920000, H01M0004900000, H01M0004860000, C09D0179080000
(31) Priority Document No	:10-2018-0078915
(32) Priority Date	:06/07/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/008144 :03/07/2019
(87) International Publication No	:WO 2020/009473
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)EOM, Hee Jun
3)KIM, Myung Hun
4)LEE, Dong Chul
5)JUNG, Sang Yun
6)HWANG, Gyo Hyun
7)JUNG, Jong Wook
8)BANG, Yong Ju

(57) Abstract :
The present invention relates to an active layer composition of a cathode for brine electrolysis and a cathode for electrolysis formed of same, the active layer composition comprising: a metal precursor mixture comprising a ruthenium precursor, a platinum precursor, and a lanthanide metal precursor; and an organic solvent comprising an amine-based compound. The durability of the cathode for electrolysis is excellent, and the initial performance and activation performance are improved so as to inhibit an overvoltage and reduce a deviation thereof, and thus stability in electrode performance can be expected.

No. of Pages : 32 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020
(21) Application No.202017052870 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : REDUCTION ELECTRODE FOR ELECTROLYSIS AND MANUFACTURING METHOD THEREFOR

(51) International classification	:C25B0011040000, B05D0007140000, H01M0004139100, H01M0004620000, B01J0023460000
(31) Priority Document No	:10-2018-0078916
(32) Priority Date	:06/07/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/008151 :03/07/2019
(87) International Publication No	:WO 2020/009475
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)KIM, Yeon Yi
3)KIM, Myung Hun
4)LEE, Dong Chul
5)JUNG, Sang Yun
6)HWANG, Gyo Hyun
7)JUNG, Jong Wook
8)BANG, Yong Ju

(57) Abstract :
The present invention relates to a reduction electrode for electrolysis and a manufacturing method therefor, the reduction electrode comprising: a metal substrate; and an active layer disposed on at least one surface of the metal substrate, the active layer containing ruthenium oxide, platinum oxide, and cerium oxide, wherein when the active layer is equally divided into multiple pixels, the standard deviation of the composition of ruthenium among the multiple equally divided pixels is 0.4 or smaller, and wherein the N atoms in the active layer are present in 20-60 mol% relative to ruthenium atoms. The reduction electrode for electrolysis allows a reduction in overvoltage and an improvement in durability.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202017052895 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POST-COMBUSTION CO2 CAPTURE WITH HEAT RECOVERY AND INTEGRATION

(51) International classification	:B01D0053140000, F23J0015000000, B01D0053620000, B01D0003140000, F01K0013000000
(31) Priority Document No	:62/681363
(32) Priority Date	:06/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2019/050781 :05/06/2019
(87) International Publication No	:WO 2019/232626
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)CLERVEAUX, Ferrere

(57) Abstract :
CO2 capture processes and systems can be improved by recovering thermal energy from particular streams for reuse in the stripping stage. Thermal energy can be recovered from the overhead gas stream of a stripper operated under vacuum pressure conditions, and thermal energy can also be recovered from a flue gas. A heat transfer circuit can be implemented for recovering thermal energy by indirect heat transfer from the overhead gas stream, a flue gas stream, and/or other streams to a heat transfer fluid. The heat transfer circuit can include multiple heat recovery loops arranged in parallel and the heated fluid can be supplied through a reboiler of the stripper to heat the solution in the reboiler.

No. of Pages : 23 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2020

(21) Application No.202017053123 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR DYEING A PROTEIN SUBSTRATE

(51) International classification	:A61Q0005100000, D06P0001300000, D06P0003600000, H01L0031032000, D06P0003820000
(31) Priority Document No	:18192462.2
(32) Priority Date	:04/09/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/073394 :03/09/2019
(87) International Publication No	:WO 2020/048944
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)COLELL, Albert Llort

(57) Abstract :
The present invention relates to a method for treating at least one protein substrate comprising at least one dyeing step, wherein in the at least one dyeing step at least one dyeing composition comprising at least one sulfur dye is used. The present invention further relates to a hair colorant comprising at least one sulfur dye. It also relates to a protein substrate that has been treated with the method according to the invention or the hair colorant according to the invention. The present invention further relates to the use of a dyeing composition comprising at least one sulfur dye for dyeing at least one protein substrate.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2020

(21) Application No.202017053124 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : INFORMATION PROCESSING DEVICE AND METHOD, AND PROGRAM

(51) International classification	:G10L0019008000, H04N0005232000, H04S0007000000, G10L0019000000, A61B0034200000
(31) Priority Document No	:2018-127547
(32) Priority Date	:04/07/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/024441 :20/06/2019
(87) International Publication No	:WO 2020/008890
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)HATANAKA Mitsuyuki
2)CHINEN Toru
3)TSUJI Minoru
4)HONMA Hiroyuki
5)YAMAMOTO Yuki

(57) Abstract :
The present technology relates to an information processing device and method, and a program which make it possible to reduce the amount of coding. This information processing device is provided with: an acquisition unit which acquires spatial information relating to the position and size within a parent space of a child space included in the parent space, and intra-child space position information indicating the position within the child space of an object included in the child space; and a calculation unit which on the basis of the spatial information and the intra-child space position information, calculates intra-parent space position information indicating the position of the object within the parent space. The present technology is applicable to a signal processing device.

No. of Pages : 103 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2020

(21) Application No.202017053156 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ABSORBENT ARTICLE

(51) International classification	:A61F0013511000, F04D0029043000, A61F0013513000, C03C0003087000, B32B0027000000
(31) Priority Document No	:2018-102882
(32) Priority Date	:29/05/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/020887 :27/05/2019
(87) International Publication No	:WO 2019/230646
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)TOMITA, Mina
2)FUKUDA, Yuko

(57) Abstract :
Provided is an absorbent article including a recess/projection sheet (10) as a component and having a longitudinal direction and a width direction perpendicular to the longitudinal direction. The recess/projection sheet (10) has a plurality of recesses (3) and projections (4) on a skin contact surface to be brought into contact with the skin of a wearer. In the recess/projection sheet (10), the movable range of tops (40a) of the projections (4) in a certain direction is 30% or more with respect to the length (L2) of bottoms of the projections (4). The skin contact surface of the recess/projection sheet (10) has an average coefficient of friction MIU in the longitudinal direction (X) of 0.3 or less, and the difference in the coefficient of friction between when the recess/projection sheet (10) is moved forward in the longitudinal direction (X) and when the recess/projection sheet (10) is moved backward is less than 0.1. The recess/projection sheet (10) has a compression workload of 2.0 mN·cm/cm2 or more and a compression recovery rate of 40% or more.

No. of Pages : 59 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2020

(21) Application No.202017053158 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHODS AND REAGENTS FOR RESOLVING NUCLEIC ACID MIXTURES AND MIXED CELL POPULATIONS AND ASSOCIATED APPLICATIONS

(51) International classification	:C12N0015100000, C12Q0001688600, C12Q0001681300, A61K0045060000, G01N0033580000
(31) Priority Document No	:62/672573
(32) Priority Date	:16/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032755 :16/05/2019
(87) International Publication No	:WO 2019/222560
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)SALK, Jesse, J.
2)VALENTINE, Charles, Clinton, III
3)DANAHER, Patrick
4)LO, Fang, Yin

(57) Abstract :
Methods and associated reagents for assessing and resolving nucleic acid mixtures and/or mixed cell populations are disclosed herein. Some embodiments of the technology are directed to utilizing Duplex Sequencing for assessing and resolving nucleic acid mixtures (e.g., multichimeric mixtures, mixtures of nucleic acids from more than one source, etc.) in a sample and associated applications. Other embodiments are directed to detecting and quantifying a donor source of nucleic acid from a mixture.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2020

(21) Application No.202017053181 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR DYNAMIC CHANNEL BONDING

(51) International classification	:H04W0048180000, H04W0036220000, H04L0012260000, H04L0012703000, H04W0036140000
(31) Priority Document No	:62/678810
(32) Priority Date	:31/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035082 :31/05/2019
(87) International Publication No	:WO 2019/232497
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)CHOW, William, Weiyeh
2)TSUIE, Mark, Lea
3)TRUONG, Brian, Alex

(57) Abstract :
A method for managing network traffic on a portable communication device including a processor, a memory, and a plurality of network interfaces configured to connect to a plurality of networks includes: processing network traffic of an application running on the processor via a first network of the plurality of networks, the first network being specified as a primary network by an operating system running on the processor; monitoring a plurality of network status information associated with the first network; detecting a problem of the first network when one or more parameters of the received network status information is outside of one or more threshold values; in response to detecting the problem in the first network, selecting a second network of the plurality of networks as the primary network; and processing the network traffic via the second network as the updated primary network.

No. of Pages : 35 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2020

(21) Application No.202017053264 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM FREQUENCY DETECTOR

(51) International classification	:G01R0023020000, G05F0001660000, H02J0003240000, G01R0019250000, H02J0003000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2020/003524 :30/01/2020
(87) International Publication No	:WO 2021/152789
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)MITSUGI, Yasuaki
2)SHIGEMASA, Takashi

(57) Abstract :
An embodiment of this invention provides a system frequency detector comprising a frequency computation unit comprising: an orthogonal coordinate signal generation unit that transforms the three-phase voltage signal of the three-phase AC power of a power system into a voltage signal of two orthogonal phases, transforms the two-phase voltage signal into a rotating-coordinate-system voltage signal, calculates the moving average of the rotating-coordinate-system voltage signal, subjects the rotating-coordinate-system voltage signal resulting from the moving averaging to an inverse transformation, and thereby generates a voltage signal of two orthogonal phases from the three-phase voltage signal; an angular frequency computation unit that computes the angular frequency of the power system on the basis of the two-phase voltage signal; and a computation device that computes the system frequency of the power system from the angular frequency. The frequency computation unit additionally comprises a rate limiter that is provided in series with the computation device and limits system frequency variation greater than or equal to a prescribed rate of change. As a result, the system frequency detector is capable of quickly following system frequency variation and suppressing erroneous system frequency detection even when there is a system disturbance.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020
(21) Application No.202017053342 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EGG-LAYING MEDIUM FOR INSECTS, COMPRISING A TEXTURING SUBSTRATE

(51) International classification	:A01K0067033000, A01K0031160000, A23K0050750000, C08F0020120000, C04B0035106000
(31) Priority Document No	:1854799
(32) Priority Date	:01/06/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2019/051284 :31/05/2019
(87) International Publication No	:WO 2019/229396
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MATHIEU, Marianne
2)ESCALANTE NOGUERA, Pedro
3)BERRO, Fabrice
4)DU JONCHAY, Thibault
5)BEREZINA, Nathalie

(57) Abstract :
The invention relates to the breeding of insects and more particularly to the separation of insect eggs from other constituents of an egg-laying medium. It relates to an egg-laying medium for insects, comprising at least 75% by weight of a non-consumable texturing substrate in the form of particles, at least 85% by weight of said particles having a size of less than 0.5 mm, and at least 5% by weight of a nutrient substrate, wherein the weight percentages are given in relation to the total weight of the insect egg-laying medium. The invention also relates to a laying tray and uses thereof, particularly in a method for collecting insect eggs.

No. of Pages : 18 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202017053346 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHODS FOR FINGERPRINTING OF BIOLOGICAL SAMPLES

(51) International classification	:C12Q0001682700, C40B0030000000, C12Q0001688600, C12Q0001689500, C12Q0001687600
(31) Priority Document No	:62/681642
(32) Priority Date	:06/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035871 :06/06/2019
(87) International Publication No	:WO 2019/236906
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)SRIVAS, Rohith Kannappan
3)WILSON, Timothy Joseph
4)PETERMAN, Neil
5)LAMBERT, Nicole Jacinda
6)TEZCAN, Haluk

(57) Abstract :
The present disclosure provides methods for fingerprinting of biological samples of a subject. In an aspect, the present disclosure provides a method for identifying a sample mismatch, comprising: obtaining a first biological sample comprising a first plurality of nucleic acid molecules from a subject; processing the first plurality to generate a first sample fingerprint comprising a quantitative measure of the first plurality at each of a plurality of genetic loci, wherein the plurality of genetic loci comprises autosomal single nucleotide polymorphisms (SNPs); obtaining a second biological sample comprising a second plurality of nucleic acid molecules from the subject; processing the second plurality to generate a second sample fingerprint comprising a quantitative measure of the second plurality at each of the plurality of genetic loci; determining a difference between the first sample fingerprint and the second sample fingerprint; and identifying the sample mismatch when the difference satisfies a predetermined criterion.

No. of Pages : 35 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202017053347 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CROSSLINKED PULPS, CELLULOSE ETHER PRODUCTS MADE THEREFROM; AND RELATED METHODS OF MAKING PULPS AND CELLULOSE ETHER PRODUCTS

(51) International classification	:C08L0001260000, D21H0011200000, C08B0011000000, C08L0033020000, C08L0001280000
(31) Priority Document No	:62/712844
(32) Priority Date	:31/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/044344 :31/07/2019
(87) International Publication No	:WO 2020/028493
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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4)DODD, Andrew
5)ANDERSON-GABER, Amy
6)LINDENAUER, Kris
7)WEST, Hugh
8)MILLER, Charles

(57) Abstract :
Pulps, cellulose ether products, and methods of making pulps are described.

No. of Pages : 54 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202017053349 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : APPARATUS AND SYSTEM FOR INCREASING OBJECT VISIBILITY

(51) International classification	:A61B0008080000, G01S0015890000, A61B0090000000, A61B0010020000, G01S0007520000
(31) Priority Document No	:62/687398
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/000796 :19/06/2019
(87) International Publication No	:WO 2019/243896
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The invention provides an apparatus, system, and method employing a marker based on a membrane that is reflective of ultrasonic waves. The technique allows controlling the resonance frequency of the membrane, amplitude, non-linearity and reverberation period by modifying material properties and geometrical properties (membrane area and thickness) such that the marker appears prominently on ultrasound imaging. The marker can be tailored for use either in color Doppler mode or harmonics mode.

No. of Pages : 17 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202017053352 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYNTHESIS OF COELENTERAZINE

(51) International classification	:C07D0487040000, A61F0013490000, B32B0027360000, C12Q0001660000, C07B0051000000
(31) Priority Document No	:62/692485
(32) Priority Date	:29/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/040016 :28/06/2019
(87) International Publication No	:WO 2020/006534
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)KUMAR, Anil

(57) Abstract :
Disclosed herein are synthesis methods for coelenterazine. Also disclosed are articles including the coelenterazine and coelenterazine derivatives. Representative absorbent articles include disposable diapers and adult incontinence products.

No. of Pages : 60 No. of Claims : 84

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202017053385 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EGG-LAYING MEDIUM FOR INSECTS, COMPRISING A SOLID SUBSTRATE

(51) International classification	:A01K0067033000, A23K0050750000, A01K0031160000, D01F0006620000, C07F0005060000
(31) Priority Document No	:1854800
(32) Priority Date	:01/06/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2019/051285 :31/05/2019
(87) International Publication No	:WO 2019/229397
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)BERRO, Fabrice
4)DU JONCHAY, Thibault
5)BEREZINA, Nathalie

(57) Abstract :
The invention relates to the breeding of insects and more particularly to the separation of insect eggs from other constituents of an egg-laying medium. It relates to an egg-laying medium for insects, comprising at least 80% by weight of a solid substrate in the form of particles, at least 85% by weight of said particles having a size of less than 0.5 mm, wherein the weight percentage is given in relation to the total weight of the insect egg-laying medium. The invention also relates to a laying tray and uses thereof, particularly in a method for collecting insect eggs.

No. of Pages : 15 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202017053493 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PEEL-AWAY SHEATH ASSEMBLY

(51) International classification	:A61M0025060000, A61M0025000000, A61M0001120000, A61M0039020000, A61M0029000000
(31) Priority Document No	:62/672212
(32) Priority Date	:16/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032736 :16/05/2019
(87) International Publication No	:WO 2019/222546
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)FANTUZZI, Glen
3)CALABRESE, Drew
4)LIU, Clifford
5)MODLISH, John

(57) Abstract :
Systems and methods for a multi-layered peel-away sheath assembly for insertion of a blood pump including a sheath hub and a sheath body having a proximal end that is connected to the sheath hub, and a distal end. The sheath body comprises multiple layers including a reinforcing layer. The reinforcing layer improves flexibility and kink resistance of the assembly The reinforcing layer can comprise LCP, PEBAX, stainless steel, Nitinol, or Kevlar. The reinforcing layer may be a laser-cut hypotube or a braided or coiled filament. The first layer material and the third layer material are thermoplastics, including PEBAX or TPU. The reinforcing layer has at least one discontinuity, which is aligned with peel-away lines in the sheath body to allow an operator to peel-away the assembly. The peel-away lines are formed of inner, outer notches, or both. The sheath hub also includes a discontinuity to allow the sheath hub to peel-away.

No. of Pages : 42 No. of Claims : 82

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053533 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IMAGE PROCESSING DEVICE AND METHOD

(51) International classification	:H04N0019597000, H04N0019800000, G06T0015000000, H04N0019117000, G06T0003000000
(31) Priority Document No	:2018-131295
(32) Priority Date	:11/07/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/025557 :27/06/2019
(87) International Publication No	:WO 2020/012967
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KATO Tsuyoshi
3)KUMA Satoru
4)NAKAGAMI Ohji

(57) Abstract :
The present disclosure relates to an image processing device and method allowing suppression of an increase in processing time for filter processing executed on point cloud data. Filter processing is performed using a representative value for point cloud data for each of local areas into which a three dimensional space is divided, a two-dimensional plane image on which the point cloud data subjected to the filter processing is projected is encoded, and a bit stream is generated. The present disclosure is applicable to, for example, an information processing device, an image processing device, electronic equipment, an information processing method, a program, or the like.

No. of Pages : 76 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053534 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHODS OF MANUFACTURING AMINO ACID COMPOSITIONS

(51) International classification	:B01D0039200000, C04B0041000000, A23K0050400000, A45D0007000000, A45D0007060000
(31) Priority Document No	:62/687725
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/037902 :19/06/2019
(87) International Publication No	:WO 2019/246201
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)HANLON, Thomas
2)YAMAMOTO, Ralph
3)KWOK, Denise, K.
4)ROTHENBERG, Daniel
5)WOOD, Andrew, M.

(57) Abstract :
This disclosure provides methods of manufacturing large-scale blended preparations comprising one or more amino acids wherein the preparations have certain properties.

No. of Pages : 84 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053536 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR ARRANGING A PLURALITY OF SPACECRAFT UNDER THE COVER OF A LAUNCHER WITHOUT A STRUCTURAL DISTRIBUTOR AND ASSEMBLY RESULTING FROM SUCH A METHOD

(51) International classification	:B64G0001640000, B64G0001000000, B64G0001500000, B64G0001280000, B64G0001400000
(31) Priority Document No	:1800608
(32) Priority Date	:14/06/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2019/065295 :12/06/2019
(87) International Publication No	:WO 2019/238727
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)THALES
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(72)**Name of Inventor :**
1)TEXIER, Emmanuel
2)DURAND, Yves
3)ANDY, Jérôme
4)RIBEYRON, Pascal
5)LABARTHE, Julien

(57) Abstract :
Assembly comprising: - at least a first set (2) of a plurality of spacecraft (20, 21, 22) which are intended to be attached to a launcher (23) in a launch phase, characterised in that the spacecraft are arranged around a central axis (Z) in the same transverse plane perpendicular to said central axis, said spacecraft having edges along a longitudinal axis and further being arranged so that a spacecraft is connected to an adjacent spacecraft of the set via an edge by at least one attachment device (B) which is located on said edge so as to ensure that said craft are mechanically held in place relative to each other, - a satellite launching adapter (24) to which said spacecraft are attached along a transverse plane.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053565 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ACTIVATABLE INTERLEUKIN-2 POLYPEPTIDES AND METHODS OF USE THEREOF

(51) International classification	:C07K0014550000, A61K0038000000, C07K0016180000, C07K0016280000, A61K0047680000
(31) Priority Document No	:62/671225
(32) Priority Date	:14/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032321 :14/05/2019
(87) International Publication No	:WO 2019/222295
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)HICKLIN, Daniel
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4)EVNIN, Luke
5)BAEUERLE, Patrick
6)SALMERON GARCIA, Jose Andres
7)BRODKIN, Heather
8)LIN, Shuoyen Jack
9)WESCHE, Holger
10)SEIDEL-DUGAN, Cynthia

(57) Abstract :
The disclosure features fusion proteins that are conditionally active variants of IL-2. In one aspect, the full-length polypeptides of the invention have reduced or minimal cytokine-receptor activating activity even though they contain a functional cytokine polypeptide. Upon activation, e.g., by cleavage of a linker that joins a blocking moiety, e.g. a steric blocking polypeptide, in sequence to the active cytokine, the cytokine can bind its receptor and effect signaling.

No. of Pages : 90 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053566 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTI-IL-22 ANTIBODIES, ANTIBODY FRAGMENTS, THEIR IMMUNOCONJUGATES AND USES THEREOF

(51) International classification	:A61K0039000000, A61K0039395000, C07K0016280000, C07K0014660000, C07K0016240000
(31) Priority Document No	:62/680698
(32) Priority Date	:05/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035395 :04/06/2019
(87) International Publication No	:WO 2019/236585
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SHORT, Jay M.
2)FREY, Gerhard
3)CHANG, Hwai Wen
4)BOYLE, William

(57) Abstract :
An anti-IL-22 antibody or antibody fragment that binds to both human IL-22 and a mammalian IL-22 as well as modified anti-IL-22 antibodies and antibody fragments. Pharmaceutical compositions and kits comprising the antibody or antibody fragment are also provided. Also provided are methods for treatment of various IL-22 mediated conditions and diseases.

No. of Pages : 76 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053568 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POTENTIAL EQUALISATION SYSTEM FOR A MODULAR MULTILEVEL CONVERTER

(51) International classification	:H02M0007483000, H02M0003335000, H02M0001440000, H01M0010643000, B81B0003000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/EP2018/066230 :19/06/2018
(87) International Publication No	:WO 2019/242843
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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6)GRIESSL, Johannes
7)HOLWEG, Johann
8)HUBER, Adrian
9)KAPELKE, Martin
10)RUDEK, Michael
11)SCHRAMMEL, Christian
12)STOLTZE, Torsten
13)WAHLE, Marcus
14)WEBER, Johannes

(57) Abstract :
The invention relates to a potential equalisation system for a modular multi-level converter (1) having a plurality of converter modules (3) which each have a direct current source (13). The potential equalisation system comprises pole contacts (15), which are each electrically connected to one pole of a direct current source (13), and at least one electrically conductive contacting element (17), which can be moved between a first end position in which said contacting element is electrically isolated from the converter modules (3) and a second end position in which said contacting element contacts pole contacts (15) of different direct current sources (13) and can be placed onto an earth potential.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053573 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND SYSTEM FOR VERIFYING THE CORRECT DEPLOYMENT OF AN AIRBAG DEVICE

(51) International classification	:G01M0017007000, B60R0021231000, B60R0021233800, B60R0021237000, G01M0003240000
(31) Priority Document No	:102018000008074
(32) Priority Date	:13/08/2018
(33) Name of priority country	:Italy
(86) International Application No Filing Date	:PCT/IB2019/056836 :12/08/2019
(87) International Publication No	:WO 2020/035772
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)CASINI, Davide
2)VINCI, Nikolas

(57) Abstract :
A computer-implemented method for checking the correct deployment of an airbag device (A) is described, comprising, in a vehicle or test vehicle model, the optionally arranging a dummy or model (U) of a vehicle occupant in the vicinity of the airbag device (A), triggering the deployment of the air chamber (C) of the airbag device (A), taking at least one image of a scene including the aforesaid inner air chamber (C) at a plurality of discrete times following the triggering of its deployment and the verification of the volume of inflation and/or deployment of the air chamber (C) at the plurality of discrete times following the triggering of its deployment on the basis of the aforesaid image.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202017053582 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A CONSUMABLE GEL DELIVERY METHOD FOR HEALTH INGREDIENTS

(51) International classification	:A23L0029256000, A61P0003080000, A61K0031700400, A61K0047360000, A23L0029200000
(31) Priority Document No	:2018901590
(32) Priority Date	:09/05/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/IB2019/053787 :08/05/2019
(87) International Publication No	:WO 2019/215641
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
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2)MORTON, David Alexander Vodden
3)SZEWACH, Simon Hayden
4)WYNNE, Paul Michael

(57) Abstract :
This invention relates to a dosage form comprising one or more health ingredients other than a 50g or 75g dose of glucose, which is a drinkable gel. The health ingredients are retained in a delivery system comprising: water, a gelling agent, which is a carbohydrate non-ionic gelled polymer gelling agent and/ or a polyvalent ion gelled polymer gelling agent, and a pH adjuster. The components are present in amounts which ensure hydration of, and the formation of a firm gel with a bloom grade of between 100 and 250, which can be sheared to make it more fluid when ingested, such that it is a drinkable gel. The invention further comprises a method comprising ingesting the oral dosage form by squeezing and/ or sucking the drinkable gel from a package comprising a pouch (1) with a spout (5) or with a straw by squeezing and/ or sucking.

No. of Pages : 30 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053672 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HARVESTER ACCESSORY

(51) International classification	:A01D0065000000, A01D0063020000, A01D0045100000, A01D0057120000, B65G0047260000
(31) Priority Document No	:2018901966
(32) Priority Date	:01/06/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/AU2019/000070 :03/06/2019
(87) International Publication No	:WO 2019/227125
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LAWN, Steven

(57) Abstract :
A cane pickup and separation device (1) mountable to a vehicle, the front of which is depicted in Fig. 1 and identified by reference No. 2. The device (1) includes at least two sorting augers (100) with auger tips (102), a frame (200), a separation wall (230), and a pickup spiral (300). The sorting augers (100) each have auger tips (102) that are adapted to be positioned slightly above ground level 4. The sorting augers (100) diverge relative to one another and are inclined upwardly and rearwardly at similar inclined angles Ø to the horizontal to define a diverging gap (104). Behind the augers (100) is the upwardly and rearwardly inclined separation wall (230). The separation wall 230 is rearward of the pair of augers (100) and extends substantially across the diverging gap (104). The frame (200) is mountable to the vehicle (2) and is adapted to support the pair of sorting augers (100) and the separation wall (230). The device (1) further includes at least one pickup spiral (300) set at a shallower angle p inclination to the horizontal than the steeply inclined angle Ø.

No. of Pages : 16 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053701 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTI-CD3 ANTIBODIES AND USES THEREOF

(51) International classification	:C07K0016280000, A61K0039000000, C07K0016300000, A61K0039395000, A61K0047680000
(31) Priority Document No	:62/676081
(32) Priority Date	:24/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/054188 :21/05/2019
(87) International Publication No	:WO 2019/224717
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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3)HEIDRICH, Bradley
4)HUANG, Chichi
5)KANE, Colleen
6)MCDAID, Ronan
7)NEMETH-SEAY, Jennifer

(57) Abstract :
The present invention relates to antibodies that specifically bind CD3. The present invention relates to antibodies that specifically bind PSMA. The present invention relates to antibodies that specifically bind CD3 and PSMA. The present invention relates to antibodies that specifically bind IL1RAP. The present invention relates to antibodies that specifically bind CD33. The present invention relates to antibodies that specifically bind CD3 and IL1RAP. The present invention relates to antibodies that specifically bind CD3 and CD33. The present invention relates to antibodies that specifically bind TMEFF2. The present invention relates to antibodies that specifically bind CD3 and TMEFF2. The present invention relates to fragments of the antibodies, polynucleotides encoding the antibodies or fragments thereof, and methods of making and using the same.

No. of Pages : 239 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053703 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ACTIVATABLE CYTOKINE POLYPEPTIDES AND METHODS OF USE THEREOF

(51) International classification	:C07K0014550000, C07K0016180000, A61K0038000000, C07K0016280000, C07K0014540000
(31) Priority Document No	:62/671225
(32) Priority Date	:14/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032320 :14/05/2019
(87) International Publication No	:WO 2019/222294
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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6)SALMERON GARCIA, Jose Andres
7)BRODKIN, Heather
8)LIN, Shuoyen Jack
9)WESCHE, Holger
10)SEIDEL-DUGAN, Cynthia

(57) Abstract :
The disclosure features fusion proteins that are conditionally active variants of a cytokine of interest. In one aspect, the full-length polypeptides of the invention have reduced or minimal cytokine-receptor activating activity even though they contain a functional cytokine polypeptide. Upon activation, e.g., by cleavage of a linker that joins a blocking moiety, e.g. a steric blocking polypeptide, in sequence to the active cytokine, the cytokine can bind its receptor and effect signaling. Typically, the fusion proteins further comprise an in vivo half-life extension element, which may be cleaved from the cytokine in the tumor microenvironment.

No. of Pages : 132 No. of Claims : 69

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053713 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PROCESS FOR FORMATION OF EMULSION CONTAINING LIQUID CRYSTAL STRUCTURE

(51) International classification	:A61K0008550000, A61K0008020000, A61K0009127000, A61K0008340000, A61K0009000000
(31) Priority Document No	:62/688714
(32) Priority Date	:22/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/055215 :20/06/2019
(87) International Publication No	:WO 2019/244097
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)PERNA, Christine

(57) Abstract :
The use of specified homogenizer configuration, i.e., stator and rotor and shear energy density, to form a liquid crystal structure between the negatively charged phospholipid and/or phospholipid derivative and fatty alcohol is disclosed.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053715 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NON-LINEAR MEDIA SEGMENT CAPTURE AND EDIT PLATFORM

(51) International classification	:G10H0001360000, G11B0027020000, H04N0021440200, H04N0021414000, H04N0021466000
(31) Priority Document No	:62/674460
(32) Priority Date	:21/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/033368 :21/05/2019
(87) International Publication No	:WO 2019/226681
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)STEINWEDEL, David
2)SLOBODIEN, Andrea
3)SMITH, Jeffrey
4)COOK, Perry R.

(57) Abstract :
User interface techniques provide user vocalists with mechanisms for forward and backward traversal of audiovisual content, including pitch cues, waveform- or envelope-type performance timelines, lyrics and/or other temporally-synchronized content at record-time, 5 during edits, and/or in playback. Recapture of selected performance portions, coordination of group parts, and overdubbing may all be facilitated. Direct scrolling to arbitrary points in the performance timeline, lyrics, pitch cues and other temporally-synchronized content allows user to conveniently move through a capture or audiovisual edit session. In some cases, a user vocalist may be guided through the performance timeline, lyrics, pitch cues 10 and other temporally-synchronized content in correspondence with group part information such as in a guided short-form capture for a duet. A scrubber allows user vocalists to conveniently move forward and backward through the temporally-synchronized content.

No. of Pages : 25 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053716 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DISUBSTITUTED 5(3)-PYRAZOLE CARBOXYLATES AND A PROCESS FOR THEIR PREPARATION FROM ENOLATES AND FLUOROALKYLAMINOREAGENTS (FAR) REAGENTS

(51) International classification	:C07D0231140000, C07D0401120000, C07D0403040000, C07D0263580000, A61K0031454000
(31) Priority Document No	:18178287.1
(32) Priority Date	:18/06/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/065644 :14/06/2019
(87) International Publication No	:WO 2019/243179
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LISHCHYNSKYI, Anton
3)NEEFF, Arnd
4)ETZEL, Winfried

(57) Abstract :
The present invention relates to disubstituted 5(3)-pyrazole carboxylates of the formula (la) or (lb) and a process for their preparation wherein R1, R2, R3, R4 and n are defined as above.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053720 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SURFACE PROFILE DETECTION DEVICE FOR BLAST FURNACE CHARGE AND OPERATION METHOD

(51) International classification	:G01S0007030000, C21B0007240000, G01B0005200000, C21B0005000000, C21B0007200000
(31) Priority Document No	:2019-102613
(32) Priority Date	:31/05/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/012799 :23/03/2020
(87) International Publication No	:WO 2020/241008
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KAYANO Hayae

(57) Abstract :
Provided is a surface profile detection device for blast furnace charge that has a simple configuration but still detects the turning of a shooter and the accumulation of charge to make it possible to achieve operations that approach a theoretical accumulation profile. A surface profile detection device for blast furnace charge that comprises: a rotating plate that is arranged directly above an opening part of a blast furnace and rotates around the center of an opening of the opening part, a rotation means that rotates rotating plate, and a transmission/reception means that linearly transmits and receives detection waves such as microwaves or millimeter waves along the radial direction of the rotating plate. Transmission/reception is performed in a direction that is orthogonal to the rotation direction of the rotating plate while the rotating plate is rotated in synchronization with the turning of a shooter so as not to obstruct the transmission of the detection waves.

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053723 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD OF SELECTIVELY TREATING A BOTTOM HOLE REGION OF A FORMATION

(51) International classification	:C09K0008720000, E21B0043160000, B82Y0030000000, C09K0008502000, C09K0008920000
(31) Priority Document No	:2018122128
(32) Priority Date	:18/06/2018
(33) Name of priority country	:Russia
(86) International Application No Filing Date	:PCT/RU2019/050008 :28/01/2019
(87) International Publication No	:WO 2019/245410
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)LIMITED LIABILITY COMPANYVI-ENERGY"
Address of Applicant :Innovation centerSkolkovo" office 34, ul. Nobelya, 5 Moscow, 121205 Russia
2)NISSAN CHEMICAL CORPORATION
(72)**Name of Inventor :**
1)SERGEEV, Vitaly Vyacheslavovich

(57) Abstract :
Three or more steps are carried out in treating a bottom hole region of a formation with an estimated frequency for peforming the steps, wherein the second and each successive step is carried out when the productivity factor and/or the daily crude oil flow rate of a well has decreased by 25% or more over the preceding 6 months of well operation. Moreover, in the first and second steps, the bottom hole region of the formation is treated successively with a highly stable emulsion system containing silicon dioxide nanoparticles, an acid composition, and an aqueous solution of potassium chloride or calcium chloride. In the third and successive steps, the bottom hole region of the formation is treated successively with a highly stable emulsion system containing silicon dioxide nanoparticles, a composition of surface-active substances and alcohols, and an aqueous solution of potassium chloride or calcium chloride. The technical result of the claimed invention is to raise the thermal stability of the emulsion system, increase the rate of development of an oil and gas bearing site, increase the duration of a positive effect and enhance oil production.

No. of Pages : 73 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053724 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ACTIVATABLE INTERLEUKIN 12 POLYPEPTIDES AND METHODS OF USE THEREOF

(51) International classification	:C07K0014550000, A61K0038000000, C07K0016280000, C07K0016180000, A61K0047680000
(31) Priority Document No	:62/671225
(32) Priority Date	:14/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032322 :14/05/2019
(87) International Publication No	:WO 2019/222296
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)WINSTON, William
2)HICKLIN, Daniel
3)BHASKAR, Vinay
4)EVNIN, Luke
5)BAEUERLE, Patrick
6)SALMERON GARCIA, Jose Andres
7)BRODKIN, Heather
8)WESCHE, Holger
9)LIN, Shuoyen Jack
10)SEIDEL-DUGAN, Cynthia

(57) Abstract :
The disclosure features fusion proteins that are conditionally active variants of a cytokine of interest. In one aspect, the full-length polypeptides of the invention have reduced or minimal cytokine-receptor activating activity even though they contain a functional cytokine polypeptide. Upon activation, e.g., by cleavage of a linker that joins a blocking moiety, e.g. a steric blocking polypeptide, in sequence to the active cytokine, the cytokine can bind its receptor and effect signaling.

No. of Pages : 70 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053726 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS FOR THERAPY AND HEALTH CONTAINING AMINO ACIDS WITH BITTER TASTE

(51) International classification	:A61K0009000000, A61K0047260000, A61K0009140000, A23L0033175000, A61K0008310000
(31) Priority Document No	:62/687715
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/037977 :19/06/2019
(87) International Publication No	:WO 2019/246256
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)AXCELLA HEALTH INC.
Address of Applicant :840 Memorial Drive, 3rd Floor Cambridge, MA 02139 U.S.A.
(72)**Name of Inventor :**
1)HANLON, Thomas
2)WOOD, Andrew, M.

(57) Abstract :
This disclosure provides a dry powder formulation of free amino acids with an acceptable and even good taste profile.

No. of Pages : 38 No. of Claims : 53

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202017053769 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AGROCHEMICAL COMPOSITION COMPRISING A PYRIMIDYLOXYBENZOATE IN A SYNERGISTIC COMBINATION WITH SULFONYLUREAS

(51) International classification	:A01N0025320000, A01N0043540000, A01N0037340000, A01N0037460000, A01N0047360000
(31) Priority Document No	:201811023254
(32) Priority Date	:21/06/2018
(33) Name of priority country	:India
(86) International Application No Filing Date	:PCT/IB2019/055195 :20/06/2019
(87) International Publication No	:WO 2019/244088
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)ALAMSHAH, Abid Ali
2)DUTTA, Ashim Kumar
3)VENKATESHA, Hagalavadi M
4)GADE, Vishwanath
5)AUTKAR, Santosh Shridhar
6)BHARAMBE, Shailendra Mitharam

(57) Abstract :
The present invention provides a synergistic herbicidal combination and its composition comprising of bispyribac sodium, metsulfuron methyl and chlorimuron ethyl, and method of preparation, and use thereof as herbicides for the control of weeds in agricultural crops, in particular the weed flora in rice as well as protecting crops from herbicidal injury caused by any of the individual components.

No. of Pages : 32 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2020

(21) Application No.202017053933 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DISUBSTITUTED 3-PYRAZOLE CARBOXYLATES AND A PROCESS FOR THEIR PREPARATION VIA ACYLATION OF ENOLATES

(51) International classification	:C07D0231140000, C07D0401120000, C07D0403040000, C07D0263580000, A61K0031454000
(31) Priority Document No	:18178284.8
(32) Priority Date	:18/06/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/065642 :14/06/2019
(87) International Publication No	:WO 2019/243178
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)PAZENOK, Sergii
2)LISHCHYNSKI, Anton
3)HAHN, Julia, Johanna
4)MEMMEL, Frank
5)FORD, Mark, James

(57) Abstract :
The present invention relates to disubstituted 3-pyrazole carboxylates of the formula (I) and a process for their preparation (I) wherein R1, R2, R3, R4 and n are defined as above.

No. of Pages : 26 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2020

(21) Application No.202017053938 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AC-DC CONVERTER

(51) International classification	:H02M0007217000, H05B0045500000, H02M0003070000, H02M0001000000, H02M0001420000
(31) Priority Document No	:1800611
(32) Priority Date	:14/06/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2019/065250 :11/06/2019
(87) International Publication No	:WO 2019/238707
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)THOMAS, Phlippe, Claude

(57) Abstract :
The invention relates to an AC-DC chopping converter for supplying a direct output voltage Vout between a first output terminal (B1) and a second output terminal (B2), said converter comprising at least one conversion chain for converting an alternating input voltage applied between an input terminal (E) and a neutral point (N), the conversion chain comprising: a first output capacitor (C1) comprising a terminal connected to the first output terminal (B1) and another terminal connected to a second terminal of the input switch (S); a second output capacitor (C2) having the same capacity as the first output capacitor (C1) and a higher capacity than that of the connecting capacitor (C), the second output capacitor (C2) comprising a terminal connected to the second output terminal (B2) and another terminal connected to the second terminal of the input switch (S).

No. of Pages : 23 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2020
(21) Application No.202017053939 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : GRAIN-ORIENTED ELECTRICAL STEEL SHEET WITH EXCELLENT MAGNETIC CHARACTERISTICS

(51) International classification	:C21D0008120000, C22C0038000000, C22C0038600000, C22C0038020000, C22C0038040000
(31) Priority Document No	:2018-118019
(32) Priority Date	:21/06/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/024818 :21/06/2019
(87) International Publication No	:WO 2019/245044
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KUMANO, Tomoji
2)YANO, Shinya
3)OKADA, Shingo
4)OGURI, Akio
5)MORIMOTO, Shota

(57) Abstract :
Provided is a grain-oriented electrical steel sheet, the iron loss characteristics of which have been significantly improved without causing a deterioration in magnetic flux density. The grain-oriented electrical steel sheet: comprises 2.5-3.5% by mass of Si with the balance being Fe and inevitable impurities; has a sheet thickness of 0.18-0.35 mm; has a metallographic structure including matrix grains of Goss-oriented secondary recrystallized grains after final annealing, wherein Goss-oriented crystal grains existing in the matrix and having a major diameter of 5 mm or smaller exist in the metallographic structure at a frequency of 1.5 grains/cm^2 to 8 grains/cm^2; and has a magnetic flux density B8 of 1.88T or greater. As for the orientations of the Goss-oriented crystal grains having a major diameter of 5 mm or smaller, the <100> orientation of the Goss-oriented crystal grains deviate from the rolling direction by an angle of 7 degrees or smaller and by an angle of 5 degrees or smaller in terms of a simple average of an a angle and that of a ß angle, respectively. a angle: an angle between the longitudinal direction (rolling direction) and the [001] axis and orientation of the Goss-oriented grain as projected on a rolled surface of a test piece. ß angle: an angle formed by the [001] axis of the Goss-oriented crystal grain with respect to the rolled surface.

No. of Pages : 22 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2020

(21) Application No.202017053952 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PEPTIDE HAVING SKIN WHITENING ACTIVITY AND USE THEREOF

(51) International classification	:A61Q0019020000, A61K0008640000, A61K0038000000, C07K0007060000, C07K0007080000
(31) Priority Document No	:10-2019-0101880
(32) Priority Date	:20/08/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/013266 :10/10/2019
(87) International Publication No	:WO 2021/033831
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CHUNG, Yongji
2)KIM, Eun Mi
3)LEE, Eung Ji
4)KIM, Jan Di

(57) Abstract :
The present application relates to a peptide having skin whitening activity and a use thereof, and provides a peptide consisting of the amino acid sequence of SEQ ID NO: 1, SEQ ID NO: 2, or SEQ ID NO: 3, a composition for skin whitening comprising the peptide, a cosmetic composition comprising the composition for skin whitening, and a pharmaceutical composition for preventing or treating melanin hyperpigmentation disorders comprising the composition for skin whitening.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2020

(21) Application No.202017053979 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ASSEMBLY FOR SATURATING A MEDIUM WITH A FLUID

(51) International classification	:F26B0025220000, F26B0009060000, B65D0088740000, F26B0009100000, F26B0021000000
(31) Priority Document No	:62/671122
(32) Priority Date	:14/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032222 :14/05/2019
(87) International Publication No	:WO 2019/222219
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)HARWEGER, Eric

(57) Abstract :
An assembly for saturating or aerating a medium with fluid. At least one hollow cylinder having gates and vents embedded within a grain mass. A target section of grain mass is identified and the gates and vents activated to provide influent flow to the target section in both vertical and horizontal directions.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202017054247 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ALCOHOL-FREE BOTANICAL ORAL CARE PRODUCTS

(51) International classification	:A61Q0011000000, A61K0009000000, A61C0015040000, A61K0008978900, A61K0008730000
(31) Priority Document No	:62/675514
(32) Priority Date	:23/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/033799 :23/05/2019
(87) International Publication No	:WO 2019/226921
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MODAK, Shanta M.
2)DE SILVA, Chathuranga C.

(57) Abstract :
The present technology relates to alcohol-free botanical oral care compositions that are stable, natural, non-irritating and effective against oral pathogens. In various embodiments, these compositions can be in the form of an oral rinse, a toothpaste, an oral patch, an oral spray, a dental floss, or a lozenge. The present technology also relates to methods of treating a wound, and methods of coating a medical device, using any of the compounds discussed herein.

No. of Pages : 79 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020
(21) Application No.202017054248 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : C-MANNOSIDE COMPOUNDS USEFUL FOR THE TREATMENT OF URINARY TRACT INFECTIONS

(51) International classification	:A61K0045060000, A61K0009000000, C07D0487040000, C07D0405140000, C07D0401040000
(31) Priority Document No	:62/695993
(32) Priority Date	:10/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/055806 :08/07/2019
(87) International Publication No	:WO 2020/012336
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)COLANDREA, Vincent J.
3)LI, Yuehu
4)STEWART, Eugene L.
5)STRAMBEANU, Iulia
6)WIDDOWSON, Katherine Louisa
7)JANETKA, James Walter
8)MCGRANE, Laurel Kathryn

(57) Abstract :
Disclosed herein are new C-mannoside compounds and compositions and their application as pharmaceuticals for the treatment of human disease. Methods of inhibition of FimH activity in a human subject are also provided for the treatment diseases such as urinary tract infection.

No. of Pages : 55 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020
(21) Application No.202017054254 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DATA ACQUISITION CONTROL FOR ADVANCED ANALYTIC INSTRUMENTS HAVING PULSED OPTICAL SOURCES

(51) International classification	:G01N0021640000, H01S0003110000, H04L0029080000, G01P0015000000, G16H0010600000
(31) Priority Document No	:62/685717
(32) Priority Date	:15/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/037354 :14/06/2019
(87) International Publication No	:WO 2019/241733
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)ROTHBERG, Jonathan, M.
2)CIPRIANY, Benjamin
3)AHMAD, Faisal, R.
4)CLARK, Joseph, D.
5)FRIER, Daniel, B.
6)FERRIGNO, Michael
7)DAVEY, Mel
8)THURSTON, Tom
9)GYARFAS, Brett, J.
10)REARICK, Todd
11)JORDAN, Jeremy, Christopher

(57) Abstract :
Instrument control and data acquisition in advanced analytic systems that utilize optical pulses for sample analysis are described. Clocking signals for data acquisition, data processing, communication, and/or other data handling functionalities can be derived from an on-board pulsed optical source, such as a passively mode-locked laser. The derived clocking signals can operate in combination with one or more clocking signals from a stable oscillator, so that instrument operation and data handling can tolerate interruptions in operation of the pulsed optical source.

No. of Pages : 54 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202017054265 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SMALL MOLECULE INHIBITORS OF THE JAK FAMILY OF KINASES

(51) International classification	:C07D0471140000, C07D0498180000, C07D0295088000, C07C0291020000, C07F0009655800
(31) Priority Document No	:62/685737
(32) Priority Date	:15/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/055005 :14/06/2019
(87) International Publication No	:WO 2019/239387
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)JANSSEN PHARMACEUTICA NV
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(72)**Name of Inventor :**
1)FERNANDES, Philippe
2)TICHENOR, Mark S.
3)KRAWCZUK, Paul J.

(57) Abstract :
2-((1r,4r)-4-(imidazo[4,5-d]pyrrolo[2,3-b]pyridin-1(6H)-yl)cyclohexyl)acetonitrile compounds, pharmaceutical compositions containing them, methods of making them, and methods of using them including methods for treating disease states, disorders, and conditions mediated by JAK.

No. of Pages : 103 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202017054267 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A PULSED FLOW REACTOR AND USE THEREOF

(51) International classification	:B01J0019240000, B01J0019000000, B01F0005060000, B01F0013000000, G01F0001000000
(31) Priority Document No	:2018/5338
(32) Priority Date	:25/05/2018
(33) Name of priority country	:Belgium
(86) International Application No Filing Date	:PCT/EP2019/063522 :24/05/2019
(87) International Publication No	:WO 2019/224376
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)AJINOMOTO OMNICHEM
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2)ECOSYNTH
(72)**Name of Inventor :**
1)METTEN, Bert, D,F,
2)TOYE, Koen
3)VAN AKEN, Koen, Jeanne, Alfons
4)DEBROUWER, Wouter

(57) Abstract :
A planar flow reactor comprising a straight planar process channel, a flow generator configured to generate a pulsatile flow within the process channel, the pulsatile flow comprising a unidirectional net flow through the process channel and an oscillatory flow superposed on said net flow, and a plurality of static mixing elements disposed within the process channel and configured to locally split and recombine said flow. A straight planar process channel enables the generation of a flow pattern that is largely independent of the width of the process channel, meaning that the throughput may be increased by increasing the width without significantly affecting the residence time distribution or the flow behaviour. Furthermore, by creating a pulsatile flow within the process channel, turbulence and/or chaotic fluid flows may be generated even at low net flow rates, i.e. low net Reynolds numbers.

No. of Pages : 39 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202017054394 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PEPTIDE HAVING SKIN WHITENING ACTIVITY AND USE THEREOF

(51) International classification	:A61Q0019020000, A61K0038000000, C07K0007060000, A61K0008640000, C07K0007080000
(31) Priority Document No	:10-2019-0101883
(32) Priority Date	:20/08/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/013269 :10/10/2019
(87) International Publication No	:WO 2021/033833
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)CHUNG, Yongji
2)KIM, Eun Mi
3)LEE, Eung Ji

(57) Abstract :
The present invention relates to a peptide having skin whitening activity and a use thereof. The present invention provides a peptide consisting of the amino acid sequence of SEQ ID NO: 1, a cosmetic composition for skin whitening comprising the peptide, a pharmaceutical composition for preventing or treating hyperpigmentation disorders comprising the peptide, and a method for skin whitening or a method for preventing, ameliorating, or treating hyperpigmentation disorders using same.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054714 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ADIABATIC GEL POLYMERIZATION PROCESS FOR THE PRODUCTION OF WATER-SOLUBLE POLYELECTROLYTES

(51) International classification	:C08F0002480000, C08F0220560000, C08F0004040000, C08L0033260000, C08J0003075000
(31) Priority Document No	:15/981840
(32) Priority Date	:16/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032338 :15/05/2019
(87) International Publication No	:WO 2019/222301
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)SOLENIS TECHNOLOGIES, L.P.
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(72)**Name of Inventor :**
1)BIERGANNS, Patric
2)BROCHER, Markus
3)DOLLENDORF, Christian

(57) Abstract :
The current process relates to an adiabatic gel polymerization process for the production of water-soluble polyelectrolytes using UV LED modules or a combination of a UV tube light sources and UV LED modules wherein the resulting polymer has increased throughput, lower residual monomer content as well as lower insolubles compared with current photoinitiated polymerization processes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054718 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PROCESS FOR THE PREPARATION OF QUINMERAC

(51) International classification	:A01N0043420000, B01D0015360000, C08L0051060000, A61K0047540000, H01M0004380000
(31) Priority Document No	:62/689235
(32) Priority Date	:24/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/038727 :24/06/2019
(87) International Publication No	:WO 2020/005830
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)ADAMA AGAN LTD.
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2)GERAGHTY, Erin
(72)**Name of Inventor :**
1)YACOVAN, Avihai
2)TZOR, Omer

(57) Abstract :
It is an object of the present invention to provide a novel and advantageous process for commercially preparing quinmerac.

No. of Pages : 9 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054719 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHODS FOR CHARACTERIZING PROTEIN COMPLEXES

(51) International classification	:C07K0016280000, C07K0016000000, H04N0021442000, A61K0038170000, C08K0005000000
(31) Priority Document No	:62/724700
(32) Priority Date	:30/08/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/048526 :28/08/2019
(87) International Publication No	:WO 2020/047067
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)REGENERON PHARMACEUTICALS, INC.
Address of Applicant :777 Old Saw Mill River Road Tarrytown, New York 10591-6707 U.S.A.
(72)**Name of Inventor :**
1)LIU, Nina
2)ROSCONI, Michael
3)PYLES, Erica

(57) Abstract :
Methods for characterizing protein complexes formed between protein drug products and soluble ligands are provided herein. The disclosed methods can determine the size, heterogeneity, and conformation of protein complexes.

No. of Pages : 39 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054720 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : LIPID EMULSION FOR PARENTERAL NUTRITION COMPRISING GPC

(51) International classification	:A61K0009000000, A23L0033120000, A23L0033000000, A61K0031202000, A61K0009107000
(31) Priority Document No	:62/679352
(32) Priority Date	:01/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/034403 :29/05/2019
(87) International Publication No	:WO 2019/232054
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)BAXTER HEALTHCARE SA
(72)**Name of Inventor :**
1)JEANNIN, Laurent
2)HECQ, Julien

(57) Abstract :
The present disclosure relates to parenteral nutritional formulations, including ready-to-use parenteral nutrition formulations. More particularly, the present disclosure is directed to lipid formulations or emulsions and multi-chamber containers comprising same, wherein the lipid emulsion contains glycerophosphorylcholine as a choline source. The present disclosure further relates to methods of providing choline to a patient in need of parenteral nutrition and methods of avoiding and/or treating choline deficiency and liver damage.

No. of Pages : 41 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054722 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TREATMENT OF IDIOPATHIC PULMONARY FIBROSIS WITH GLYCOGEN SYNTHASE KINASE 3 FORM BETA INHIBITORS

(51) International classification	:C07D0401140000, A61K0049000000, C07D0405140000, A61K0038000000, A61K0031454500
(31) Priority Document No	:62/672864
(32) Priority Date	:17/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/032639 :16/05/2019
(87) International Publication No	:WO 2019/222483
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)TUCKER, Torry A.
2)IDELL, Steven

(57) Abstract :
Pharmaceutical compositions and methods are described which rely upon glycogen synthase kinase 3 (form ß; GSK 3 ß) inhibitors, most preferably 9-ING-41, to inhibit fibrotic pulmonary remodeling in vivo including proliferation and differentiation of myofibroblasts to fibrotic fibroblasts in several mouse models. Therapeutic targeting of GSK-3ß with the clinically useful specific inhibitor, 9-ING-41, mitigates fibrotic pulmonary remodeling in vivo and provides a mode of therapy of human IPF by specific GSK-3ß inhibition with 9-ING-41.

No. of Pages : 22 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054731 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : THERMOLYTIC FRAGMENTATION OF SUGARS USING RESISTANCE HEATING

(51) International classification	:C07C0045600000, C07C0027000000, B01J0006000000, B01J0008080000, C07C0031100000
(31) Priority Document No	:PA 2018 00393
(32) Priority Date	:16/07/2018
(33) Name of priority country	:Denmark
(86) International Application No Filing Date	:PCT/EP2019/069073 :16/07/2019
(87) International Publication No	:WO 2020/016209
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)HALDOR TOPSØE A/S
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(72)**Name of Inventor :**
1)PEDERSEN, Lars Storm
2)LARSEN, Morten Boberg
3)MORTENSEN, Peter Mølgaard

(57) Abstract :
A process for large scale and energy efficient production of oxygenates from sugar is disclosed in which a sugar feedstock is introduced into a thermolytic fragmentation reactor comprising a fluidized stream of heat carrying particles which are separated from the reaction product and directed to a reheater comprising a resistance heating system.

No. of Pages : 30 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054732 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR MANAGING BRAKING IN A DEGRADED ADHESION CONDITION FOR A TRAIN

(51) International classification	:B60T0008170000, B60T0007120000, B60T0008172000, B60L0003100000, B60T0007040000
(31) Priority Document No	:102018000005948
(32) Priority Date	:01/06/2018
(33) Name of priority country	:Italy
(86) International Application No Filing Date	:PCT/IB2019/054518 :31/05/2019
(87) International Publication No	:WO 2019/229709
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)FAIVELEY TRANSPORT ITALIA S.P.A.
Address of Applicant :Via Volvera 51 10045 Piossasco (Torino) Italy
(72)**Name of Inventor :**
1)FREA, Matteo
2)IMBERT, Luc

(57) Abstract :
A method for managing braking in a degraded adhesion condition is described, comprising the steps of: - setting a target deceleration value (Dobb) that allows the train to reach a zero traveling speed in a target stopping distance (Disobb); - applying a non-degraded braking force (Fnd), the value of which allows the target deceleration value (Dobb) to be obtained; - verifying the presence of a degraded adhesion condition; - if no degraded adhesion condition is detected, maintaining the application of the non-degraded braking force (Fnd); - if a degraded adhesion condition is detected: - by means of sliding control means, ensuring that the braking means apply a degraded braking force (Fd); - activating recovery means arranged to positively influence the train deceleration; - determining a compensation deceleration value (Dcomp); - applying a compensation braking force by means of at least one braking means and/or recovery means, so that the train reaches a zero traveling speed within the target stopping distance (Disobb).

No. of Pages : 15 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054735 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR THE TREATMENT OF HEMOGLOBINOPATHIES AND THALASSEMIAS

(51) International classification	:C12N0009220000, A61K0048000000, A61K0009000000, A61K0031442700, A61P0007000000
(31) Priority Document No	:62/687721
(32) Priority Date	:20/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/037925 :19/06/2019
(87) International Publication No	:WO 2019/246214
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :840 Memorial Drive, 3rd Floor Cambridge, MA 02139 U.S.A.
(72)**Name of Inventor :**
1)CARROLL, Sean
2)RUSSELL, Matthew
3)AFEYAN, Raffi

(57) Abstract :
This disclosure provides compositions and methods for improving erythrocyte dysfunction or treating a hemoglobinopathy or a thalassemia (e.g., sickle cell disease or ß-thalassemia).

No. of Pages : 103 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054766 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PARENTERAL NUTRITION FORMULATION

(51) International classification	:A23L0033000000, A23L0033120000, A61K0009000000, A23L0033110000, A61K0008060000	(71)**Name of Applicant :** **1)BAXTER INTERNATIONAL INC.** Address of Applicant :One Baxter Parkway Deerfield, Illinois 60015 U.S.A. **2)BAXTER HEALTHCARE SA**
(31) Priority Document No	:62/679352	(72)**Name of Inventor :**
(32) Priority Date	:01/06/2018	**1)TROUILLY, Jean-Luc**
(33) Name of priority country	:U.S.A.	**2)HISE BROWN, Mary**
(86) International Application No Filing Date	:PCT/US2019/034388 :29/05/2019	**3)JEANNIN, Laurent** **4)HECQ, Julien**
(87) International Publication No	:WO 2019/232044	**5)FAHIER, Julie**
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
Parenteral nutrition formulations for pediatric patients are disclosed. The nutritional formulations include a lipid formulation that comprises an aqueous phase and an oil phase, wherein the lipid formulation is in the form of an oil-in-water emulsion. Multi-chamber containers for parenteral nutrition administration comprising a carbohydrate formulation present in a first chamber, an amino acid formulation present in a second chamber, and the lipid formulation present in a third chamber also are disclosed.

No. of Pages : 41 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202017054851 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POWER CONVERSION DEVICE

(51) International classification	:H02M0001120000, H02M0007480000, H02M0007493000, H02M0007000000, H02M0007539500
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2019/009163 :07/03/2019
(87) International Publication No	:WO 2020/179064
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)YAMAMOTO, Yushin
2)OGASAWARA, Satoshi
3)OHARA Shunsuke

(57) Abstract :
This power conversion device is provided with: a voltage detection means for detecting a common-mode voltage generated during a switching operation of a power semiconductor element; a voltage superposition means for superposing the common-mode voltage detected by the voltage detection means on an output of the power conversion device to cancel the common-mode voltage in a frequency equal to or higher than a switching frequency generated during the switching operation of the power semiconductor element; and a residual voltage detection means for detecting the common-mode voltage of the power conversion device superposed by the voltage superposition means. The voltage superposition means includes a feedback means for adding the common-mode voltage detected by the residual voltage detection means and superposing the added result on the output of the power conversion device. The voltage detection means comprises a first choke coil and a first capacitor.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2020

(21) Application No.202017054927 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TRANSPORT SYSTEM

(51) International classification	:B01L0001040000, B65G0054020000, H01L0021677000, B65G0051020000, F21Y0115100000
(31) Priority Document No	:10 2018 211 839.6
(32) Priority Date	:17/07/2018
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2019/068945 :15/07/2019
(87) International Publication No	:WO 2020/016146
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WALLISCH, Manuel
2)BÖHMIKE, Andreas

(57) Abstract :
The invention relates to a clean room (50), a transport element (10) movable inside the clean room (50), and a drive element (30) of the transport element (10), which is arranged outside the clean room (50), wherein the transport element (10) is not connected to the drive element (30) and is only coupled to the drive element (30) or driven by the drive element (30) by contactless remote forces, wherein the transport element (10) is a separate element, particularly separate from the floor, the ceiling, the walls and/or other parts of the clean room (50), and particularly has no interlocking connection in any spatial direction to the floor, ceiling, walls and/or other parts of the clean room (50) and/or other elements. The invention further relates to a corresponding transport element (10).

No. of Pages : 21 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2020

(21) Application No.202017054945 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : OPHTHALMIC MICROSURGICAL TOOLS, SYSTEMS, AND METHODS OF USE

(51) International classification	:A61F0009007000, A61M0001000000, A61F0009008000, A61M0003020000, A61B0017220000
(31) Priority Document No	:62/680723
(32) Priority Date	:05/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035442 :04/06/2019
(87) International Publication No	:WO 2019/236615
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)BALKENBUSH, Casey
2)BENTLEY, Peter
3)CLAUSON, Luke W.
4)NEWELL, Matthew
5)SCHALLER, Michael

(57) Abstract :
A system for extracting lens material from an eye including an instrument having a first aspiration pump driven by a drive mechanism having a motor, and an elongate member sized and configured to extend through an anterior chamber to a capsular bag of the eye. The elongate member configured to be oscillated by the drive mechanism includes an inner lumen fluidly coupled to the first aspiration pump and defining at least a portion of an aspiration waste line, and an open distal end having a distal cutting tip. The system can further include a fluid system remote from the surgical instrument including a second aspiration pump and a fluid line configured to deliver background aspiration from the second aspiration pump to the inner lumen of the elongate member to aspirate the lens material from the eye towards the inner lumen. Related devices, systems,

No. of Pages : 93 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2020

(21) Application No.202017054965 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ICE CREAM DISPENSING MACHINE AND CARTRIDGE

(51) International classification	:A23G0009280000, A23G0009220000, A23G0009080000, B65D0083000000, B65D0085780000
(31) Priority Document No	:62/673173
(32) Priority Date	:18/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/033158 :20/05/2019
(87) International Publication No	:WO 2019/222752
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)SPIRK, John Evan
2)STEPHAN, Gary Robert
3)KLINK, Richard
4)VITANTONIO, Marc
5)VELET, Alexander
6)ERTEL, Jason R.
7)PEHAR, David
8)VYSTRCIL, Robert
9)SEBASTIAN, William

(57) Abstract :
A machine for dispensing an individual portion of a frozen dessert may include a cartridge cart having walls forming a cylindrical cavity having a longitudinal central axis and configured to accommodate a cartridge. The cartridge may include a cylindrical tube having first and second ends, a nozzle disposed at the first end, and a piston disposed between the nozzle and the second end and configured to slidably move along the cylindrical tube. The individual portion of the frozen dessert may be contained within the cylindrical tube between the nozzle and the piston. The machine may also include a plunger, a drive source operably coupled to the plunger and configured to drive the plunger along the central axis, and a support configured to support the first end of the cartridge such that actuating the drive source causes the individual portion of frozen dessert to dispense through the nozzle.

No. of Pages : 14 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2020

(21) Application No.202017054966 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CONTROL SYSTEM AND METHOD FOR A FLUID MIXING APPARATUS

(51) International classification	:C12M0001360000, C12M0001060000, C12M0001340000, C12M0001000000, B01F0015000000
(31) Priority Document No	:62/677731
(32) Priority Date	:30/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/034248 :29/05/2019
(87) International Publication No	:WO 2019/231949
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)RICKES, Scott
3)ZIMMERMAN, Sean
4)BARBOSA, Alessandra
5)LING, Mio
6)SOH, Woon Liang
7)MULLEN, Kevin
8)BRAU, Christopher
9)COBIA, Jordan
10)SICAT, Harmon Jr. Cosme
11)CHONG, Kok Shyong
12)WEI, Han
13)TEO, Wei Fuh
14)ALI, Syed Muhammad Baber

(57) Abstract :
The present set of embodiments relate to a system, method, and apparatus controlling a cell culture media mixing system. The control system includes an integrated control unit capable of controlling a broad ranges of peripheral devices commonly used in bioproduction through a graphical user interface displayed on a touch sensitive screen. The bioproduction system is designed to be highly customizable through process modification and recipe creation by user with little or no knowledge of programming and is capable of controlling a wide variety of devices using a single unit. The bioproduction system allows for auto-detection, auto-calibration, and automatic of device related processes into a bioproduction workflow.

No. of Pages : 31 No. of Claims : 68

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055162 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MULTI-LAYER WOUND CARE DEVICE HAVING ABSORPTION AND FLUID TRANSFER PROPERTIES

(51) International classification	:A61F0013000000, A61F0013020000, A61L0015180000, A61L0015440000, A61L0015580000
(31) Priority Document No	:62/691660
(32) Priority Date	:29/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/037897 :19/06/2019
(87) International Publication No	:WO 2020/005662
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MONDAL, Rajib
2)FOOTE, Matthew I.
3)ACEVEDO, Cristina M.
4)HAAS, Geoffrey R.

(57) Abstract :
This disclosure relates to a multi-layer wound care device having absorption and fluid transfer properties. The wound care device contains capillary force one-way pumps that are capable of transporting fluid, such as wound exudate, away from a wound site to the opposite side of the wound care device, which functions as a segregated fluid reservoir. This fluid transport mechanism generally aids in reducing wound maceration by removing excess wound fluid and the protease enzymes and infectious bacteria contained within the wound fluid. The wound care device performs this function, often times for multiple days, without the loss of the physical integrity of the wound care device. In addition to providing a uni-directional fluid transport mechanism, the wound care device provides improved absorption properties.

No. of Pages : 31 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055189 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MICRO ELECTROSTATIC MOTOR AND MICRO MECHANICAL FORCE TRANSFER DEVICES

(51) International classification	:B81B0005000000, H02N0002120000, H02K0007116000, B81C0001000000, H04M0001030000
(31) Priority Document No	:62/681725
(32) Priority Date	:07/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035517 :05/06/2019
(87) International Publication No	:WO 2019/236667
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MARSH, Stephen Alan

(57) Abstract :
Disclosed is a force transfer device that includes a first body that has a first body frame that defines a first chamber and at least one gear element. The gear element has a central gear element region. A first membrane is affixed to a surface of the first body frame, the membrane covering the chamber and having an annular aperture enclosing a central region of the membrane that is affixed to the central gear element region of the gear element. The disclosed force transfer device can be axle or shaft based. Also disclosed in a micro electrostatic motor that includes a motor body having a first and a second face, the motor body defining a chamber and a rotor having a central region. A membrane is disposed over the first face of the motor body, the membrane supporting a pair of spaced electrodes that are electrically isolated by a gap, the membrane having an annular aperture that defines a central region of the membrane that is coupled to the central region of the rotor. The force transfer device can be driven by the electrostatic motor.

No. of Pages : 28 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055190 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MICRO ELECTROSTATIC MOTOR AND MICRO MECHANICAL FORCE TRANSFER DEVICES

(51) International classification	:H02N0002120000, B81B0005000000, B81C0001000000, H02K0007116000, H01L0033620000
(31) Priority Document No	:62/681715
(32) Priority Date	:07/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035536 :05/06/2019
(87) International Publication No	:WO 2019/236676
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)ENCITE LLC
Address of Applicant :1 North Avenue Burlington, Massachusetts 01803 U.S.A.
(72)**Name of Inventor :**
1)MARSH, Stephen Alan

(57) Abstract :
Disclosed is a micro electrostatic motor that includes a body having a first and a second face and a chamber. A first membrane is disposed over the first face of the body and a rotatable disk is disposed in the chamber about a member. The disk in the chamber and is free to rotate about the member. The disk has on a first surface thereof a set of three mutually electrically isolated electrodes, with each of the electrodes having a tab portion and being electrically isolated from the member. A second membrane is disposed over the second face and a pair of spaced electrodes are on portions of the second membrane, with the pair of spaced electrodes isolated by a gap. A cylindrical shaped member is disposed in the chamber electrically isolated from the three mutually electrically isolated electrodes on the disc.

No. of Pages : 28 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055192 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HIGH STRAIN POINT AND HIGH YOUNG'S MODULUS GLASSES

(51) International classification	:C03C0003091000, C03C0003087000, C03B0017060000, C03C0003093000, C03C0004000000
(31) Priority Document No	:62/686850
(32) Priority Date	:19/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/036280 :10/06/2019
(87) International Publication No	:WO 2019/245777
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :1 Riverfront Plaza Corning, New York 14831 U.S.A.
(72)**Name of Inventor :**
1)BOTU, Venkatesh
2)GUO, Xiaoju
3)KING, Ellen Anne
4)LAMBERSON, Lisa Ann
5)TANDIA, Adama
6)VARGHEESE, Kochuparambil Deenamma
7)WU, Jingshi

(57) Abstract :
Substantially alkali free glasses are disclosed with can be used to produce substrates for flat panel display devices, e.g., active-matrix liquid crystal displays (AMLCDs). The glasses have high annealing temperatures and Young's modulus. Methods for producing substantially alkali free glasses using a downdraw process (e.g., a fusion process) are also disclosed.

No. of Pages : 37 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055284 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MACHINE LEARNING ANALYSIS OF PIPING AND INSTRUMENTATION DIAGRAMS

(51) International classification	:G06N0020000000, G06K0009620000, G06K0009000000, G06K0009460000, G06N0003080000
(31) Priority Document No	:16/021867
(32) Priority Date	:28/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/036651 :12/06/2019
(87) International Publication No	:WO 2020/005541
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)SCHNEIDER ELECTRIC SYSTEMS USA, INC.
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(72)**Name of Inventor :**
1)SINHA, Bhaskar
2)PATIL, Ashish
3)BHATTACHARYYA, Amitabha
4)JAGANNATH, Venkatesh
5)KONDEJKAR, Sameer

(57) Abstract :
Automated evaluation and extraction of information from piping and instrumentation diagrams (P&IDs). Aspects of the systems and methods utilize machine learning and image processing techniques to extract relevant information, such as tag names, tag numbers, and symbols, and their positions, from P&IDs. Further aspects feed errors back to a machine learning system to update its learning and improve operation of the systems and methods.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055285 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PYRAZOLE DERIVATIVES AS MALT1 INHIBITORS

(51) International classification	:C07D0405140000, C07D0413140000, A61P0035000000, C07D0401140000, A61P0001000000
(31) Priority Document No	:62/686451
(32) Priority Date	:18/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/054965 :13/06/2019
(87) International Publication No	:WO 2019/243965
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)CUMMINGS, Maxwell David
3)DIELS, Gaston Stanislas Marcella
4)THURING, Jan Willem
5)PHILIPPAR, Ulrike
6)EDWARDS, James Patrick
7)BERTHELOT, Didier Jean-Claude
8)WU, Tongfei
9)LU, Tianbao

(57) Abstract :
Disclosed are compounds, compositions and methods for treating of diseases, syndromes, conditions, and disorders that are affected by the modulation of MALT1. Such compounds are represented by Formula (I) as follows: wherein R1, R2, R3, R4, R5, R6, R7, G1 and G2, are defined herein.

No. of Pages : 137 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055289 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PYRAZOLE DERIVATIVES AS MALT1 INHIBITORS

(51) International classification	:C07D0405140000, C07D0413140000, A61P0035000000, C07D0401140000, A61P0031120000	(71)**Name of Applicant :** **1)JANSSEN PHARMACEUTICA NV** Address of Applicant :Turnhoutseweg 30 B-2340 Beerse Belgium
(31) Priority Document No	:62/686447	(72)**Name of Inventor :** **1)CONNOLLY, Peter J.**
(32) Priority Date	:18/06/2018	**2)CUMMINGS, Maxwell David**
(33) Name of priority country	:U.S.A.	**3)BARBAY, Joseph Kent**
(86) International Application No	:PCT/IB2019/054964	**4)KREUTTER, Kevin D.**
Filing Date	:13/06/2019	**5)WU, Tongfei**
(87) International Publication No	:WO 2019/243964	**6)DIELS, Gaston Stanislas Marcella**
(61) Patent of Addition to Application Number	:NA	**7)THURING, Jan Willem**
Filing Date	:NA	**8)PHILIPPAR, Ulrike**
(62) Divisional to Application Number	:NA	**9)EDWARDS, James Patrick**
Filing Date	:NA	**10)SHEN, Fang**
		11)LU, Tianbao

(57) Abstract :
Disclosed are compounds, compositions and methods for treating of diseases, syndromes, conditions, and disorders that are affected by the modulation of MALT1. Such compounds are represented by Formula (I) as follows: Formula (I) wherein R1, R2, R3, R4, R5, and G, are defined herein.

No. of Pages : 414 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202017055291 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IMMUNOGENIC COMPOSITION

(51) International classification	:C12N0007000000, C12N0015860000, C12N0015740000, A61K0035760000, A61K0048000000
(31) Priority Document No	:62/686889
(32) Priority Date	:19/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/065974 :18/06/2019
(87) International Publication No	:WO 2019/243307
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)FERON, Christiane Marie-Paule Simone Jeanne
2)GIANNINI, Sandra

(57) Abstract :
The present invention discloses an engineered bacteriophage capable of binding to a commensal bacterium and inserting its genome polynucleotide into the commensal bacterium, but incapable of producing progeny, incapable of carrying out a lysogenic cycle and incapable of carrying out a lytic cycle within the commensal bacterium, wherein the engineered bacteriophage comprises a genome polynucleotide including at least one gene encoding at least one heterologous antigen(s) under the control of a promoter.

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055483 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SOLAR MODULE TRACKER SYSTEM OPTIMIZED FOR BIFACIAL SOLAR MODULES

(51) International classification	:H01L0031068000, H01L0031042000, H01L0031048000, H01L0031054000, F24S0030000000
(31) Priority Document No	:62/692200
(32) Priority Date	:29/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/040208 :01/07/2019
(87) International Publication No	:WO 2020/006575
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)BEARDSWORTH, Greg
2)ABBARAJU, Venkata
3)SHUGAR, Daniel

(57) Abstract :
A solar tracker including solar modules which include, a frame and a plurality of bifacial solar cells supported by the frame. The solar modules also including a gap formed between two or more of the solar cells, the gap being formed proximate a centerline of the solar modules and configured to a allow passage of light from a first side of the solar modules to a second side of a solar modules, where the light passing through the gap is reflected back onto the plurality of bifacial solar cells and converted to electrical energy.

No. of Pages : 12 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055485 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HETEROCYCLENE DERIVATIVES AS PEST CONTROL AGENTS

(51) International classification	:A01N0043900000, C07D0471040000, C07D0239560000, C07D0519000000, C07H0017080000
(31) Priority Document No	:18179885.1
(32) Priority Date	:26/06/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/066187 :19/06/2019
(87) International Publication No	:WO 2020/002082
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)WILLOT, Matthieu
2)FISCHER, Rüdiger
3)HAGER, Dominik
4)HOFFMEISTER, Laura
5)WILCKE, David
6)ILG, Kerstin
7)GÖRGENS, Ulrich

(57) Abstract :
The invention relates to novel compounds of formula (I), wherein X, R1, R2, R3, V and n have the meanings indicated in the description, to the use thereof as acaricides and/or insecticides for controlling animal pests, and to methods and intermediate products for the production thereof.

No. of Pages : 87 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055486 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : FISH-MOUTH-RESISTANT WATERPROOFING MEMBRANE

(51) International classification	:E04D0005100000, H05K0003240000, D04H0005060000, E04D0005140000, C25D0007000000
(31) Priority Document No	:62/680213
(32) Priority Date	:04/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2018/037704 :15/06/2018
(87) International Publication No	:WO 2019/236112
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)GCP APPLIED TECHNOLOGIES INC.
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(72)**Name of Inventor :**
1)COUTURIER, Marysusan
2)SETH, Jyoti

(57) Abstract :
The present invention provides methods and articles for achieving puncture- resistant waterproofing membranes and for waterproofing building and civil engineering surfaces without requiring the use of separate protection boards. Exemplary membranes and methods of the invention rely on relatively thin, flexible composite layers to provide impact resistance while yet facilitating seaming between adjacent installed membranes and minimizing formation of wrinkles, leakage channels, andfish mouth" openings, particularly at substrate details or other surface irregularities.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055509 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTAGONISTS AND AGONISTS OF THE TRANSFERRIN RECEPTOR-2 FOR USE IN THE TREATMENT OF DISEASES OF THE BONE

(51) International classification	:C07K0014705000, A61K0039000000, A61K0038000000, A61K0038170000, A61P0019080000
(31) Priority Document No	:18177441.5
(32) Priority Date	:13/06/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/065257 :11/06/2019
(87) International Publication No	:WO 2019/238713
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)RAUNER, Martina
2)HOFBAUER, Lorenz
3)PLATZBECKER, Uwe
4)BASCHANT, Ulrike
5)THEURL, Igor
6)GERMASCHEWSKI, Volker

(57) Abstract :
The invention relates to a protein for use in diagnosing and treating primary or secondary sclerosing diseases, a fusion protein, and nucleotide sequence and a vector, and to a pharmaceutical composition for use in diagnosing and treating primary or secondary sclerosing diseases. The invention also relates to a transferrin receptor 2 inhibitor for use in the treatment of bone diseases, iron metabolism disorders or hematopoietic disorders.

No. of Pages : 138 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055511 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CEREAL MILL AND ROLL STAND HAVING MULTIPLE MILLING PASSAGES FOR OPTIMIZED MILLING OF MILLING MATERIAL AND CORRESPONDING METHOD

(51) International classification	:B02C0009040000, B02C0004060000, B02C0025000000, G05B0019050000, H04W0052140000
(31) Priority Document No	:18174239.6
(32) Priority Date	:25/05/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/059131 :10/04/2019
(87) International Publication No	:WO 2019/223930
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)BÜHLER AG
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(72)**Name of Inventor :**
1)SCHNEIDER, Michael

(57) Abstract :
The invention relates to a milling installation (1) and a corresponding method for the milling and/or crushing of granular fruits or the like, in particular an optimized closed-loop and open-loop control method and a corresponding closed-loop and open-loop control apparatus for the optimized control of milling lines (3). The processing line (3) can, for example, comprise milling passages having milling roll pairs (B1, B2, Bx; C1, C2, Cx) for milling a milling material and, for example, screening passages (S) for sifting or screening the milling material. The milling installation (1) further comprises the central closed-loop and open-loop control apparatus (4) for the optimized control of the many installation (1), wherein memory-programmable controllers (201/plc) 10 are connected bidirectionally via network interfaces (202) to the central closed-loop and open-loop control apparatus (4) and/or addressed and controlled by means of transmitted control parameters (4311,...,431x). The control apparatus (4) controls centrally, in particular in a web-based manner, the processing apparatuses (31) of different passages (3) of the same or different mills (2). During the generation of the 1 control parameter (4311,...,431x), a distinction is drawn between passage-specific (43211,...,4321x) and environment-specific (43221,...,4322x) management/operating parameters.

No. of Pages : 38 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055515 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PROCESS FOR MAKING HIGH PURITY SALTS OF CIS-CYCLOHEXANE-1,2-DICARBOXYLIC ACID

(51) International classification	:B82Y0030000000, C08G0077080000, C07C0209840000, C08G0065260000, B05D0001020000
(31) Priority Document No	:62/693085
(32) Priority Date	:02/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/036533 :11/06/2019
(87) International Publication No	:WO 2020/009783
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)WANG, Xiaoying
3)LIU, Rui

(57) Abstract :
A process for making a high purity salt compound comprises the steps of providing an organic compound, providing a metal hydroxide compound, adding the metal hydroxide compound and organic compound to an aqueous medium, heating the reaction mixture to react the organic compound and the metal hydroxide compound, collecting a salt compound, exposing the collected salt compound to microwave radiation, and exposing the collected salt compound to infrared radiation.

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055517 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DRIVE DEVICE AND PIVOTAL WINDOW COMPRISING SAID DRIVE DEVICE

(51) International classification	:H02K0001270000, H02K0041030000, B63B0019020000, B23Q0017000000, H02K0001140000
(31) Priority Document No	:10 2018 113 373.1
(32) Priority Date	:05/06/2018
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2019/062712 :16/05/2019
(87) International Publication No	:WO 2019/233732
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)NAJORKA, Lars
(72)**Name of Inventor :**
1)NAJORKA, Lars

(57) Abstract :
The invention relates to a drive device (1) comprising an annular stator unit (10), an annular rotor unit (30), and a base (50). The stator unit (10) has at least three coils (11) with coil cores (12) and coil bodies (13). The rotor unit (30) has a bearing unit (31), said coils (11) forming a receiving chamber (14) in the stator unit (10). According to the invention, the coil cores (12) and the bearing unit (31) are positioned on the base (50). The invention additionally relates to a pivotal window (100) comprising such a drive device (1), wherein a disc (110) is arranged on the rotor unit (30).

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055519 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WEFT THREAD CUTTING DEVICE FOR LOOMS WITHOUT SHUTTLES

(51) International classification	:D03D0049700000, D03D0047340000, D03D0047120000, D03D0047480000, D03D0047000000
(31) Priority Document No	:102018000008980
(32) Priority Date	:27/09/2018
(33) Name of priority country	:Italy
(86) International Application No Filing Date	:PCT/IT2019/050202 :12/09/2019
(87) International Publication No	:WO 2020/065685
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)SANTEX RIMAR GROUP S.R.L.
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(72)**Name of Inventor :**
1)CORAIN, Luciano

(57) Abstract :
A weft thread cutting device for shuttle-less looms, said device being placed between a fabric edge (1), a comb (2) and a warp mouth, on one side, and a weft thread selector, on the other side; the weft threads, coming from a plurality of eyelets (5, 6, 7, 8, 9, 10, 11, 12), join at a vertex (T) located at the fabric edge (1) and at the beating line of the comb (2) where the formation of the fabric occurs. In particular, the cutting device is composed of a rotating disk (19) with a cutting edge, which is configured to cut the weft threads by means of a motor (18) which keeps it in rotation, and by means of a step control motor (25), which, through a rotating shaft (17) provided with an eccentric (17'), controls the motion of a hinged lever (15) which is configured to swing with respect to a longitudinal axis (26) of the step control motor (25). The lever (15) is shaped, at one end, in the form of two arms (13, 14), which rest respectively on the surfaces of two elastic plates (20, 21), and is also connected, at the other end, to the eccentric (17').

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020
(21) Application No.202017055520 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BIFURCATION OF SHARED CONTROLS AND PASSING CONTROLS IN A VIDEO GAME

(51) International classification	:A63F0013355000, H04L0029060000, H04L0029080000, A63F0013335000, A63F0013860000
(31) Priority Document No	:15/993603
(32) Priority Date	:31/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/031398 :09/05/2019
(87) International Publication No	:WO 2019/231628
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)BELTRAN, Justin
2)BUTLER, Dylan
3)JARZEBINSKI, Alexander

(57) Abstract :
A method is provided, including the following operations: executing a video game by a cloud gaming computer; streaming video generated from the executing video game over a network to a primary client device; streaming the video over the network from the primary client device to one or more secondary client devices; receiving, over the network by an input aggregation server, input data from the secondary client devices; sending, over the network by the input aggregation server, the input data from the secondary client devices to the primary client device, the primary client device being configured to generate combined input data by combining the input data from the secondary client devices with input data generated at the primary client device; receiving, over the network by the cloud gaming computer, the combined input data; applying, by the cloud gaming computer, the combined input data to drive the execution of the video game.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055521 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SUBSTITUTED 2-HETEROARYLOXYPYRIDINES AND SALTS THEREOF AND THEIR USE AS HERBICIDAL AGENTS

(51) International classification	:A01N0043540000, C07D0239260000, A01N0043653000, C07D0403120000, A01H0001020000
(31) Priority Document No	:18179566.7
(32) Priority Date	:25/06/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/066197 :19/06/2019
(87) International Publication No	:WO 2020/002089
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)BRAUN, Ralf
3)MACHETTIRA, Anu Bheemaiah
4)SCHMUTZLER, Dirk
5)ASMUS, Elisabeth
6)ROSINGER, Christopher Hugh
7)GATZWEILER, Elmar

(57) Abstract :
The invention relates to substituted 2-heteroaryloxypyridines of general formula (I) and to the use thereof as herbicides, in particular for controlling weeds and/or harmful grasses in useful plant crops and/or as plant growth regulators for influencing the growth of useful plant crops, The present invention further relates to herbicidal and/or plant growth regulating agents comprising one or more compounds of general formula (I).

No. of Pages : 99 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055524 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : GLASS PRODUCT MANUFACTURING APPARATUS AND METHOD OF MANUFACTURING GLASS PRODUCT

(51) International classification	:C03B0005420000, C03B0005185000, C03B0005440000, C03B0005260000, C03B0005237000
(31) Priority Document No	:10-2018-0071895
(32) Priority Date	:22/06/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/US2019/037689 :18/06/2019
(87) International Publication No	:WO 2019/246067
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)LEE, Ho-Soon
4)LEE, Seong-kuk
5)PARK, Hyun-gyu

(57) Abstract :
A glass product manufacturing apparatus and a method of manufacturing glass products are disclosed. The glass product manufacturing apparatus includes a melting vessel, a support grating configured to support an outer wall of the melting vessel, a cooling module configured to cool the outer wall of the melting vessel, on the support grating, and a support frame detachably fastened to the support grating to limit a movement of the support grating. By using the glass product manufacturing apparatus and the method of manufacturing glass products, high energy efficiency is maintained even when operating, and a defect rate is reduced.

No. of Pages : 12 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202017055567 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : FORMULATIONS FOR SIMIAN ADENOVIRAL VECTORS HAVING ENHANCED STABILITY

(51) International classification	:A61K0047180000, A61K0047260000, A61K0047120000, A61P0025000000, A61K0031355000
(31) Priority Document No	:18179977.6
(32) Priority Date	:26/06/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/IB2019/055347 :25/06/2019
(87) International Publication No	:WO 2020/003126
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MATHOT, Frédéric
2)VASSELLE, Mathieu

(57) Abstract :
The invention relates to liquid formulations of simian adenoviruses and methods for obtaining the formulations. The formulations comprise an amorphous sugar, Vitamin E succinate and recombinant human serum albumin in a buffered solution.

No. of Pages : 27 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2020
(21) Application No.202017056937 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD, DEVICE AND SYSTEM FOR RECOVERING RECOVERABLE ATTENUATION CAPACITY OF BATTERY

(51) International classification	:H02J0007000000, G06F0011140000, H01M0010540000, H01M0010420000, G01R0031367000
(31) Priority Document No	:201910338265.5
(32) Priority Date	:25/04/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/084332 :11/04/2020
(87) International Publication No	:WO 2020/216079
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)TANG, Shenzhi
2)DU, Mingshu
3)LI, Shichao
4)RUAN, Jian

(57) Abstract :
A method, a device and a system for recovering the recoverable attenuation capacity of a battery. The recovery method comprises: determining the recoverable attenuation capacity of a battery (11); determining the lower limit of a corresponding battery parameter according to the recoverable attenuation capacity of the battery (12); and instructing a discharge device to discharge the battery to the lower limit of the corresponding battery parameter (13). The recovery method, device and system for recovering the recoverable attenuated capacity of the battery can recover a part of the recoverable capacity attenuation generated by a battery cell system, so that the battery cell can exert the best performance.

No. of Pages : 27 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/12/2020

(21) Application No.202017057108 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BATTERY CAPACITY DETERMINATION METHOD AND DEVICE, MANAGEMENT SYSTEM AND STORAGE MEDIUM

(51) International classification	:G01R0031392000, G01R0031367000, G01R0031383500, H01M0010420000, H01M0010480000
(31) Priority Document No	:201910338512.1
(32) Priority Date	:25/04/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/084333 :11/04/2020
(87) International Publication No	:WO 2020/216080
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)RUAN, Jian
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3)TANG, Shenzhi
4)LI, Shichao
5)LU, Yanhua
6)ZHANG, Wei

(57) Abstract :
A battery capacity determination method and device, a battery management system and a storage medium. The battery capacity determination method comprises: acquiring a DOD corresponding to an SOC for battery operation (101), and a cycle count and a cycle temperature corresponding to the DOD (102), acquiring a reversible capacity attenuation amount of the battery according to the DOD, cycle count and cycle temperature (103), and determining an actual available capacity of the battery (104). The method, device, battery management system and storage medium can improve, for a battery having a reversible capacity attenuation, the accuracy of calculation results of an actual available capacity and SOH, the reliability and service life of a battery and user experience.

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202018040442 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SHARED SESSION TECHNIQUES

(51) International classification	:H04L 29/08, H04L 29/06
(31) Priority Document No	:14/476,328
(32) Priority Date	:03/09/2014
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2015/047635 :31/08/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717007249 :01/03/2017

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4)SHEEHAN, John Michael

(57) Abstract :
Data sharing session techniques are described. In one or more implementations, a first user login session is initiated as running in a context of a first user profile of a first user with an operating system of a computing device. A request is received by the operating system to run the first user login session in a context of a second user profile of a second user. The second user profile is associated by the operating system with a shadow login session created within the first user login session of the operating system of the computing device such that interaction of the second user with the operating system is associated with the second user profile and interaction of the first user with the operating system is associated with the first user profile.

No. of Pages : 32 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051845 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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4)OUFATTOLE, Mohammed
5)PETERSEN, Michael, W.

(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051847 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051849 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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5)PETERSEN, Michael, W.

(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051850 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051851 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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4)OUFATTOLE, Mohammed
5)PETERSEN, Michael, W.

(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051852 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051853 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051854 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051858 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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3)NICHOLS, Amy, M.
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5)PETERSEN, Michael, W.

(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202018051859 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N0015820000, A01H0005100000, C12N0015113000, C12N0015110000, C12N0005040000
(31) Priority Document No	:61/785,268
(32) Priority Date	:14/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/023648 :11/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9480/DELNP/2015 :12/10/2015

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4)OUFATTOLE, Mohammed
5)PETERSEN, Michael, W.

(57) Abstract :
The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising a recombinant DNA molecule comprising a DNA molecule operably linked to heterologous transcribable DNA molecule, as are methods of their use.

No. of Pages : 121 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/11/2020

(21) Application No.202018052063 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :RNA-DIRECTED DNA CLEAVAGE BY THE CAS9-CRRNA COMPLEX"

(51) International classification	:C12N0009220000, C12N0015100000, C12N0015900000, C12N0015113000, C12P0019340000
(31) Priority Document No	:61/613,373
(32) Priority Date	:20/03/2012
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2013/033106 :20/03/2013
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:7846/DELNP/2014 :19/09/2014

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4)LUBYS, Arvydas
5)ZALIAUSKIENE, Lolita
6)GLEMZAITE, Monika
7)SMITH, Anja

(57) Abstract :
Isolation or in vitro assembly of the Cas9-crRNA complex of the Streptococcus thermophilus CRISPR3/Cas system and use for cleavage of DNA bearing a nucleotide sequence complementary to the crRNA and a proto-spacer adjacent motif. Methods for site-specific modification of a target DNA molecule in vitro or in vivo using an RNA-guided DNA endonuclease comprising RNA sequences and at least one of an RuvC active site motif and an HNH active site motif; for conversion of Cas9 polypeptide into a nickase cleaving one strand of double-stranded DNA by inactivating one of the active sites (RuvC or HNH) in the polypeptide by at least one point mutation; for assembly of active polypeptide-polyribonucleotides complex in vivo or in vitro; and for reprogramming a Cas9-crRNA complex specificity in vitro and using a cassette containing a single repeat-spacer-repeat unit.

No. of Pages : 113 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/11/2020

(21) Application No.202018052099 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR ENZYMATIC TREATMENT OF TISSUE PRODUCTS

(51) International classification	:A61L0027560000, A61L0027360000, C12P0001000000, A61L0027240000, D21C0005000000
(31) Priority Document No	:14/019,274
(32) Priority Date	:05/09/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/054206 :05/09/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617010547 :28/03/2016

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4)XU, Hui
5)LEAMY, Patrick
6)WAN, Hua
7)HUANG, Li Ting
8)SUN, Wenquan

(57) Abstract :
Methods for treating tissue matrices and tissue matrices produced according to the methods are provided. The methods can include treating a tissue matrix with a proteolytic enzyme to produce a desired pliability of the tissue matrix and/or to control the immunogenicity of the tissue matrix. The methods can also comprise performing an assay to determine if contacting the at least one collagen-containing tissue matrix with a proteolytic enzyme has altered the at least one collagencontaining tissue matrix to reduce a human immune response to the tissue matrix. The methods can comprise treatment with alcalase under conditions controlled to produce a desired pliability without unacceptable alteration in collagen structure.

No. of Pages : 44 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/11/2020

(21) Application No.202018052151 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BINDERS AND MATERIALS MADE THEREWITH

(51) International classification	:F16L0059020000, C08F0251020000, B29C0070680000, E04B0001840000, C09D0005080000
(31) Priority Document No	:60/702,456
(32) Priority Date	:26/07/2005
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2006/028929 :26/07/2006
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:3626/DELNP/2015 :28/04/2015

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SWIFT, Brian, Lee
2)XU, Ruijian
3)KISSELL, Ronald, E

(57) Abstract :
Binders to produce or promote cohesion in non or loosely assembled matter. The binders comprise maillard reactants including amine and carbohydrate; optionally a silicon containing compoud and/or a corrosion inhibitor.

No. of Pages : 79 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202018052297 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CONTROLLED RELEASE DOSAGE FORMS FOR HIGH DOSE, WATER SOLUBLE AND HYGROSCOPIC DRUG SUBSTANCES

(51) International classification	:A61K0009200000, A61K0009280000, A61K0031400000, A61K0009240000, A61K0031190000	(71)**Name of Applicant :** **1)JAZZ PHARMACEUTICALS, INC.** Address of Applicant :3170 Porter Drive, Palo Alto, CA 94304, USA U.S.A.
(31) Priority Document No	:61/317,212	(72)**Name of Inventor :** **1)CLARK PATRICK ALLPHIN** **2)JAMES FREDERICK PFEIFFER**
(32) Priority Date	:24/03/2010	
(33) Name of priority country	:U.S.A.	
(86) International Application No Filing Date	:PCT/US2011/029802 :24/03/2011	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filed on	:8310/DELNP/2012 :24/09/2012	

(57) Abstract :
Controlled release dosage forms are described herein. The controlled release formulations described herein provide prolonged delivery of high dose drugs that are highly water soluble and highly hygroscopic. In specific embodiments, controlled release dosage forms for delivery of a drug selected from GHB and pharmaceutically acceptable salts, hydrates, tautomers, solvates and complexes of GHB. The controlled release dosage forms described herein may incorporate both controlled release and immediate release formulations in a single unit dosage form.

No. of Pages : 52 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020

(21) Application No.202018052513 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IMMUNOSUPPRESSANT FORMULATIONS

(51) International classification	:G01N0033940000, A61K0038130000, C07D0205040000, A61K0009280000, A61K0031436000
(31) Priority Document No	:11150431.2
(32) Priority Date	:07/01/2011
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2012/050151 :05/01/2012
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:5722/DELNP/2013 :05/01/2012

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)BOUILLOT, Philippe
2)REYNAUD, Emeric

(57) Abstract :
The present invention relates to a solid phase pharmaceutical composition comprising one or more pharmaceutically acceptable excipients and an active pharmaceutical ingredient ("API") which is a compound of formula A1 or A2 or a pharmacologically acceptable salt, solvate or hydrate thereof, wherein the API is not exposed to a basic compound.

No. of Pages : 41 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/12/2020

(21) Application No.202018052529 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COSMETIC BASE INCLUDING AMIDE ALCOHOL, AND COSMETIC

(51) International classification	:A61Q0019000000, A61K0008420000, C09K0003000000, A61Q0005120000, A61Q0005100000
(31) Priority Document No	:2016-114276
(32) Priority Date	:08/06/2016
(33) Name of priority country	:India
(86) International Application No Filing Date	:PCT/JP2017/021154 :07/06/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201817049293 :27/12/2018

(71)**Name of Applicant :**
1)KOKYU ALCOHOL KOGYO CO., LTD.
Address of Applicant :Taieikogyodanchi, 641-6, Kichioka, Narita-shi, Chiba 2870225- JAPAN Japan
(72)**Name of Inventor :**
1)INOUE, Takanori
2)MASUNO, Mari

(57) Abstract :
The purpose of the present invention is to provide a novel amide alcohol that can be used as a cosmetic base ingredient. An amide alcohol represented by formula (I).

No. of Pages : 31 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2020

(21) Application No.202018052651 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : REMOTE REGULATOR PRESSURE ADJUSTMENT TOOL AND METHOD USING THE SAME

(51) International classification	:B60T0008170000, B60T0013140000, B60T0017220000, G05D0016100000, B67D0001120000
(31) Priority Document No	:15/488,319
(32) Priority Date	:14/04/2017
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2018/027169 :11/04/2018
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201917034866 :29/08/2019

(71)**Name of Applicant :**
1)LEGACY US LLC
Address of Applicant :El Camino Real #D Menlo Park, CA 94025, United States of America U.S.A.
(72)**Name of Inventor :**
1)DALTON, Jeffrey Travis
2)MCCARTHY, Joseph K.
3)COSTLE, Carey

(57) Abstract :
A pressure regulator 200 with a spring 414 moveably disposed therein, an adjuster cap 500 disposed in said first housing and in physical contact with an end of said spring 414; a pressure regulator adjustment tool 100 for adjusting an output pressure of the pressure regulator 200, comprising: an adjuster piston 114 moveably disposed within the bore 142a of a first housing 110, wherein said adjuster piston 114 comprises a plurality of alignment keys 160 disposed on a distal end thereof and includes a threaded aperture 115 extending inwardly from a proximal end thereof; a rotatable adjustment knob 120 comprising a threaded shaft 122 extending outwardly therefrom; wherein rotating said knob 120 in a first direction causes said adjuster piston 114 to move downwardly in said bore 142a; and rotating said knob 120 in an opposite direction causes said adjuster piston 114 to move upwardly in said bore 142a.

No. of Pages : 41 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202018052862 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR PRODUCING BIPHENYL BENZIMIDAZOLE DERIVATIVE

(51) International classification	:C07D0413140000, C07D0487100000, C08F0012220000, C07J0009000000, C07D0413040000
(31) Priority Document No	:2016-108148
(32) Priority Date	:31/05/2016
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2017/019877 :29/05/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201817048931 :24/12/2018

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SEKI Masahiko
2)IWASAKI Fumiaki
3)YAMAMOTO Hiromasa
4)MORI Hiroyuki
5)TANAKA Kenji
6)SEIKE Yoshiki

(57) Abstract :
[Problem] To provide a production method capable of inhibiting production of byproducts, etc., and improving the yield of a biphenyl benzimidazole derivative which is the intended product. [Solution] A method for producing a biphenyl benzimidazole derivative represented by by reacting, in the presence of a base, a benzimidazole derivative represented by (R 1 represents a C1-6 alkyl group, and R 2 represents a C1-6 alkyl group, a cilexetil group, or a medoxomil group) with a biphenyl compound represented by (R A represents a cyano group or a 1-trityl-1H-tetrazole-5-yl group, and X represents a halogen atom), wherein the reaction is carried out in a reaction solvent containing a branched alcohol represented by (R 3 , R 4, and R 5 each represent a hydrogen atom, a C1-6 alkyl group, or the like. However, two or more groups among R 3 -R 5 would not simultaneously be a hydrogen atom).

No. of Pages : 69 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202018052899 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : LOCALLY REVERSIBLE BARBED SUTURES

(51) International classification	:A61B0017060000, A61L0017000000, H04N0019820000, H01M0010054000, A61L0017120000
(31) Priority Document No	:13/759, 236
(32) Priority Date	:05/02/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/013380 :28/01/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:5776/DELNP/2015 :01/07/2015

(71)**Name of Applicant :**
1)ETHICON, INC
Address of Applicant :U.S. Route 22, Somerville, NJ 08876, USA, U.S.A.
(72)**Name of Inventor :**
1)JASON T. PERKINS
2)MARK T. MOONEY
3)JONATHAN B. GABEL

(57) Abstract :
A wound closure device (330) includes a flexible filament (332) having a first end (334), a second end (336), and a longitudinal axis extending between the first and second ends. A plurality of barbs (338) project outwardly from the flexible filament. Each barb has a base connected with the flexible filament, a blunt tip (344) spaced from the base, a leading edge (340) extending between the base and the blunt tip and facing toward the first end of the flexible filament, and a trailing edge (342) extending between the base and the tip and facing toward the second end of the flexible filament. The trailing edge of the barb and the longitudinal axis of the flexible filament define an angle of at least 68 ° that opens toward the second end of the flexible filament.

No. of Pages : 33 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202018052903 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND PRODUCTION OF A ROTOR BLADE FOR WIND ENERGY PLANT

(51) International classification	:F03D0001060000, B29L0031080000, B29C0065000000, B29C0065500000, B29C0065480000
(31) Priority Document No	:10 2008 030 132.9
(32) Priority Date	:27/06/2008
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2009/004210 :11/06/2009
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:9285/DELNP/2010 :27/12/2010

(71)**Name of Applicant :**
1)Senvion GmbH
Address of Applicant :Überseering 10, D-22297 Hamburg, (DE) Germany
(72)**Name of Inventor :**
1)KULENKAMPFF, Jens
2)FAULKNER, Benn

(57) Abstract :
The invention relates to a method for producing a rotor blade for a wind energy plant, which, in the operationally -ready state runs from a blade root region, for connecting to the rotor hub of the wind energy plant, to a blade tip and is divided into at least two pieces for production thereof. According to the invention, the production of the rotor blade, in particular serial production, may be facilitated and accelerated, wherein the rotor blade is segmented into more than two segments for production, at least for some of said segments, separate moulds for simultaneous separate use are provided and the segments for final production of the rotor blade are joined outside a production mould to give a rotor blade or rotor blade part.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202018052940 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BASE STATION, RADIO TERMINAL, AND METHODS THEREIN

(51) International classification	:H04W0072040000, H04W0028060000, H04W0048080000, H04W0024020000, H04W0074080000
(31) Priority Document No	:2015-217963
(32) Priority Date	:05/11/2015
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2016/004157 :13/09/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201817006988 :13/09/2016

(71)**Name of Applicant :**
1)NEC CORPORATION
Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001, Japan Japan
(72)**Name of Inventor :**
1)FUTAKI, Hisashi

(57) Abstract :
ABSTRACT BASE STATION, RADIO TERMINAL, AND METHODS THEREIN A radio terminal (1) receives from a base station (2) a first value (601) of a first radio resource configuration information element. The first value (601) is associated with normal coverage or with a first coverage enhancement level. The radio terminal (1) derives a second value (604) of the first radio resource configuration information element by converting (603) the first value (601) using a value of a conversion factor (602). The second value (604) is associated with a second coverage enhancement level. It is thus, for example, possible to contribute to reduction of data size necessary for the base station to notify the radio terminal of a plurality of radio resource configurations for a plurality of coverage enhancement levels.

No. of Pages : 59 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202018052985 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR PRODUCING 5-HYDROXYPIPERIDINE-2-CARBOXYLIC ACID

(51) International classification	:C07D0211600000, C07C0309660000, C07C0233470000, C07D0498080000, B29C0065020000
(31) Priority Document No	:2013-272766
(32) Priority Date	:27/12/2013
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2014/084518 :26/12/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201918048557 :27/12/2019

(71)**Name of Applicant :**
1)API CORPORATION
Address of Applicant :13-4, Uchikanda 1-chome, Chiyoda-ku, Tokyo 1010047, Japan Japan
(72)**Name of Inventor :**
1)MURAI, Masato
2)MAEDA, Tomoko
3)HIDAKA, Tsugihiko
4)OHTANI, Takashi
5)TAKEHARA, Jun

(57) Abstract :
A method for producing (2S,5S)/(2R,5R)-5-hydroxypiperidine-2-carboxylic acid indicated by formula (10), the method being characterized in including a step for removing protection from hydroxyl groups in a compound represented by formula (7) and synthesizing a compound represented by formula (8). (In the formula, P indicates a protecting group; R3 indicates an alkyl group having 1-4 carbon atoms; and A indicates an alkyl group having 1-10 carbon atoms, an aryl group having 6-12 carbon atoms, an alkyloxy group having 1-4 carbon atoms, or an aralkyloxy group having 7-20 carbon atoms.) (In the formula, R3 indicates an alkyl group having 1-4 carbon atoms; and A indicates an alkyl group having 1-10 carbon atoms, an aryl group having 6-12 carbon atoms, an alkyloxy group having 1-4 carbon atoms, or an aralkyloxy group having 7-20 carbon atoms.)

No. of Pages : 100 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/12/2020

(21) Application No.202018053022 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :AZOLE COMPOUNDS AS CORROSION INHIBITORS”

(51) International classification	:C23F0011180000, C23F0011080000, C23F0011160000, C23G0001260000, C23C0022680000
(31) Priority Document No	:61/802,613
(32) Priority Date	:16/03/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/026019 :13/03/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:8930/DELNP/2015 :29/09/2015

(71)**Name of Applicant :**
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Address of Applicant :12780 San Fernando Road, Sylmar, California 91342, United States of America U.S.A.
(72)**Name of Inventor :**
1)MORRIS, Eric L.

(57) Abstract :
ABSTRACTAZOLE COMPOUNDS AS CORROSION INHIBITORS” A composition for application to a metal substrate comprises a metal cation, an azole compound and an aqueous carrier. A composition for coating a substrate comprises a carrier comprising an epoxy carrier, a urethane carrier, or a fluorinated urethane carrier, and an azole compound. A coated substrate includes the composition for application to a metal substrate and a coating on the composition. A method of fabricating a coated substrate comprises applying the composition to a substrate, allowing the composition to dry to form a conversion coating, and applying a coating on the conversion coating.

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202018053353 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :AN IMPLANTABLE SUPPORT IMPLANTABLE IN A NEOPHALLUS TO SUPPORT A NEOPENIS"

(51) International classification	:A61N0001375000, A61N0001372000, A61M0039020000, A61N0001378000, A61F0002020000
(31) Priority Document No	:62/405,300
(32) Priority Date	:07/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/DK2017/050332 :06/10/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201917013845 :05/04/2019

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)POUCHER, NEAL
2)WITZMANN, MICHAEL M.
3)MOSCHEL, MARK A.
4)DANIEL, GEOFFREY A.
5)TAYLOR, JEFFREY BRIAN
6)CLEGG, JOHN
7)ALLEN, JOHN J.
8)ZHANG, WEI
9)CRABB, RACHAEL ANNE BERGSTROM
10)DEITCH, SARAH J
11)KUBALAK, THOMAS
12)HEKTNER, MICHAEL B.
13)KNOP, STEVE
14)TASCHE, VINCENT

(57) Abstract :
Implantable apparatuses and method of implanting the apparatuses are disclosed that provide a person with a neopenis including a penile prosthetic (1050) implanted into a neophallus. The neopenis is situated anatomically in a position of that of a location for a penis of a natal male. The neopenis is suitable for penetrative intercourse.

No. of Pages : 173 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202018053358 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PHARMACEUTICAL COMPOSITION FOR THE PREVENTION OR TREATMENT OF NON-ALCOHOLIC FATTY LIVER DISEASE

(51) International classification	:A61K0038280000, A61K0038260000, C07K0014605000, C07K0016180000, A61K0047680000
(31) Priority Document No	:10-2012-0024632
(32) Priority Date	:09/03/2012
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2013/001897 :08/03/2013
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:6694/DELNP/2014 :08/08/2014

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LIM, Se Young
2)PARK, Sung Hee
3)SHIN, Ryoung Ae
4)CHOI, In Young
5)KWON, Se Chang

(57) Abstract :
The present invention relates to a pharmaceutical composition for the prevention and treatment of non-alcoholic fatty liver disease (NAFLD), including a conjugate prepared by covalently linking an insulinotropic peptide, a non-peptidyl polymer and an immunoglobulin Fc region. The composition of the present invention maintains the in-vivo activity of the peptide at a relatively high level, and remarkably increases the blood half-life, thereby preventing triglyceride accumulation which is a typical feature of non-alcoholic fatty liver disease. Ultimately, it can be desirably employed for the prevention and treatment of non-alcoholic fatty liver disease.

No. of Pages : 26 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202018053376 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PRINTING INKS AND COATING COMPOSITIONS FOR POLYETHYLENE COATED BOARD

(51) International classification	:C09D0011030000, C09D0133080000, C09D0133000000, C09D0011100000, C09D0011107000
(31) Priority Document No	:62/039560
(32) Priority Date	:20/08/2014
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/US2015/045814 :19/08/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717005623 :17/02/2017

(71)**Name of Applicant :**
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Address of Applicant :35 WATERVIEW BOULEVARD PARSIPPANY, NEW JERSEY 07054 USA U.S.A.
(72)**Name of Inventor :**
1)DEIGHTON, Rob
2)SALTHOUSE, Peter
3)BUTLER, Gary

(57) Abstract :
The present invention provides a printing ink or coating composition comprising a self-crosslinking acrylic polymer, a coalescent and a silicone emulsion wherein the self-crosslinking acrylic polymer has a glass transition temperature of greater than 25ºC. Furthermore the present invention also provides a process for preparing a coated substrate, in particular a polyboard substrate and an article made from the coated substrate, such as a milk or juice carton.

No. of Pages : 20 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202018053466 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HOT-ROLLED AND COATED STEEL SHEET FOR HOT-STAMPING, HOT-STAMPED COATED STEEL PART AND METHODS FOR MANUFACTURING THE SAME

(51) International classification	:C22C0038000000, C23C0002120000, C21D0001673000, C22C0038320000, C22C0038060000
(31) Priority Document No	:PCT/IB2016/057100
(32) Priority Date	:24/11/2016
(33) Name of priority country	:PCT
(86) International Application No Filing Date	:PCT/IB2017/057370 :23/11/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201917019983 :20/05/2019

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)HENRION, Thomas
2)JACOLOT, Ronan
3)BEAUVAIS, Martin

(57) Abstract :
A method for manufacturing a hot-rolled and coated steel sheet having a thickness between 1.8 mm and 5 mm, comprising providing a semi-product having a composition comprising: $0.04\% \leq C \leq 0.38\%$, $0.40\% \leq Mn \leq 3\%$, $0.005\% \leq Si \leq 0.70\%$, $0.005\% \leq Al \leq 0.1\%$, $0.001\% \leq Cr \leq 2\%$, $0.001\% \leq Ni \leq 2\%$, $0.001\% \leq Ti \leq 0.2\%$, $Nb \leq 0.1\%$, $B \leq 0.010\%$, $0.0005\% \leq N \leq 0.010\%$, $0.0001\ \% \leq S \leq 0.05\%$, $0.0001\% \leq P \leq 0.1\%$, $Mo \leq 0.65\ \%$, $W \leq 0.30\%$, $Ca \leq 0.006\%$, hot-rolling with a final rolling temperature FRT, to obtain a hot-rolled steel product having a thickness between 1.8 mm and 5 mm, then cooling down to a coiling temperature Tcoil satisfying: $450°C \leq Tcoil \leq Tcoilmax$ with $Tcoilmax=650-140xf\gamma$, Tcoilmax being expressed in degrees Celsius and $f\gamma$ designating the austenite fraction just before the coiling, and coiling to obtain a hot-rolled steel substrate, pickling and coating the hot-rolled steel substrate with Al or an Al alloy by continuous hot-dipping in a bath, to obtain a hot-rolled and coated steel sheet comprising a hot-rolled steel sheet and an Al or an Al alloy coating, having a thickness comprised between 10 and 33 μm, on each side of the hot-rolled steel sheet.

No. of Pages : 59 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/12/2020

(21) Application No.202018053467 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HOT-ROLLED AND COATED STEEL SHEET FOR HOT-STAMPING, HOT-STAMPED COATED STEEL PART AND METHODS FOR MANUFACTURING THE SAME

(51) International classification	:C22C0038000000, C23C0002120000, C21D0001673000, C22C0038320000, C22C0038060000
(31) Priority Document No	:PCT/IB2016/057100
(32) Priority Date	:24/11/2016
(33) Name of priority country	:PCT
(86) International Application No Filing Date	:PCT/IB2017/057370 :23/11/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201917019983 :20/05/2019

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(72)**Name of Inventor :**
1)HENRION, Thomas
2)JACOLOT, Ronan
3)BEAUVAIS, Martin

(57) Abstract :
A method for manufacturing a hot-rolled and coated steel sheet having a thickness between 1.8 mm and 5 mm, comprising providing a semi-product having a composition comprising: $0.04\% \leq C \leq 0.38\%$, $0.40\% \leq Mn \leq 3\%$, $0.005\% \leq Si \leq 0.70\%$, $0.005\% \leq Al \leq 0.1\%$, $0.001\% \leq Cr \leq 2\%$, $0.001\% \leq Ni \leq 2\%$, $0.001\% \leq Ti \leq 0.2\%$, $Nb \leq 0.1\%$, $B \leq 0.010\%$, $0.0005\% \leq N \leq 0.010\%$, $0.0001\ \% \leq S \leq 0.05\%$, $0.0001\% \leq P \leq 0.1\%$, $Mo \leq 0.65\ \%$, $W \leq 0.30\%$, $Ca \leq 0.006\%$, hot-rolling with a final rolling temperature FRT, to obtain a hot-rolled steel product having a thickness between 1.8 mm and 5 mm, then cooling down to a coiling temperature Tcoil satisfying: $450°C \leq Tcoil \leq Tcoilmax$ with $Tcoilmax=650-140xf\gamma$, Tcoilmax being expressed in degrees Celsius and $f\gamma$ designating the austenite fraction just before the coiling, and coiling to obtain a hot-rolled steel substrate, pickling and coating the hot-rolled steel substrate with Al or an Al alloy by continuous hot-dipping in a bath, to obtain a hot-rolled and coated steel sheet comprising a hot-rolled steel sheet and an Al or an Al alloy coating, having a thickness comprised between 10 and 33 μm, on each side of the hot-rolled steel sheet.

No. of Pages : 59 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2020

(21) Application No.202018053505 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ACTIVATOR COMPOSITIONS, THEIR PREPARATION, AND THEIR USE IN CATALYSTS

(51) International classification	:C08F0110020000, C08F0004659200, B01J0021040000, C08F0004020000, B01J0031140000
(31) Priority Document No	:61/639,206
(32) Priority Date	:27/04/2012
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2013/031537 :14/03/2013
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:8959/DELNP/2014 :27/10/2014

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)STEVEN P. DIEFENBACH
2)MIN LI
3)MATTHEW GRANT THORN
4)LUBIN LUO

(57) Abstract :
A process for forming an activator composition, which process comprises, in an inert, anhydrous environment, i) forming a linking-treated support by contacting a support material and a linking compound, ii) contacting said linking-treated support either a) with a polyfunctional compound which has at least two aromatic groups in which at least two of said aromatic groups each has at least one polar monoprotic group thereon, forming a mixture, and then contacting said mixture with an aluminoxane, or b) with an aluminoxane, forming a mixture, and then contacting said mixture with a polyfunctional compound which has at least two aromatic groups in which at least two of said aromatic groups each has at least one polar monoprotic group thereon, or c) with a portion of a polyfunctional compound, forming a first mixture, contacting said first mixture with the aluminoxane, forming a second mixture, and contacting said second mixture with more polyfunctional compound, wherein said polyfunctional compound has at least two aromatic groups in which at least two of said aromatic groups each has at least one polar monoprotic group thereon, wherein the linking compound is an organometallic or a non-organometallic compound, with the proviso that the organometallic compound does not contain aluminum.

No. of Pages : 47 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202018053666 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SURGICAL ARM

(51) International classification	:A61B0034300000, A61B0034000000, A61B0090000000, B25J0009060000, B25J0017020000	(71)**Name of Applicant :** **1)CMR Surgical Limited** Address of Applicant :1 Evolution Business Park, Milton Road, Cambridge, Cambridgeshire CB24 9NG, United Kingdom. U.K.
(31) Priority Document No	:1404065.3	(72)**Name of Inventor :**
(32) Priority Date	:07/03/2014	**1)HARES, Luke David Ronald**
(33) Name of priority country	:U.K.	**2)RANDLE, Steven James**
(86) International Application No Filing Date	:PCT/GB2014/053523 :28/11/2014	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filed on	:201617033968 :04/10/2016	

(57) Abstract :
A surgical robot comprising an articulated arm (10), the arm having a terminal portion comprising: a distal segment (42) having an attachment for a surgical instrument (11); an intermediate segment (34); and a basal segment (21a) whereby the terminal portion is attached to the remainder of the arm; a first articulation (38) between the distal segment and the intermediate segment, the first articulation permitting relative rotation of the distal segment and the intermediate segment about a first axis (43); and a second articulation between the intermediate segment and the basal segment, the second articulation per mitting relative rotation of the intermediate segment and the basal segment about a second axis (29); wherein: the intermediate segment comprises a third articulation (26, 27) permit ting relative rotation of the distal segment and the basal segment about third (41) and fourth axes (35); and the first, second and third articulations are arranged such that in at least one configuration of the third articulation the first and second axes are parallel and the third and fourth axes are transverse to the first axis.

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202018053706 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :MOBILE CLINICS”

(51) International classification	:A61G0003000000, A62B0031000000, E04H0003080000, B60P0003320000, E04H0001120000
(31) Priority Document No	:62/078,924
(32) Priority Date	:12/11/2014
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2015/060169 :11/11/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717016289 :09/05/2017

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)ANANDASABAPATHY, Sharmila
2)MICHEL, Sarah
3)POPPER, Caroline

(57) Abstract :
One aspect of the invention provides a mobile clinic including: an intermodal container defining at least a first opening and a second opening; a partition wall located within the intermodal container, the partition wall separating the intermodal container into an anteroom and a treatment room; and an access control device programmed to prevent passage from the anteroom into the treatment room until a user's donning of personal protective equipment is verified. Another aspect of the invention provides a collapsible structure including: a rigid base; a rigid roof; one or more collapsible walls extending between the floor and the base; and an erector system comprising four cross-bars. Another aspect of the invention provides a crate including: a bottom panel; a top panel; and a plurality of walls, wherein at least two of said plurality of wails including one or more conduits. figure 2

No. of Pages : 37 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202018053763 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN APPARATUS FOR IMMOBILIZING AN ANATOMY OF A PATIENT

(51) International classification	:A61F0005058000, A61B0006040000, A61B0001018000, A61B0005110000, A61B0090000000
(31) Priority Document No	:61/941,542
(32) Priority Date	:19/02/2014
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2015/014090 :02/02/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617027303 :10/08/2016

(71)**Name of Applicant :**
1)QFIX SYSTEMS, LLC
Address of Applicant :440 Church Road, Avondale, PA 19311, USA, U.S.A.
(72)**Name of Inventor :**
1)COPPENS, Daniel D.
2)RABENO, David, M.
3)REISER, Stephen, J.

(57) Abstract :
Systems for immobilizing a patient are disclosed. The system includes at least one preform formed from a low melting temperature thermoplastic, the preform being configured to be formed to the anatomy of the patient, at least one frame coupled to the at least one preform, and at least one support configured to support the anatomy of the patient. The system also includes at least one lock mechanism coupled to at least one of the frame and the support and configured to couple the at least one frame to the at least one support, and at least one adjuster mechanism coupled to at least one of the at least one frame and the at least one support and configured to selectively adjust a distance between the at least one frame and the at least one support while the at least one frame is coupled to the at least one support.

No. of Pages : 59 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202018053764 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN ADJUSTABLE LOCK

(51) International classification	:E05B0063000000, A61G0007050000, B60R0007140000, E05B0063060000, A61G0003080000
(31) Priority Document No	:61/941,542
(32) Priority Date	:19/02/2014
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2015/014090 :02/02/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617027303 :10/08/2016

(71)**Name of Applicant :**
1)QFIX SYSTEMS, LLC
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(72)**Name of Inventor :**
1)COPPENS, Daniel D.
2)RABENO, David, M.
3)REISER, Stephen, J.

(57) Abstract :
Systems for immobilizing a patient are disclosed. The system includes at least one preform formed from a low melting temperature thermoplastic, the preform being configured to be formed to the anatomy of the patient, at least one frame coupled to the at least one preform, and at least one support configured to support the anatomy of the patient. The system also includes at least one lock mechanism coupled to at least one of the frame and the support and configured to couple the at least one frame to the at least one support, and at least one adjuster mechanism coupled to at least one of the at least one frame and the at least one support and configured to selectively adjust a distance between the at least one frame and the at least one support while the at least one frame is coupled to the at least one support.

No. of Pages : 57 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202018053783 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : 2-(PHENYLOXY OR PHENYLTHIO)PYRIMIDINE DERIVATIVES AS HERBICIDES

(51) International classification	:A01N0043540000, C07D0239340000, C07D0233560000, C07D0403120000, C07D0239420000
(31) Priority Document No	:62/171,294
(32) Priority Date	:05/06/2015
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2016/035229 :01/06/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717033547 :01/06/2016

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)DEPREZ, Nicholas Ryan
2)SHARPE, Paula Louise
3)REDDY, Ravisekhara Pochimireddy
4)DEBERGH, John Robbins

(57) Abstract :
Disclosed are compounds of Formula (1), including all stereoisomers, N-oxides, and salts thereof, wherein A, Z, R1, R2, R3 and m are as defined in the disclosure. Also disclosed are compositions containing the compounds of Formula (1) and methods for controlling undesired vegetation comprising contacting the undesired vegetation or its environment with an effective amount of a compound or a composition of the invention.

No. of Pages : 145 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202018053865 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VACCINE COMPOSITION

(51) International classification	:A61K0039000000, A61K0039120000, A61K0039290000, C12N0007000000, A61K0039112000
(31) Priority Document No	:61/767,776
(32) Priority Date	:21/02/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2014/050118 :20/02/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:7820/DELNP/2015 :31/08/2015

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)STOJDL, David F.
2)BELL, John, Cameron
3)LICHTY, Brian
4)POL, Jonathan

(57) Abstract :
There is described a kit for use in inducing an immune response in a mammal, the kit includes: a first virus that expresses MAGEA3, Human Papilloma Virus E6/E7 fusion protein, human Six-Transmembrane Epithelial Antigen of the Prostate protein, or Cancer Testis Antigen 1, or a variant thereof as an antigenic protein and that is formulated to generate an immunity to the protein or variant thereof in the mammal. The kit also includes a Maraba MG1 virus encoding the same antigen, or a variant of the same antigen. The Maraba MG1 virus is formulated to induce the immune response in the mammal. The first virus is immunologically distinct from the Maraba MG1 virus.

No. of Pages : 110 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2020

(21) Application No.202018053976 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD, SYSTEM AND APPARATUS FOR NFC SECURITY

(51) International classification	:H04B0005000000, H04W0004800000, G06Q0020320000, H04W0012060000, A23L0002020000
(31) Priority Document No	:61/715,426
(32) Priority Date	:18/10/2012
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2013/031448 :14/03/2013
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:4805/DELNP/2014 :12/06/2014

(71)**Name of Applicant :**
1)AVERY DENNISON CORPORATION
Address of Applicant :150 N. Orange Grove Blvd., Pasadena, CA 91103, United States of America U.S.A.
(72)**Name of Inventor :**
1)FORSTER, Ian, J.

(57) Abstract :
A method, system and apparatus for providing security to RFID and NFC systems. In some exemplary embodiments, a smart poster may be used to provide appropriate or desired communications with an RFID or NFC-enabled device. Such exemplary embodiments may use an authorized NFC tag to communicate with an NFC-enabled device, and upon activation of the authorized NFC tag, may trigger activation or appearance of one or more related items, such as visual cues. Additionally, aspects of NFC security systems which can include regions of security, states of activity and actions performed when security violations are detected.

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2020

(21) Application No.202018054064 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CHROMIUM (III) CATALYST SYSTEMS WITH ACTIVATOR-SUPPORTS

(51) International classification	:C08F0010020000, C08F0004659200, B01J0031160000, C08F0110020000, C08F0004639200
(31) Priority Document No	:14/151,032
(32) Priority Date	:09/01/2014
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2015/010094 :05/01/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617023477 :08/01/2016

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(72)**Name of Inventor :**
1)MCDANIEL, Max P
2)HLAVINKA, Mark L
3)COLLINS, Kathy S

(57) Abstract :
Methods for preparing supported chromium catalysts containing a chromium (III) compound and an activator-support are disclosed. These supported chromium catalysts can be used in catalyst compositions for the polymerization of olefins to produce polymers having low levels of long chain branching, and with greater sensitivity to the presence of hydrogen during polymerization.

No. of Pages : 75 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202018054393 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :PROTEINS WITH DIAGNOSTIC AND THERAPEUTIC USES"

(51) International classification	:A61L0031160000, C07K0014470000, A61L0031100000, A61L0027340000, A61K0009480000
(31) Priority Document No	:1318170.6
(32) Priority Date	:14/10/2013
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2014/053072 :13/10/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617012147 :06/04/2016

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(72)**Name of Inventor :**
1)HERBERT, Andrew Peter
2)BARLOW, Paul
3)MAKOU, Elisavet

(57) Abstract :
The present invention provides a recombinant protein capable of binding to complement factor H (CFH), and thereby inducing increased binding of C3d and C3b by bound CFH compared to unbound CFH. Methods and medical devices for using utilising the same are also described.

No. of Pages : 107 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202018054401 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WIRELESS EAR BUDS WITH PROXIMITY SENSORS

(51) International classification	:H04R0001100000, A61N0005067000, H02J0050100000, A61J0007000000, A61F0013380000
(31) Priority Document No	:62/233,848
(32) Priority Date	:28/09/2015
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2016/052767 :21/09/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201817009423 :14/03/2018

(71)**Name of Applicant :**
1)APPLE INC.
Address of Applicant :One Apple Park Way, Cupertino, California 95014, United States of America U.S.A.
(72)**Name of Inventor :**
1)SAULSBURY, Ashley, N.
2)MCQUEEN, Travis, J.

(57) Abstract :
Ear buds are provided that communicate wirelessly with an electronic device. To determine the current status of the ear buds and thereby take suitable action in controlling the operation of the electronic device and ear buds, the ear buds may be provided with sensor circuitry. The sensor circuitry may include proximity sensors. The ear buds may each have a housing with a main body portion that is configured to be inserted into the ear of the user and an elongated stem portion that extends from the main body portion. The proximity sensors may include sensors on the main body and sensors on the stem. The proximity sensors may be light-based sensors that emit light that passes through the housing.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202018054405 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : T CELL RECEPTORS

(51) International classification	:C07K0014725000, C12Q0001688100, G01N0033500000, A61K0031440600, C12N0005090000
(31) Priority Document No	:1313377.2
(32) Priority Date	:26/07/2013
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2014/052199 :18/07/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617000385 :05/01/2016

(71)**Name of Applicant :**
1)ADAPTIMMUNE LIMITED
Address of Applicant :101 Park Drive Milton Park Abingdon Oxfordshire OX14 4RY, United Kingdom U.K.
(72)**Name of Inventor :**
1)MOLLOY, Peter
2)PUMPHREY, Nicholas

(57) Abstract :
The present invention relates to T cell receptors (TCRs) which bind the HLA-A2 restricted FMNKFIYEI (158-166) peptide epitope derived from α Fetoprotein (AFP). Certain preferred TCRs of the invention demonstrate excellent binding characteristics and specificity profiles for this AFP epitope. T cell receptors of the invention understood at least one TCR alpha chain variable domain and / or at least one TCR beta chain variable domain, the alpha chain variable domain comprising an amino acid sequence that has at least 90% identity to the sequence of amino acid residues 1- 112 of SEQ ID No: 2, and / or the beta chain variable domain comprising an amino acid sequence that has at least 90% identity to the sequence of amino acid residues 1- 112 of SEQ ID No: 3.

No. of Pages : 72 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/12/2020

(21) Application No.202018054407 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ELECTRONIC DEVICE DISPLAY WITH EXTENDED ACTIVE AREA

(51) International classification	:G09G0003360000, G06F0001160000, H04M0001020000, G06F0003041000, G09G0003320800
(31) Priority Document No	:62/233,923
(32) Priority Date	:28/09/2015
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2016/048754 :25/08/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201817010698 :22/03/2018

(71)**Name of Applicant :**
1)APPLE INC.
Address of Applicant :One Apple Park Way, Cupertino, California 95014, United States of America U.S.A.
(72)**Name of Inventor :**
1)SILVANTO, Mikael M.
2)MATHEW, Dinesh C.
3)YIN, Victor H.

(57) Abstract :
An electronic device may be provided with a display. The display may be formed from liquid crystal display pixels, organic light-emitting diode pixels, or other pixels. The display may have an active area that is bordered along at least one edge by an inactive area. The active area contains pixels and displays images. The inactive area does not contain any pixels and does not display images. The inactive area may have a layer of black ink or other masking material to block internal components from view. The active area may have an opening that contains an isolated portion of the inactive area or may contain a recess into which a portion of the inactive area protrudes. An electrical component such as a speaker, camera, light-emitting diode, light sensor,

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/12/2020

(21) Application No.202018054447 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NOVEL SALTS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS

(51) International classification	:A61P0037080000, A61P0037060000, A61P0019000000, C07C0229260000, A61K0045060000
(31) Priority Document No	:1402071.3
(32) Priority Date	:07/02/2014
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2015/052242 :04/02/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617025448 :26/07/2016

(71)**Name of Applicant :**
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2)DE FAVERI, Carla
3)SHEIKH, Ahmad

(57) Abstract :
The present invention discloses salts of a Compound I: useful in the prophylaxis and/or treatment of inflammatory conditions, autoimmune diseases, proliferative diseases, allergy, transplant rejection, diseases involving degradation and/or disruption of cartilage homeostasis, congenital cartilage malformations, and/or diseases associated with hypersecretion of IL6 or interferons.

No. of Pages : 77 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/12/2020

(21) Application No.202018054517 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A GLASS-BASED ARTICLE

(51) International classification	:C03C0021000000, C03C0003097000, C03C0003093000, G06F0001160000, B32B0017060000
(31) Priority Document No	:62/194984
(32) Priority Date	:21/07/2015
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2016/043610 :22/07/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:202018006461 :14/02/2020

(71)**Name of Applicant :**
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1)DEMARTINO, Steven Edward
2)FABIAN, Michelle Dawn
3)KOHLI, Jeffrey Todd
4)LYON, Jennifer Lynn
5)SMITH, Charlene Marie
6)TANG, Zhongzhi

(57) Abstract :
The present invention relates to a glass-based article comprising greater than or equal to 40 mol% and less than or equal to 80 mol% SiO2; greater than or equal to 0 mol% and less than or equal to 5 mol% Na2O; less than 2 mol% K2O; a first surface and a second surface opposing the first surface thereby defining a thickness (t) of the glass-based article; a ratio of Li2O (mol%) to R2O (mol%) in the glass-based article is greater than or equal to 0.5 and less than or equal to 1.0, wherein R2O is the sum of Li2O, Na2O, and K2O in the glass-based article; a stress profile comprises a surface compressive stress (CS) and a maximum central tension (CT), wherein: the maximum CT is greater than or equal to 50 MPa and less than or equal to 200 MPa; the maximum CT is positioned within the glass-based article at a range from greater than or equal to 0.4·t and less than or equal to 0.6·t; the surface CS is greater than or equal to 200 MPa and less than or equal to 500 MPa; and a depth of compression (DOC) is from greater than or equal to 0.14·t and less than or equal to 0.25·t, and wherein the glass-based article is a glass-ceramic comprising an amorphous phase and a crystalline phase.

No. of Pages : 101 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/12/2020

(21) Application No.202018054584 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMMUNICATION SYSTEM, COMMUNICATION CONTROL DEVICE, NODE DEVICE AND COMMUNICATION METHOD

(51) International classification	:H04W0028160000, H04N0007150000, H04L0009080000, H04W0072100000, H02M0003070000
(31) Priority Document No	:2015-049573
(32) Priority Date	:12/03/2015
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2016/001219 :07/03/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717032641 :07/03/2016

(71)**Name of Applicant :**
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1)MIZUKAMI, Daisuke
2)ONISHI, Shinji
3)EGASHIRA, Kazuhiro
4)SHIGA, Shingo
5)TAMURA, Toshiyuki

(57) Abstract :
The objective of the invention is to provide a communication system wherein mobile management entities (MMEs) used in call processing can be dynamically changed in accordance with the load conditions and the like of the MMEs. A communication system of the present invention comprises communication control devices (10-12) and a node device (20) that executes call processing related to the communication control devices (10-12) and a communication terminal. The communication control devices (10-12) form a context sharing group that shares the subscriber data of the communication terminal. The node device (20) selects a first communication control device in the context sharing group and transmits a call processing message to the first communication control device. The first communication control device executes the call processing by use of the subscriber data shared in the context sharing group.

No. of Pages : 75 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202018054726 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : 17A,21-DIESTERS OF CORTEXOLONE FOR USE IN THE TREATMENT OF TUMORS

(51) International classification	:A61K0009000000, A61K0031573000, C07J0005000000, A61K0045060000, A61P0035000000
(31) Priority Document No	:14188063.3
(32) Priority Date	:08/10/2014
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2015/073172 :07/10/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717015511 :02/05/2017

(71)**Name of Applicant :**
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Address of Applicant :Riverside II, Sir John Rogerson's Quay, Dublin 2, Ireland Ireland
(72)**Name of Inventor :**
1)GERLONI, Mara

(57) Abstract :
The present invention provides certain cortexolone derivatives of formula (I) and the same for use as antitumor active ingredients for the curative or adjuvant, or neoadjuvant or palliative treatment of precancerous lesions, dysplasias, metaplasias and tumor diseases, including malignant neoplasias and metastasis. Another aspect of the invention relates to pharmaceutical compositions comprising cortexolone derivatives of formula (I) as active ingredients and at least one physiologically acceptable excipient, and to the use of said pharmaceutical compositions as antitumor medicinal products.

No. of Pages : 101 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2020

(21) Application No.202018054727 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : 17A,21-DIESTERS OF CORTEXOLONE FOR USE IN THE TREATMENT OF TUMORS

(51) International classification	:A61K0009000000, A61K0031573000, C07J0005000000, A61K0045060000, A61P0035000000
(31) Priority Document No	:14188063.3
(32) Priority Date	:08/10/2014
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2015/073172 :07/10/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717015511 :02/05/2017

(71)**Name of Applicant :**
1)COSMO TECHNOLOGIES LTD
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1)GERLONI, Mara

(57) Abstract :
The present invention provides certain cortexolone derivatives of formula (I) and the same for use as antitumor active ingredients for the curative or adjuvant, or neoadjuvant or palliative treatment of precancerous lesions, dysplasias, metaplasias and tumor diseases, including malignant neoplasias and metastasis. Another aspect of the invention relates to pharmaceutical compositions comprising cortexolone derivatives of formula (I) as active ingredients and at least one physiologically acceptable excipient, and to the use of said pharmaceutical compositions as antitumor medicinal products.

No. of Pages : 101 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2020

(21) Application No.202018054920 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CRYSTALLINE FORMS OF TENOFOVIR ALAFENAMIDE

(51) International classification	:C07F0009656100, A61K0031675000, A61K0009000000, A61K0009240000, A61K0009280000
(31) Priority Document No	:62/452,428
(32) Priority Date	:31/01/2017
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2018/015770 :29/01/2018
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201917032116 :08/08/2019

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(72)**Name of Inventor :**
1)LAI, Chiajen
2)SHI, Bing
3)STRICKLEY, Robert, G.

(57) Abstract :
The present invention relates to novel crystalline forms of salts and/or co-crystals of tenofovir alafenamide, the pharmaceutical formulations, and the therapeutic uses thereof in treating viral infections.

No. of Pages : 117 No. of Claims : 68

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202018055149 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ELECTRONIC TRANSACTION SECURITY SYSTEM AND METHOD

(51) International classification	:G06Q0020380000, G06Q0020400000, G06Q0020120000, G06Q0020420000, G06F0009451000
(31) Priority Document No	:61/248,722
(32) Priority Date	:05/10/2009
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2010/051524 :05/10/2010
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:3242/DELNP/2012 :16/04/2012

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LUDWIK, F. ZON
2)RONALD, W. SANDSTROM

(57) Abstract :
A system and method for generating a limited use login credential associated with an account maintained by an institution, where the credential facilitates secure access to the account.

No. of Pages : 51 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202018055188 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR THE TREATMENT OF MEIBOMIAN GLAND DYSFUNCTION

(51) International classification	:A61K0009000000, A61K0031190000, A61F0007000000, A61K0009060000, A61B0018040000
(31) Priority Document No	:62/065,716
(32) Priority Date	:19/10/2014
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2015/002164 :16/10/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201717015162 :28/04/2017

(71)**Name of Applicant :**
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1)ALSTER, Yair
2)RAFAELI, Omer
3)MACFARLANE, K., Angela
4)REICH, Cary
5)AMSELEM, Shimon
6)FRIEDMAN, Doron

(57) Abstract :
Described herein are compositions and methods for the treatment of meibomian gland dysfunction. Said compositions and methods including keratolytic agents, such as salicylic acid, selenium disulfide, or the like. Topical administration of said compositions to the eyelid margin or surrounding areas provides therapeutic benefit to patients suffering from meibomian gland dysfunction.

No. of Pages : 30 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202018055219 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :METHANE OXIDATION CATALYST AND METHOD OF USING SAME"

(51) International classification	:B01D0053940000, B01J0037020000, B01J0035000000, B01J0023440000, B01J0023630000
(31) Priority Document No	:62/254,241
(32) Priority Date	:12/11/2015
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2016/051209 :19/10/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201817017261 :08/05/2018

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(72)**Name of Inventor :**
1)CARAVAGGIO, Gianni
2)NOSSOVA, Lioudmila

(57) Abstract :
Provided herein is a methane oxidation catalyst having a support comprising alumina doped with lanthanum and comprising platinum and palladium as active phases. The platinum and palladium are present in the catalyst at an amount effective for producing an exhaust stream from a natural gas vehicle having reduced levels of methane. The catalyst disclosed herein may exhibit improvements in sulfur and water resistance.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202018055244 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RANDOM ACCESS PROCEDURES IN NEXT GENERATION NETWORKS

(51) International classification	:H04W0074080000, H04W0074000000, H04Q0003000000, H04L0005000000, H04L0001160000
(31) Priority Document No	:62/350,379
(32) Priority Date	:15/06/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2017/037658 :15/06/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201817047894 :15/06/2017

(71)**Name of Applicant :**
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3)CHEN, Wei
4)IYER, Lakshmi, R.
5)ZHANG, Qian
6)TSAI, Allan Y
7)ZHANG, Guodong
8)LI, Qing

(57) Abstract :
The application describes an apparatus including a non-transitory memory including instructions to perform random access in a beam sweeping network having a cell. The network includes a downlink sweeping subframe, an uplink sweeping subframe and a regular sweeping subframe. The apparatus also includes a processor operably coupled to the non-transitory memory. The processor is configured to execute the instructions of selecting an optimal downlink transmission beam transmitted by the cell during the downlink sweeping subframe. The processor is also configured to execute the instructions of determining an optimal downlink reception beam from the optimal downlink transmission beam. The processor is further configured to execute the instructions of determining a random access preamble and a physical random access channel (PRACH) resource via resource selection from the optimal downlink transmission beam. The processor is even further configured to execute the instructions of transmitting, to a node, the selected random access preamble via the PRACH resource and an uplink transmission beam of the uplink subframe.

No. of Pages : 143 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020
(21) Application No.202018055260 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POLYMERS AND THE USE THEREOF AS LUBRICATING AGENTS IN THE PRODUCTION OF ALKALI METAL FILMS

(51) International classification	:H01M0010052000, H01M0004360000, C10M0107420000, H01M0004400000, H01M0004134000
(31) Priority Document No	:61/973,493
(32) Priority Date	:01/04/2014
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2015/050256 :31/03/2015
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617032398 :22/09/2016

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1)ZAGHIB, Karim
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3)BOUCHARD, Patrick
4)VERREAULT, Serge
5)HAMEL-PQUET, Julie
6)GIRARD, Gabriel

(57) Abstract :
The present invention relates to polymers used as rolling lubricating agents, to compositions comprising said polymers, and to alkali metal films including the polymers or compositions on the surface(s) thereof. The use of said polymers and compositions is also described for strip-rolling alkali metals or alloys thereof in order to obtain thin films. Methods for producing said thin films, which are suitable for use in electrochemical cells, are also described. The present invention proposes an improved lubricant according to formula I, which, for example, achieves enhanced conductivity, and/or enables the production of electrochemical cells having an improved life span in cycles.

No. of Pages : 33 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020
(21) Application No.202018055273 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANT GENOME MODIFICATION USING GUIDE RNA/CAS ENDONUCLEASE SYSTEMS AND METHODS OF USE

(51) International classification	:C12N0015820000, C12N0015113000, C12N0009220000, C12N0015110000, C12N0015100000
(31) Priority Document No	:61/868,706
(32) Priority Date	:22/08/2013
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2014/051778 :20/08/2014
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:201617008551 :20/08/2014

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4)LI, Zhongsen
5)LIU, Zhan-Bin
6)LYZNIK, L., Aleksander
7)SHI, Jinrui
8)SVITASHEV, Sergei
9)YOUNG, Joshua, K.

(57) Abstract :
Compositions and methods are provided for genome modification of a target sequence in the genome of a plant or plant cell. The methods and compositions employ a guide RNA/Cas endonuclease system to provide an effective system for modifying or altering target sites within the genome of a plant, plant cell or seed. Also provided are compositions and methods employing a guide polynucleotide/Cas endonuclease system for genome modification of a nucleotide sequence in the genome of a cell or organism, for gene editing, and/or for inserting or deleting a polynucleotide of interest into or from the genome of a cell or organism. Once a genomic target site is identified, a variety of methods can be employed to further modify the target sites such that they contain a variety of polynucleotides of interest. Breeding methods and methods for selecting plants utilizing a two component RNA guide and Cas endonuclease system are also disclosed. Compositions and methods are also provided for editing a nucleotide sequence in the genome of a cell.

No. of Pages : 526 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2020

(21) Application No.202018055307 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DEVICE FOR DISTRIBUTING LIQUID IN THE FORM OF DROPS

(51) International classification	:A61F0009000000, B65D0047180000, A61J0001140000, A61M0005168000, A61Q0019000000
(31) Priority Document No	:1158469
(32) Priority Date	:22/09/2011
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2012/052127 :24/09/2012
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filed on	:2074/DELNP/2014 :19/03/2014

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)JULIA, Xavier
2)PAINCHAUD, Gaetan
3)GREVIN, Guillaume

(57) Abstract :
The device (10) included an orifice (16) for distributing drops, said orifice being located on a distribution end and means (40) for visually locating the orifice, through the creation of a demarcation area (40) featuring a color in high contrast to the other elements of the distribution end.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/02/2021

(21) Application No.202114004925 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CAMERA LENS GROUP

(51) International classification	:H04N0007140000, G02B0007020000, H04N0005225000, H05K0003280000, B60R0011040000
(31) Priority Document No	:202010270140.6
(32) Priority Date	:08/04/2020
(33) Name of priority country	:China
(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

(71)**Name of Applicant :**
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2)WENREN, Jianke
3)DAI, Fujian
4)ZHAO, Liefeng

(57) Abstract :
The present disclosure discloses a camera lens group including, sequentially from 5 an object side to an image side along an optical axis, a stop (STO); a first lens (E1) having positive refractive power; a second lens (E2) having negative refractive power; a third lens (E3) having positive refractive power; a fourth lens (E4) having refractive power; a fifth lens (E5) having refractive power; a sixth lens (E6) having positive refractive power; and a seventh lens (E7) having negative refractive power. An aperture 10 number Fno of the camera lens group satisfies: Fno ≤ 1.53. A distance TTL along the optical axis from an object-side surface (S1) of the first lens (E1) to an imaging plane (S17) of the camera lens group and half of a diagonal length ImgH of an effective pixel area on the imaging plane (S17) of the camera lens group satisfy: TTL/ImgH ≤ 1.31.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2021
(21) Application No.202114011554 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :OPTICAL IMAGING LENS ASSEMBLY”

(51) International classification	:G02B0013000000, G02B0013180000, G02B0009640000, G02B0009620000, G02B0015140000
(31) Priority Document No	:202010273251.2
(32) Priority Date	:09/04/2020
(33) Name of priority country	:China
(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

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1)WANG, Xiaofang
2)ZHANG, Kaiyuan
3)DAI, Fujian
4)ZHAO, Liefeng

(57) Abstract :
ABSTRACT OPTICAL IMAGING LENS ASSEMBLY The present disclosure discloses an optical imaging lens assembly including, sequentially from an object side to an image side along an optical axis, a first lens (E1) having negative refractive power; a second lens (E2) having refractive power; a third lens (E3); a fourth lens (E4) having refractive power, a convex image-side surface (S7) and a concave image-side surface (S8); a fifth lens (E5) having refractive power and a concave object-side surface (S9); a sixth lens (E6); and a seventh lens (E7). Half of a diagonal length ImgH of an effective pixel area on an imaging plane (S17) of the optical imaging lens assembly satisfies: ImgH = 5.20 mm. Figure. 1

No. of Pages : 48 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/03/2021

(21) Application No.202114014103 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :SYSTEM AND METHOD FOR CONTROLLING WIND TURBINE CONVERTERS DURING HIGH VOLTAGE RIDE THROUGH EVENTS"

(51) International classification	:H02J0003380000, F03D0007020000, F03D0007040000, F03D0009250000, H02J0003160000
(31) Priority Document No	:16/845,447
(32) Priority Date	:10/04/2020
(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

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(72)**Name of Inventor :**
1)Robert Gregory Wagoner
2)David Scott Wilmer

(57) Abstract :
SYSTEM AND METHOD FOR CONTROLLING WIND TURBINE CONVERTERS DURING HIGH VOLTAGE RIDE THROUGH EVENTS A method for controlling a power converter of a wind turbine power system connected to an electrical grid. The wind turbine power system has a generator and the power converter has rotor-side converter and a line-side converter. The method includes monitoring an electrical parameter of at least one of the wind turbine power system or the electrical grid. In response to detecting a transient event in the electrical grid, the method includes temporarily disabling the line-side converter of the power converter from the electrical grid. Either during the transient event or after the transient event is over, the method includes implementing a control action for the lineside converter of the power converter. Further, the method includes enabling the lineside converter of the power converter to the electrical grid

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/03/2021
(21) Application No.202114014580 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SQUEEZABLE HYBRID WATER BOTTLE WITH INTEGRATED FILTER AND METHOD OF FORMING THE SAME

(51) International classification	:A45F0003160000, B65D0035100000, A45F0003200000, B01D0015000000, B65D0035440000
(31) Priority Document No	:16/842,439
(32) Priority Date	:07/04/2020
(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

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1)RAJAN, Pasupathicoil, Ramaswamy Soundar
2)RAJAN, Sowmya, Soundar

(57) Abstract :
SQUEEZABLE HYBRID WATER BOTTLE WITH INTEGRATED FILTER AND METHOD OF FORMING THE SAME ABSTRACT A method of forming a hybrid, hand-held drinking bottle includes connecting a top 5 element to a bottom element to form a seam therebetween. The top element includes a top wall extending around a top axis, and a top opening extending within the top element between opposed ends of the top wall. The top element is formed from a material that is of a first hardness. The bottom element comprises an end wall, a bottom wall extending around a bottom axis, and a bottom opening extending 10 between the end wall and an opposing end of the bottom wall. The bottom element is formed from a material that is of a second hardness less than the first hardness. The top opening is in communication with the bottom opening when the top element is connected to the bottom element. The method further includes over molding a collar around the seam.

No. of Pages : 38 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2021

(21) Application No.202114014913 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POURING APPARATUS

(51) International classification	:B22D0041060000, B22D0037000000, B22D0041010000, B22D0041050000, G01N0035040000
(31) Priority Document No	:2020-069996
(32) Priority Date	:08/04/2020
(33) Name of priority country	:Japan
(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

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(72)**Name of Inventor :**
1)NISHIDA Tadashi

(57) Abstract :
POURING APPARATUS A pouring apparatus (1) pouring molten metal into aligned molds includes a first bogie (11), a transverse drive unit (12) causing the first 5 bogie (11) to move in an alignment direction of the molds, a second bogie (14) disposed above the first bogie (11), a front-back drive unit (15) causing the second bogie (14) to move in a front-back direction, a frame (16) provided above the second bogie (14), a holding furnace (10) supported by the frame (14), having a tapping spout (10a), a tilting shaft 10 (A) extending in the alignment direction, supported by the frame (14), a tilting drive unit (20) causing the holding furnace (10) to tilt around the tilting shaft (A); and a guide trough (30) extending in the front-back direction, provided at the frame (16) to be located in front of the tapping spout (10a), receiving the molten metal from the holding furnace (10), 15 and guiding the molten metal to a mold sprue cup.

No. of Pages : 28 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2021

(21) Application No.202117016068 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : UTILIZATION EDGE MODULE SERVER SYSTEM AND METHOD

(51) International classification	:H04L0029080000, G06F0009500000, G06F0008610000, G06F0008600000, H04W0084180000
(31) Priority Document No	:62/729272
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050442 :10/09/2019
(87) International Publication No	:WO 2020/055890
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KANE, Douglas Paul
2)MADDEN, John Jerome
3)TEODORO, Jose Lourenco
4)MILLER, Christopher Justin
5)ERICKSON, Brian Kenneth
6)BEVIN, David Paul

(57) Abstract :
Embodiments include a server system including logic of an edge computing device. A network includes a cloud platform able to receive utilization change events from a utilization module, and execution of the program logic results in process steps of a method that include transmitting a plurality of attributes from the cloud platform to the at least one edge computing device, where the plurality of attributes can be associated with a device of a distributed environment coupled to the network. Another step includes receiving from the utilization module, by the edge computing device, current utilization data of the device, and a further step includes performing a comparison based on a set of rules or mappings of the attributes, by the edge computing device, of the current utilization data. Finally, based on the comparison, the method includes sending, by the edge computing device, an update to a human-machine-interface module.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2021

(21) Application No.202117016069 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EDGE HMI MODULE SERVER SYSTEM AND METHOD

(51) International classification	:H04L0029080000, H04L0012240000, H04L0012260000, G06F0016270000, G06F0016245800
(31) Priority Document No	:62/729296
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050406 :10/09/2019
(87) International Publication No	:WO 2020/055863
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)TEODORO, Jose Lourenco
2)MADDEN, John Jerome
3)KANE, Douglas Paul
4)SANTOS, Roger
5)BEVIN, David Paul

(57) Abstract :
Some embodiments include a system and method of receiving, by an edge computing device, from a server processor of a cloud platform coupled to a network, human-machine-interface logic associated with a local display of data received from a device of a distributed environment coupled to the network. Further, the system and method includes configuring the edge computing device as a human-machine-interface, coupling a data ingester and establishing a data connection to the distributed environment of the network, operating the data ingester to discover the device and receive data from the device, and processing a local graphical visualization of at least one update to the network.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2021
(21) Application No.202117016070 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SECURE CALLING CONVENTION SYSTEM AND METHODS

(51) International classification	:H04L0029060000, G06F0021120000, G06F0021600000, C22C0038420000, H04L0009000000
(31) Priority Document No	:62/729334
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050446 :10/09/2019
(87) International Publication No	:WO 2020/112206
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)STEELE, Ian Peter George

(57) Abstract :
The present disclosure is directed to systems and methods for protecting software application information that is passed between a caller of an API and the logic contained within the API by using a Secure Calling Convention (SCC). The SCC involves performing a cryptographic operation on the information such that the true nature of the information is obfuscated. The SCC prevents a hacker from using the information to reverse-engineer the software application to behave as desired.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016090 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTIBODY LIBRARY AND METHOD

(51) International classification	:C07K0016000000, C12N0015100000, G01N0033680000, C07K0016320000, G16B0035000000
(31) Priority Document No	:1817188.4
(32) Priority Date	:22/10/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053010 :22/10/2019
(87) International Publication No	:WO 2020/084298
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)MACCANN, Darragh
4)MCGIRR, Leona
5)MORGAN, Hugh
6)CAMPBELL, Natasha
7)MCCLORY, James
8)O'KANE, Anthony

(57) Abstract :
This disclosure relates to methods of generating antibody libraries, antibody libraries produced using such methods, and variant antibodies. Presently, methods of improving antibody binding (affinity maturation assays) require the screening of vast libraries of antibody variants (often >1010) to identify a small fraction of variants with improved characteristics. The present invention involves taking the nucleotide sequence of the framework and complementarity determining region of a target antibody and identifying motifs which would be recognised by deamination somatic hypermutation enzymes. A small library of variants is then created which incorporate one or more of these mutations. It was found that a relatively high proportion of the variants have an increased affinity. The technique of the present invention was demonstrated on the trastuzumab and Cathepsin S antibodies, and the variants produced are also claimed.

No. of Pages : 42 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016091 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HYGIENE ARTICLE COMPRISING A SKIN PROTECTION SHEET WITH WELL POSITIONED OPENING(S)

(51) International classification	:A61F0013495000, A61K0008020000, A61F0013513000, C11D0003370000, A61Q0017000000
(31) Priority Document No	:1814501.1
(32) Priority Date	:06/09/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2019/073716 :05/09/2019
(87) International Publication No	:WO 2020/049109
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)SCHMITZ, Christoph

(57) Abstract :
The present invention relates to the field of hygiene appliances, in particular to a means for reducing soiling of the skin of a wearer upon defecation. In particular, it relates to a hygiene article comprising a skin protection sheet that comprises a discontinuity as a faeces passageway, such as an opening or a slit. In use, the sheet and the discontinuity are urged towards the anus by a pull means and spread open by a spreading means, such that faeces can pass through the discontinuity but are separated from the skin of the wearer elsewhere.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016094 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NITRIC ACID REDUCTION CONVERSION PROCESS

(51) International classification	:C07C0201040000, C07C0203000000, B01J0037180000, B01J0023620000, B01J0008020000
(31) Priority Document No	:201811385277.5
(32) Priority Date	:20/11/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/106834 :20/09/2019
(87) International Publication No	:WO 2020/103556
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LIANG, Bichao

(57) Abstract :
The present invention relates to a nitric acid reduction conversion process, the process involving bringing a raw material gas that is rich in nitric oxide into contact with a raw material liquid containing nitric acid and methanol in a nitric acid reduction reactor, such that an oxidation-reduction reaction occurs in order to convert the nitric acid into methyl nitrite. Compared with the prior art, the present invention improves the nitric acid conversion rate, reduces the pressure drop and also increases the selectivity of the target product methyl nitrite by optimizing the number of reactors in series, the reaction temperature, the feed ratio of the nitric oxide in the raw material gas to the nitric acid in the raw material liquid, and the amount of supplemented methanol.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016115 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RESOURCE SCHEDULING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE

(51) International classification	:H04W0072120000, H04L0029080000, H04W0072100000, H04W0004000000, H04L0012917000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2018/122492 :20/12/2018
(87) International Publication No	:WO 2020/124514
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)XU, Yang

(57) Abstract :
Disclosed are a resource scheduling method, a terminal device, a network device, a computer storage medium, a chip, a computer-readable storage medium, a computer program product, and a computer program. The method comprises: obtaining first information; and determining a resource reservation and/or scheduling strategy of a first network device on the basis of the first information, wherein the first information comprises at least one of the following: service cycle, service type, service arrival window, average packet size, service transmission reserved time window length, time window cycle, service arrival time point and/or allowable error, successful transmission duration of service, and service priority.

No. of Pages : 63 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016117 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTIVIRAL PYRIDOPYRAZINEDIONE COMPOUNDS

(51) International classification	:C07D0471140000, A61P0031120000, C07D0413120000, C07F0009655800, C07D0413060000
(31) Priority Document No	:62/730361
(32) Priority Date	:12/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/001008 :12/09/2019
(87) International Publication No	:WO 2020/053654
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)LU, Peichao
4)RAJAPAKSA, Naomi, Samadara
5)TULLY, David, Charles
6)WANG, Xiaojing, Michael
7)ZHAO, Qian

(57) Abstract :
The invention provides compounds of Formula (I) as described herein, along with pharmaceutically acceptable salts, pharmaceutical compositions containing such compounds, and methods to use these compounds, salts and compositions for treating viral infections, particularly infections caused by herpesviruses.

No. of Pages : 264 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016118 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CHIMERIC ANTIGEN WITH ENHANCED MULTI-IMMUNE FUNCTION THROUGH SPECIFIC BINDING TO TARGET CELL, AND USE THEREOF

(51) International classification	:A61K0039000000, C07K0014725000, C12N0005078300, A61P0035000000, A61K0035170000
(31) Priority Document No	:10-2018-0119294
(32) Priority Date	:05/10/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/013065 :04/10/2019
(87) International Publication No	:WO 2020/071869
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LEE, Woo Ghil

(57) Abstract :
The present invention relates to a chimeric antigen with enhanced multi-immune function through specific binding to a target cell, and a use thereof. Particularly, the present invention relates to: a chimeric antigen in which an immune response-inducing region and a region for inducing specific binding to a target cell are fused, and which has enhanced multi-immune function; a pharmaceutical composition for the prevention or treatment of cancer, comprising the chimeric antigen with enhanced multi-immune function as an active ingredient; a pharmaceutical composition for the prevention or treatment of infectious diseases; an adjuvant composition; and a vaccine composition.

No. of Pages : 54 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016126 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEMS OF FACILITATING INSTRUMENT DELIVERY TO A CATHETER ASSEMBLY

(51) International classification	:A61M0025000000, A61M0025060000, A61M0039060000, A61M0025010000, A61M0039100000
(31) Priority Document No	:62/729310
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/048484 :28/08/2019
(87) International Publication No	:WO 2020/055586
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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3)BLANCHARD, Curtis H
4)CENDAGORTA, John
5)MCKINNON, Austin Jason
6)SPATARO, Joseph
7)CLAVIJO, Cristian

(57) Abstract :
A catheter adapter (12) may include a distal end (22), a proximal end (20), a lumen extending between the distal end and the proximal end, and a side port (18). A central axis of a fluid path (34) extending through the side port may be disposed at an angle with respect to a longitudinal axis of the catheter adapter. The angle may be less than 45°. Additionally or alternatively to the angle being less than 45°, the catheter adapter may include a wedge (46) and/or an insert (52) configured to facilitate instrument delivery to the catheter assembly via the side port.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016136 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PORT FOR A CATHETER FOR SUBCUTANEOUS IMPLANTATION INTO A PATIENT

(51) International classification	:A61M0039020000, A61M0039100000, A61M0039120000, A61M0025000000, A61M0027000000
(31) Priority Document No	:18194042.0
(32) Priority Date	:12/09/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/072554 :23/08/2019
(87) International Publication No	:WO 2020/052940
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)FRESENIUS KABI DEUTSCHLAND GMBH
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(72)**Name of Inventor :**
1)HUTH, Matthias
2)PAPIOREK, Martina

(57) Abstract :
A port (1) for a catheter (2) for subcutaneous implantation into a patient comprises a housing (10), a cavity (110) arranged in the housing (10) for receiving a fluid, a needle-penetrable closure element (13) placed on the housing (10) and penetrable by a puncturing needle (50) for accessing the cavity (110), a connector (12) for connecting the catheter (2) to the port (1), the connector (12) having a shaft portion (121) for receiving the catheter (2) and a flow channel (124) formed in the shaft portion (121) and being in fluid connection with the cavity (110), and a fixing element (14) for fixing the catheter (2) on the connector (12). The fixing element (14) herein comprises a body portion (140), a clamping element (142) protruding from the body portion (140) along a fixing direction (F) and at least one locking element (147) formed on the body portion (140), the at least one locking element (147) holding the fixing element (14) on the housing (10) in a preassembled state and in an assembled state.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016138 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND DEVICE FOR COLLISION PERFORMANCE EVALUATION TEST OF VEHICLE BODY COMPONENT

(51) International classification	:G01M0017007000, G01R0031260000, G01M0007080000, F16F0009320000, G01M0013020000
(31) Priority Document No	:2018-182620
(32) Priority Date	:27/09/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/037764 :26/09/2019
(87) International Publication No	:WO 2020/067244
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KOBIKI Hideaki
3)FUTATSUKA Takayuki
4)SAKAIDANI Tomohiro

(57) Abstract :
The purpose of the present invention is to provide a collision performance evaluation test method and device with which a component collision test that excellently reproduces the state at the time of an actual collision of a vehicle body can be performed, and which enable testing of high-speed ranges and reduce the cost of testing. The present invention is provided with a motion control mechanism comprising a translation control mechanism or a rotation control mechanism on at least one among a support jig that supports one end section of a vehicle body component and a support jig that supports the other end section, wherein the motion control mechanism has: a fixed member fixed to a motion restricting member of the support jig; and a movable member which is movably connected to the fixed member and fixed to the one end section or the other end section of the vehicle body component. A compression member protruding from one among the fixed member and the movable member toward the other is fitted into a guide part, which is formed on the other, extends in the movable direction of the movable member, and has an energy absorbing member disposed therein, and the energy absorbing member is deformed by the motion of the movable member with respect to the fixed member, so that a reaction force in the reverse direction from the moving direction of the movable member is applied to the movable member.

No. of Pages : 25 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016139 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VEHICLE ONBOARD CAMERA

(51) International classification	:B62D0021000000, B60R0019480000, B60G0007000000, B60Q0001068000, H02K0005140000
(31) Priority Document No	:2018-214502
(32) Priority Date	:15/11/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/043877 :08/11/2019
(87) International Publication No	:WO 2020/100741
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)TOKITO, Toshihiro

(57) Abstract :
To provide a vehicle onboard camera in which both compact size and high functionality can be achieved. [Solution] This vehicle onboard camera comprises an optical unit, a frame, a cover member, a holder, and a pair of threaded members. The frame has a flat plate-shaped front wall section that extends along a plane perpendicular to one axis, and a pair of first through-hole sections that are provided in the front wall section. The cover member has a pair of second through-hole sections that neighbor the pair of first through-hole sections to the front thereof in the direction of the one axis. The holder has a retention section that retains the optical unit, a pair of columnar sections that protrude frontward and are inserted into the pair of first through-hole sections and the pair of second through-holes sections from the rear in the direction of the one axis, and a pair of threaded hole sections that are formed facing rearward from tip end sections of the pair of columnar sections. The holder and the cover member are fixed to the frame by inserting the pair of threaded members into the pair of second through-hole sections from the front, and fastening the pair of threaded members to the pair of threaded hole sections.

No. of Pages : 50 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016141 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WHEEL STRUCTURE

(51) International classification	:B60B0027000000, F16D0065100000, G01P0003440000, B60T0008171000, G01P0003488000
(31) Priority Document No	:2018-184519
(32) Priority Date	:28/09/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/026478 :03/07/2019
(87) International Publication No	:WO 2020/066201
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)ISHIZUKA Dai
2)HANDA Akio
3)IKENAGA Toshihiro
4)HONDA Yoshinobu
5)KITAGAWA Hiroki
6)NAKAGAWA Koji

(57) Abstract :
This wheel structure comprises a wheel hub (68) provided with a brake drum (62), and also comprises a sensor ring (78) for constituting a wheel speed sensor. The wheel hub (68) has, provided outside the brake drum (62) in a wheel radial direction, a ring mounting section (82) for mounting the sensor ring (78) thereon. The wheel hub (68) has a flange section (74) provided outside the brake drum (62) in the wheel radial direction, and the ring mounting section (82) is provided to the flange section (74).

No. of Pages : 27 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016143 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HOT-ROLLED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification	:C22C0038020000, C21D0008020000, C22C0038040000, C21D0009460000, C22C0038140000
(31) Priority Document No	:2018-197936
(32) Priority Date	:19/10/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/041313 :21/10/2019
(87) International Publication No	:WO 2020/080552
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)YOKOI Tatsuo
2)SHUTO Hiroshi
3)HAYASHIDA Teruki
4)ANDO Jun
5)SAKAKIBARA Mutsumi

(57) Abstract :
A hot-rolled steel sheet has a specified chemical composition, wherein, when the thickness of the steel sheet is defined ast", a metallographic structure lying between a surface of the steel sheet and a depth t/4 from the surface in the steel sheet contains, in area fractions, 77.0 to 97.0% of bainite or tempered martensite, 0 to 5.0% of ferrite, 0 to 5.0% of pearlite, 3.0% or more of retained austenite, and 0 to 10.0% of martensite, the average crystal particle diameter in the metallographic structure excluding the retained austenite is 7.0 μm or less, the average number density of particles of iron-based carbides each having a diameter of 20 nm or more is 1.0×106 particles/mm2 or more, the tensile strength is 980 MPa or more, and the average Ni concentration in the surface is 7.0% or more.

No. of Pages : 67 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016147 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RIG-I AGONISTS AND METHODS OF USING SAME

(51) International classification	:A61K0039000000, C12N0015117000, A61N0005100000, A61N0005060000, C07K0014470000
(31) Priority Document No	:62/743387
(32) Priority Date	:09/10/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/055394 :09/10/2019
(87) International Publication No	:WO 2020/076948
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)YALE UNIVERSITY
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(72)**Name of Inventor :**
1)PYLE, Anna Marie
2)FEDOROVA, Olga

(57) Abstract :
The present invention provides RIG-I agonists. In certain embodiments, the agonists of the invention can be used to induce a type I interferon response in a cell.

No. of Pages : 51 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016149 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VOLATILE ORGANIC COMPOUND FORMULATIONS HAVING ANTIMICROBIAL ACTIVITY

(51) International classification	:A01N0037020000, A61K0031190000, A01N0037120000, A61K0047440000, A61K0036062000
(31) Priority Document No	:62/738541
(32) Priority Date	:28/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/053604 :27/09/2019
(87) International Publication No	:WO 2020/069407
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)STROBEL, Gary A.
2)BLATT, Bryan

(57) Abstract :
The present subject matter includes novel chemical formulations having antimicrobial, antifungal, antiseptic, and related effect in a wide range of applications for treating or preventing infections as well as treating various surfaces that may become tainted with infectants. In some embodiments, the formulation includes isoamyl hexanoates and at least one of propanoic and/or isobutyric acid.

No. of Pages : 124 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016150 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NON-DAIRY CHEESE ANALOGUE AND PROCESS FOR PREPARATION THEREOF

(51) International classification	:A23L0033210000, C08B0031000000, A23L0013600000, A61Q0005060000, A23L0009100000
(31) Priority Document No	:18203968.5
(32) Priority Date	:01/11/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/079807 :31/10/2019
(87) International Publication No	:WO 2020/089383
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)RAY, Joydeep
2)FERNANDEZ,FARRES, Isabel

(57) Abstract :
The present invention relates to a non-dairy cheese analogue composition comprising dietary fiber; plant protein, lipid and calcium, wherein the composition is devoid of additives. The composition of the invention is devoid of additives comprising modified starches, hydrocolloids, emulsifiers, whitening agents, plasticizers and anti-caking agents. The invention also relates to a method preparing such compositions and uses thereof.

No. of Pages : 12 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016167 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification	:H04W0074080000, H04L0005000000, H04W0072040000, H04L0001180000, H04W0072120000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2018/108410 :28/09/2018
(87) International Publication No	:WO 2020/062058
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MI, Xiang
2)LUO, Zhihu
3)TIE, Xiaolei
4)JIN, Zhe

(57) Abstract :
A communication method and apparatus. The method comprises: a network device performing data demodulation on uplink data sent by a terminal device in pre-configured resources; and the network device sending downlink control information (DCI) to the terminal device, wherein the DCI comprises first indication information; if the demodulation of the uplink data is unsuccessful, or it is determined, according to a data demodulation result, that the terminal device is required to retransmit the uplink data, the first indication information is used for instructing the terminal device to initiate random access or early data transmission (EDT), and retransmit the uplink data, or for indicating that the demodulation of the uplink data is unsuccessful; or, if the demodulation of the uplink data is successful, or it is determined, according to the data demodulation result, that the terminal device is not required to retransmit the uplink data, the first indication information is used for instructing the terminal device to release or deactivate the pre-configured resources.

No. of Pages : 36 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016186 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A PROCESS FOR MAKING A MEAT ANALOGUE PRODUCT

(51) International classification	:A23J0003220000, A23K0010300000, B29C0044340000, A23L0013600000, B29B0011100000
(31) Priority Document No	:62/754306
(32) Priority Date	:01/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/079943 :31/10/2019
(87) International Publication No	:WO 2020/089445
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)FERNANDEZ,FARRES, Isabel
2)RADE-KUKIC, Koraljka
3)SCHOBER, Tilman Johannes

(57) Abstract :
The present invention relates to a process for making a meat analogue product, comprising hydrating a plant extract, preparing a binding agent by mixing dietary fibre and protein, mixing the plant extract and binding agent, and molding into a shape. A meat analogue product made by the process is also provided.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016188 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :WAX FOR TONERS FOR DEVELOPING ELECTROSTATIC IMAGES, AND TONER FOR DEVELOPING ELECTROSTATIC IMAGES CONTAINING THE WAX

(51) International classification	:G03G0009087000, G03G0009080000, A61Q0001060000, A61Q0001100000, A23G0001360000
(31) Priority Document No	:2018-191815
(32) Priority Date	:10/10/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/039434 :07/10/2019
(87) International Publication No	:WO 2020/075660
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WATANABE, Masashi
2)YOSHIMURA, Takeshi
3)ITAKO, Norifumi

(57) Abstract :
The present invention provides: a wax which is used in an electrostatic image developing toner, and consequently enables the toner to have excellent fixability at low temperatures and excellent thermal storage stability, while having improved gloss properties in comparison to conventional electrostatic image developing toners and becoming less susceptible to the occurrence of ultramicroparticles and the occurrence of bleeding of the wax; and an electrostatic image developing toner which contains this wax. A wax for electrostatic image developing toners, which is used in an electrostatic image developing toner, and which is characterized by being an ester wax that is produced by an esterification reaction of pentaerythritol and a monocarboxylic acid, while being also characterized in that: the monocarboxylic acid used for the esterification reaction contains behenic acid, arachidic acid and stearic acid; and the content ratio of the behenic acid is 60-80% by mass, the content ratio of the arachidic acid is 5-15% by mass and the content ratio of the stearic acid is 15-25% by mass, respectively relative to 100% by mass of the monocarboxylic acid.

No. of Pages : 63 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016189 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTIMICROBIAL COMPOSITIONS COMPRISING WOLLASTONITE

(51) International classification	:C08K0005000000, A01N0033120000, A01N0025100000, A61K0008340000, A01N0043800000
(31) Priority Document No	:18306321.3
(32) Priority Date	:05/10/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/076875 :04/10/2019
(87) International Publication No	:WO 2020/070268
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SCHMITZ, Jörg
2)VERSTUYFT, Lieven
3)BOLLARD, Jerome

(57) Abstract :
The present invention relates to an antimicrobial composition comprising wollastonite as the antimicrobial agent booster and uses thereof. The present invention also relates to a paint or a coating composition comprising the antimicrobial composition and an article treated with the antimicrobial composition according to the invention.

No. of Pages : 22 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016190 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MARKERS USEFUL IN ENRICHMENT STRATEGIES FOR THE TREATMENT OF OSTEOARTHRITIS

(51) International classification	:G01N0033680000, G16H0010200000, G06Q0050220000, A61P0019020000, G16H0050500000
(31) Priority Document No	:18193351.6
(32) Priority Date	:10/09/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/074003 :09/09/2019
(87) International Publication No	:WO 2020/053155
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)LADEL, Christoph, H.
2)GUEHRING, Hans
3)BAY-JENSEN, Anne-Christine
4)KARSDAL, Morten
5)QVIST, Per

(57) Abstract :
The present invention relates to pharmacogenetics, more specifically to strategies involving biomarkers associated with the clinical response to a compound before or during treatment of a cartilage disorder, such as osteoarthritis. The present invention more particularly relates to the combination of JSW measurements and level of specific proteins present in the blood, serum, synovial fluid or in the urine, which can be used in strategies such as patients' enrichment in clinical trials, patients' selection strategy before or during treatment or for adapting the treatment of a patient in the frame of treatments for cartilage disorder, such as osteoarthritis.

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016191 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : YARN WINDING MACHINE

(51) International classification	:B65B0061060000, B65H0057000000, B65H0067048000, B26D0007020000, B65H0035060000
(31) Priority Document No	:2018-190594
(32) Priority Date	:09/10/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/031766 :09/08/2019
(87) International Publication No	:WO 2020/075382
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)OKADA, Takehiro
2)BANDO, Shiro
3)HASHIMOTO, Kinzo

(57) Abstract :
The present invention enables a clamp cutter to appropriately guide yarn to a yarn gripper when replacing a completed package with a new bobbin. After cutting and gripping the yarn Y between a yarn feeding unit 11 and a package P, the clamp cutter 50 performs at least a first movement having a backward-moving component so as to move in a direction to extract the yarn from the yarn feeding unit 11, and after the first movement, a second movement having a forward-moving component so as to move in a direction that guides the gripped yarn Y to a yarn gripping unit 28 that is provided on a bobbin holder 22. After the clamp cutter 50 starts the second movement, a control unit 14 rotates a feed roller 16 in the reverse direction until the yarn Y is gripped by the yarn gripping unit, thereby removing slack in the yarn Y.

No. of Pages : 42 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016192 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TEMPORARY WEB SUPPORT FOR WIND TURBINE BLADE ROTATING DEVICE

(51) International classification	:F03D0001060000, B29L0031080000, B29D0099000000, F16D0009080000, F01D0021040000
(31) Priority Document No	:62/729502
(32) Priority Date	:11/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2018/050680 :12/09/2018
(87) International Publication No	:WO 2020/055398
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WARCHOL, Nicholas

(57) Abstract :
Provided herein is a shear web support for wind turbine blade. Particularly, the present disclosure provides a frangible shear web support element that is designed to fail under certain specific conditions. The frangible support(s) enhance the structural rigidity of the shear web, allow for one-step mold closures, and rupture or disconnect once a predetermined condition (e.g. load threshold, load orientation/vector) is applied to the support element.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016194 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ORAL FORMULATIONS OF KAPPA OPIOID RECEPTOR AGONISTS

(51) International classification	:A61K0009480000, A61K0038080000, A61K0009000000, A61K0038120000, A61K0047260000
(31) Priority Document No	:62/731802
(32) Priority Date	:14/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/051002 :13/09/2019
(87) International Publication No	:WO 2020/056249
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WILSON, Bryan, R.
2)O'CONNOR, Stephen, J.

(57) Abstract :
The invention provides formulations for oral delivery of a therapeutic agent wherein the formulation comprises a kappa opioid receptor agonist and an absorption enhancer, the absorption enhancer includes a medium chain fatty acid or a salt of a medium chain fatty acid; and a medium chain fatty acid glyceride. The kappa opioid receptor agonist may be embedded in an oligosaccharide, such as trehalose. Also provided are capsules containing the oral formulations of the kappa opioid receptor agonists and the absorption enhancer of the invention and methods use of these formulations for the prophylaxis and treatment of variety of kappa opioid receptor-associated diseases and conditions such as pain, pruritus and inflammation; the method comprising administering to the mammal the formulation comprising the kappa opioid receptor agonist and an absorption enhancer.

No. of Pages : 64 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016195 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POSITIONING PROFILES FOR PULTRUSIONS IN WIND BLADE SPAR CAPS

(51) International classification	:F03D0001060000, B29L0031080000, B29D0099000000, B29C0070520000, B29C0065540000
(31) Priority Document No	:62/729501
(32) Priority Date	:11/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2018/050673 :12/09/2018
(87) International Publication No	:WO 2020/055396
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)MONIE, Wayne, G.
2)WARCHOL, Nicholas
3)VILLAR, Michael

(57) Abstract :
Provided herein is a spar cap having a profile for guiding and receiving a shear web for wind turbine blade. Particularly, the present disclosure provides a pultruded spar cap having a bond gap feature to maintain a uniform space for distribution of bonding paste between the spar cap and shear web. Also, the spar cap is formed with locating features which guide and receive placement of the shear web.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016211 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTI-TREM-2 AGONIST ANTIBODIES

(51) International classification	:C07K0016280000, A61K0038000000, C07K0014705000, A61K0039000000, A61K0039395000
(31) Priority Document No	:62/729458
(32) Priority Date	:11/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050575 :11/09/2019
(87) International Publication No	:WO 2020/055975
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)HOLTZMAN, David
2)ULRICH, Jason
3)JIANG, Hong

(57) Abstract :
The present disclosure encompasses anti-TREM-2 antibodies that promote TREM-2 activation and methods of using the anti-TREM-2 agonist antibodies therapeutically.

No. of Pages : 59 No. of Claims : 113

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016217 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND SERVER FOR BEST-FIT DATA STORAGE

(51) International classification	:G06F0011070000, G05B0013020000, G06F0016220000, G06Q0010060000, G06Q0010080000
(31) Priority Document No	:62/729362
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050461 :10/09/2019
(87) International Publication No	:WO 2020/055902
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KAMATH, Vinay T.
2)LIE, Shiewun
3)SADIGH, Ali
4)MIDDLETON, JR., Elliott Scott

(57) Abstract :
Some embodiments include computer-implemented method and system operating the method including a first step of receiving input data from an operational historian during a time interval, where the input data is derived from at least a portion of the operational state data. If the time interval has exceeded a specified time interval, then resetting base data values, and outputting stored input data to a computer-readable storage medium of the network. If the time interval has not exceeded a specified time interval, then comparing the input data with base values, and if any of the input data exceeds at least one of the base values, then updating the base values and proceeding to the first step. Further, if any of the input data does not exceed at least one of the base values, then discarding the input data and proceeding to the first step of the method.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016218 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CLOUD AND DIGITAL OPERATIONS SYSTEM AND METHOD

(51) International classification	:G06N0020000000, H04W0004021000, G06Q0010060000, B60K0035000000, G06N0007000000
(31) Priority Document No	:62/729352
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050457 :10/09/2019
(87) International Publication No	:WO 2020/055898
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)AVEVA SOFTWARE, LLC
Address of Applicant :26561 Rancho Parkway S Lake Forest, California 92630 U.S.A.
(72)**Name of Inventor :**
1)FRASER, Darren

(57) Abstract :
The disclosure is directed to a system for integrating and centralizing multiple manufacturing software types into a consolidated platform. The system interfaces with third party software and performs data collection, data analytics, factory controls, virtual modeling, and checklist creation, as well as many other manufacturing applications. Artificial intelligence and machine learning are also integrated into the platform to assist with root cause analysis and increasing production efficiency.

No. of Pages : 25 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016219 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DYNAMIC SUMMARIZATION OF PROCESS DATA SYSTEM AND METHOD

(51) International classification	:G05B0023020000, G05B0019050000, H04L0012240000, H04L0029080000, A61H0003000000
(31) Priority Document No	:62/729345
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050471 :10/09/2019
(87) International Publication No	:WO 2020/055912
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)NATTAMAI RAMDOSS, Arun Kumar
2)KAMATH, Vinay T.
3)BOLOTSKIKH, Alexander Vasilyevich
4)MIDDLETON, JR., Elliott Scott

(57) Abstract :
Some embodiments include a system and method of providing a historian that receives operational state data from a device of an industrial process of a network, where the operational state data is stored as time-series data, and processing at least one data query from at least one user coupled to the network. Based at least in part on the at least one data query and at least one dynamic cycle, at least some of the time-series data is retrieved, where the dynamic cycle is based on at least one tag associated with the time-series data. Further, based at least in part on at least some of the time-series data, at least one graphical representation of one or more tags is displayed, where each tag of the one or more tags represents an attribute of at least one process associated with the at least one device.

No. of Pages : 22 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016220 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VISUALIZATION AND INTERACTION OF 3D MODELS VIA REMOTELY RENDERED VIDEO STREAM SYSTEM AND METHOD

(51) International classification	:H04N0021410000, G06F0008610000, H04N0021422000, G06F0021840000, G01S0007000000
(31) Priority Document No	:62/729307
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050451 :10/09/2019
(87) International Publication No	:WO 2020/055895
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)AVEVA SOFTWARE, LLC
Address of Applicant :26561 Rancho Parkway S Lake Forest, CA 92630 U.S.A.
(72)**Name of Inventor :**
1)STEVENSON, David, Matthew
2)BURTON, Paul, Antony
3)WITCZAK, Mira

(57) Abstract :
The disclosure is directed to systems and methods for local rendering of 3D models which are then accessed by remote computers. The advantage of the system is that extensive hardware needed for rendering complex 3D models is centralized and can be accessed by smaller remote computers without and special hardware or software installation. The system also provides enhanced security as model data can be restricted to a limited number of servers instead of stored on individual computers.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016221 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POWER SUPPLY DEVICE, AND METHOD FOR DETECTING ABNORMALITY IN AC POWER SUPPLY

(51) International classification	:G01R0031400000, H02M0001320000, A24F0047000000, G01R0031000000, G01L0005000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2019/023854 :17/06/2019
(87) International Publication No	:WO 2020/255189
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
Address of Applicant :3-1-1 Kyobashi, Chuo-ku, Tokyo 1040031 Japan
(72)**Name of Inventor :**
1)SHIGETA, Hiroki

(57) Abstract :
A switch (10) is connected between an AC power supply (1) and a load (2). A control device (40) is configured to detect the instantaneous value of a three-phase AC voltage supplied from the AC power supply (1) when the switch (10) is on, and thereby detect an abnormality in the AC power supply (1). The control device (40) estimates, on the basis of the instantaneous value of the three-phase AC voltage detected at a first time and a first threshold value set in advance for the peak value of the three-phase AC voltage, a second threshold value for the instantaneous value of the three-phase AC voltage at a second time having a prescribed time difference relative to the first time. The control device (40) compares the estimated second threshold value and the instantaneous value of the three-phase AC voltage detected at the second time, and thereby detects an abnormality in the AC power supply (1). The control device (40) switches the switch (10) off when an abnormality in the AC power supply (1) is detected.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016223 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : STATE EDGE MODULE SERVER SYSTEM AND METHOD

(51) International classification	:H04L0029080000, G06F0008610000, G06F0009540000, G06K0009000000, G06F0009445000
(31) Priority Document No	:62/729280
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050341 :10/09/2019
(87) International Publication No	:WO 2020/055819
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)AVEVA SOFTWARE, LLC
Address of Applicant :26561 Rancho Parkway S Lake Forest, California 92630 U.S.A.
(72)**Name of Inventor :**
1)KANE, Douglas Paul
2)MADDEN, John Jerome
3)TEODORO, Jose Lourenco
4)MILLER, Christopher Justin
5)ERICKSON, Brian Kenneth
6)BEVIN, David Paul

(57) Abstract :
Embodiments include a server system including logic of an edge computing device. A network includes a cloud platform able to receive state change events from a state module, and execution of the program logic results in process steps of a method that include transmitting a plurality of attributes from the cloud platform to the at least one edge computing device, where the plurality of attributes can be associated with a device of a distributed environment coupled to the network. A further step includes receiving from the state module, by the edge computing device, current state data of the device, and a subsequent step includes performing a comparison based on a set of rules of the attributes, by the edge computing device, of the current state data. Further, based on the comparison, the method includes sending, by the edge computing device, an update to a human-machine-interface module.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016224 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RUBBER COMPOSITION FOR DYNAMIC USES, PRODUCTION METHOD THEREOF, PRODUCTS CONTAINING SAME, AND USES THEREOF

(51) International classification	:B60C0001000000, C08K0003040000, C08L0007000000, C08L0083040000, C08L0101000000
(31) Priority Document No	:18 59354
(32) Priority Date	:09/10/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2019/052377 :08/10/2019
(87) International Publication No	:WO 2020/074821
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)HUTCHINSON
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(72)**Name of Inventor :**
1)LE ROSSIGNOL, Benoit
2)GUO, Laina
3)DUBAA, Marie
4)WOISEL, Patrice

(57) Abstract :
The invention relates to a rubber composition for a mechanical member with a dynamic function, a method for producing said composition, such a member, and the use of a polymer with urethane function. The composition is based on at least one elastomer and comprises a reinforcing filler and the aforementioned polymer dispersed in the elastomer, the composition comprising the product of an in-situ reaction involving thermomechanical mixing of the elastomer with the filler, precursors of the polymer and a chain extender. According to the invention, the composition has a ratio G' 0.5% / G' 20% of storage modulus G' relative to complex shear modulus G that satisfies at least one of the conditions (i) to (v) below, G' 0.5% and G' 20% being measured according to ISO standard 4664 at respective dynamic strain amplitudes of 0.5% and 20% on double-shear test pieces subjected to shear strain of between 0.02% and 50% at the same frequency of 5 Hz and at the same temperature T: (i) G' 0.5% / G' 20% = 1.15 for T = 100° C, (ii) G' 0.5% / G' 20% = 1.40 for T = 65° C, (iii) G' 0.5% / G' 20% = 1.50 for T = 25° C, (iv) G' 0.5% / G' 20% = 1.60 for T = 0° C, (v) G' 0.5% / G' 20% = 2.50 for T = -30° C.

No. of Pages : 37 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016225 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : INTEGRATION OF 3RD PARTY GEOMETRY FOR VISUALIZATION OF LARGE DATA SETS SYSTEM AND METHOD

(51) International classification	:H04N0021233000, A63F0013355000, F16M0013000000, G06F0008610000, H04L0029080000
(31) Priority Document No	:62/729371
(32) Priority Date	:10/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/050283 :10/09/2019
(87) International Publication No	:WO 2020/055779
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)STEVENSON, David Matthew
2)LAURENDINE, Chase
3)BURTON, Paul Antony

(57) Abstract :
A system provides the ability to import large engineering 3D models from a primary 3D rendering software into a secondary 3D rendering software that does not have the tools of the resources to render the larger 3D model on its own. The system uses a plugin to combine 3D data from the two software sources, and then return the combined 3D data to the secondary 3D rendering software. Components of the system can be remote or cloud based, and the system facilitates video streaming of 3D rendered models that can be manipulated on any computer capable of supporting a video stream.

No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016229 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CARD CONNECTOR, CARD SOCKET, AND TERMINAL

(51) International classification	:G06K0007000000, H01R0012710000, G06K0013080000, F02N0011040000, H01R0027020000
(31) Priority Document No	:201811199774.6
(32) Priority Date	:15/10/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/086224 :09/05/2019
(87) International Publication No	:WO 2020/077985
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)ZHANG, Shihao
2)LEI, Gaobing
3)SU, Tien Chieh

(57) Abstract :
A card connector, a card socket, and a terminal. A card connector (100) comprises a plurality of first terminals (110) and one or more second terminals (120). The plurality of first terminals are arranged to form a first card connection region (115) for installing a first card (210), and are used to electrically connect the first card. The one or more second terminals are distributed at the periphery of the first card connection region. The plurality of first terminals and the one or more second terminals together form a second card connection region (125) for installing a second card (220), and are used together to electrically connect the second card. The card connector has a reduced internal space, and facilitates a lighter and thinner design of the card socket and the terminal and an increased degree of integration.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016236 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ULTRASONIC FLOW METER WITH LENS COMBINATION

(51) International classification	:G01F0001660000, B06B0001060000, A61N0007000000, A61M0005240000, F21W0111000000
(31) Priority Document No	:62/742032
(32) Priority Date	:05/10/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/054640 :04/10/2019
(87) International Publication No	:WO 2020/072868
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SAI, Bin
2)LUO, Dong

(57) Abstract :
An ultrasonic flow meter (100) includes a housing (108) for attaching to a fluid pipe (160). A first piezoelectric element (128) coupled to a transmitter (Tx 111) and receiver (Rx 112) is configured to emit ultrasonic waves in an axial direction perpendicular to a horizontal plane defined by the piezoelectric element. A lens combination is in a lower housing portion (108b) positioned radially outside the first piezoelectric element including a refocusing lens (130) that is ring-shaped configured for redirecting received radial ultrasonic waves to travel in an axial direction perpendicular to the horizontal plane and has a thickness profile configured to act as a matching layer for reducing multiple reflections within the lower housing portion. A second lens (140) that is disc-shaped below the refocusing lens is configured for redirecting the radial ultrasonic waves to travel in the axial direction.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202117016237 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PROCESS OF POLYMERIZING TETRA-FUNCTIONAL LONG-CHAIN BRANCHED POLYOLEFIN RESINS

(51) International classification	:C08F0210180000, C08F0002380000, B33Y0010000000, C08F0036040000, C08F0004659000
(31) Priority Document No	:62/738621
(32) Priority Date	:28/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/053524 :27/09/2019
(87) International Publication No	:WO 2020/069362
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)FROESE, Robert D. J.
2)ARRIOLA, Daniel J.
3)STUBBERT, Bryan D.

(57) Abstract :
The present process embodiments for synthesizing long-chain branched copolymers include contacting together one or more C2-C14 alkene monomers, at least one diene or polyene, optionally a solvent, and a multi-chain catalyst. The multi-chain catalyst includes a plurality of polymerization sites and produces at least two polymer chains of the C2-C14 alkene monomers, each polymer chain polymerizing at one of the polymerization sites. The process synthesizes the long-chain branched polymers by connecting the two polymer chains with the diene or polyene, the joining of the two polymer chains being performed in a concerted manner during the polymerization.

No. of Pages : 71 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021
(21) Application No.202117016238 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND SYSTEM FOR USING INFORMATION ABOUT CHANGE TO DESIGN EVOLVABLE COMPOSITIONS OF REUSABLE SOFTWARE COMPONENTS

(51) International classification	:G06F0008360000, G06F0011360000, G06F0030300000, G06F0008200000, G06F0008300000
(31) Priority Document No	:16/167991
(32) Priority Date	:23/10/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/054975 :07/10/2019
(87) International Publication No	:WO 2020/086253
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)BIZNESSLEGION, LLC
Address of Applicant :1726 Waterleaf Drive Sewickley, Pennsylvania 15143 U.S.A.
(72)**Name of Inventor :**
1)HOOVER, Carol L.

(57) Abstract :
A computer-implemented method and system that systematically and analytically uses information about change to design evolvable compositions of reusable software components (modules and other units of software encapsulation) for the development of evolvable software solutions. The invention provides a computerized framework for identifying, capturing, encoding, codifying, learning, verifying, applying, and reusing information acquired through requirements and design analyses to systematically determine compositions of reusable components that localize the impact of expected and feasible or feasible (EFF) change, promote reuse, and thereby can help lower the cost associated with software evolution.

No. of Pages : 118 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2021

(21) Application No.202117016249 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VEGETABLE OIL-DERIVED EPOXY COMPOSITIONS HAVING IMPROVED PERFORMANCE

(51) International classification	:C09D0163000000, C08L0063000000, C08G0059560000, C08G0059500000, C08G0059300000
(31) Priority Document No	:62/757031
(32) Priority Date	:07/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060242 :07/11/2019
(87) International Publication No	:WO 2020/097314
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)ZHANG, Jinwen
2)LIU, Tuan

(57) Abstract :
Embodiments of this invention are directed to bio-based epoxy compositions, and method of their preparation and use. Other embodiments are directed to cured bio-based epoxies, and manufactured articles having bio-based epoxy coatings, adhesives, or composites.

No. of Pages : 32 No. of Claims : 66

A(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/12/2016
(21) Application No.201621043435 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DWT AND GA-PSO HYBRID OPTIMIZATION BASED SYSTEM FOR IMPERCEPTIBLE AND ROBUST AUDIO WATER MARKING

(51) International classification	:G06T0001000000, H04N0021254700, H04N0019360000, A61B0005040000, H04H0020100000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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2)AGARWAL PUJA SHANKARLAL
(72)**Name of Inventor :**
1)AGRAWAL PUJA SHANKARLAL
2)DR. KHURSHID A. A.

(57) Abstract :
The Invention helps in embedding an in-audible watermark by modifying suitable coefficients in the wavelet domain. The system works well with different types of wavelet filters. Better tradeoff between imperceptibility and robustness is achieved by applying GA-PSO based hybrid optimization where PSO is followed by applying GA. This audio watermarking system is robust against noise attacks and compression attacks.

No. of Pages : 4 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/12/2016
(21) Application No.201621044644 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AUTOMATED PROTECTION OF WEB-BASED RECOMMENDER SYSTEM FROM KNOWN-ATTACKS USING HARDCODED PSEUDONYMS

(51) International classification	:G06Q0030020000, D06F0095000000, G06Q0010060000, B32B0027220000, C10M0133120000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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2)PROF. DEEPALI N. PANDE
(72)**Name of Inventor :**
1)PROF DEEPALI N. PANDE
2)PROF MANDA SONDAWLE

(57) Abstract :
The invention helps to promote e-marketing through safe networking of user-clusters. The designed system is fruitful for usage in business-promoting sites. Any system which has an open-air public usage is prone to Cyber-Shilling attack scenario. In such cases, it is a severe requirement of a reliable recommender which preserves the users' ratings from biasing. Plenty of business applications require holding a network of customers. Also the e-commerce platforms have a rush of advertisement from anonymous site's which induces theft of information and hamper their working. Hence, the major requirement of business sites is secured tools promoting user-cluster network and e-marketing along-with reliability as a prime motive. The proposed system is fruitful for usage in any business site.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020
(21) Application No.201921041082 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SUPERPLASTICIZER FORMULATION SUITABLE FOR INCREASING DURABILITY OF CONCRETE STRUCTURES.

(51) International classification	:A61K0009000000, C04B0041000000, A01N0047360000, C12Q0001688300, E04C0005160000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CHAUDHARI, Ramesh
2)PRADHAN, Tanmoya
3)TAMBE, Nikhil

(57) Abstract :
A single pack superplasticizer formulation for increasing durability of concrete structures is provided, based on synergistically co-operative ingredients viz. select special amines, crystalline compounds and glycols in combination with PCE (polycarboxylate ether) mixtures adapted as a superplasticizer for reducing concrete permeability and enhancing overall durability at the same time. Fig. 3

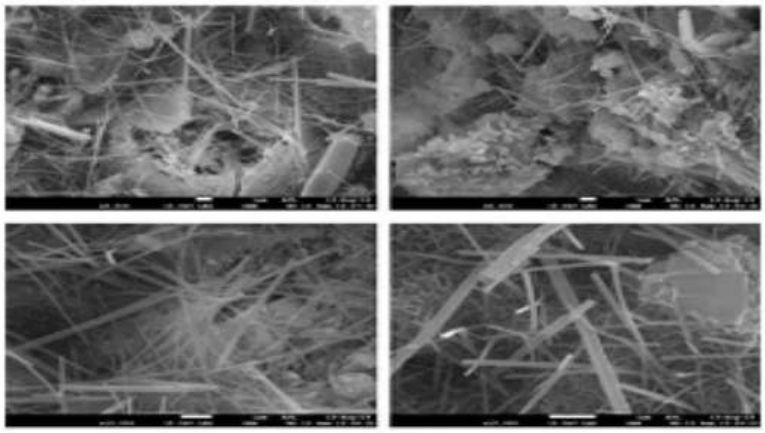


Figure 3

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.201921041169 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :NOVEL DETERGENT FORMULATION FOR WOOL WITH IMMOBILISED ENZYMES"

(51) International classification	:A61Q0005020000, C11D0003386000, C11D0007300000, C09K0003300000, C11D0001900000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)DR. MRINAL RAJESH CHOUDHARI

(57) Abstract :
NOVEL DETERGENT FORMULATION FOR WOOL WITH IMMOBILISED ENZYMES The present invention relates to a novel detergent composition for washing of wool fabric containing immobilised enzyme so as to enhance washing performance of wool apparel and woollen carpet, by replacing conventional detergent with advance detergent as effective stain removal agent. More specifically, the present invention provides a detergent composition comprising surfactant, emulsifier, water, solvent and essential detergent component along with 0.01 to 0.08 % w/w of an immobilized protein enzyme on support matrix wherein weight ratio of enzyme with support matrix is in the range between 1:2 to 1:1 and enzymes are selected from lipase, protease and pectinase to increase their molecular sizes in order to limit the enzymatic degradation of wool fibre to their cuticle scales. Wherein, the immobilization matrix is selected from Sodium Alginate, Silica Nanoparticles, Egg Albumin flakes.

No. of Pages : 31 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

(21) Application No.202021000783 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MODULAR PLANT GROW SYSTEM

(51) International classification	:H05K0007140000, A61B0005220000, B63H0025380000, E04B0002560000, E04H0015500000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Arun Raj

(57) Abstract :
Modular Plant Grow System Disclosed is a modular plant grow system (100) for growing high-value or cash crops in a completely controlled and self-contained environment. The modular plant grow system (100) comprising a top part (1), a bottom part (2), a bezel (3), a plurality of pillars (4), a vessel (5), a light fixture (7) and an electronic module. The system (100) is constituted by an easily collapsible, portable and robust framework, where the upper and lower halves assembles with the mid-section, constituted by upright pillars (4) attached to removable wall plates. The upper and lower halves have fixed or removable bezel frames at both ends which impart strength and structural rigidity to the framework. As the system (100) is collapsible grow system, hence that can be packaged and shipped in smaller boxes. The system (100) ensures automation of various operations to minimize human intervention and provides predictable and consistent yields over time. Figure 1



Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202021013362 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND SYSTEM FOR REAL TIME TRAJECTORY OPTIMIZATION

(51) International classification	:G05B0013040000, G06N0003080000, G06F0017500000, C12M0001360000, G06F0017130000
(31) Priority Document No	:NA
(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

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2)MASAMPALLY, Vishnu Swaroopji
3)RUNKANA, Venkataramana

(57) Abstract :
Trajectory optimization is process of designing a trajectory of operating variables that optimizes measure of performance while satisfying a set of constraints, when the system moves from one state to another. It is very necessary to achieve optimization in real time. A system and method for real-time trajectory optimization has been provided. The trajectory optimization of a process can be performed in any dynamical automated system. The system is configured to optimize the trajectory in both online and offline mode. In the online mode, the system optimizes the trajectory of the process in real-time. The system has the ability to handle both machine learning and deep learning based time series models along with first principles based models represented by ordinary / partial differential equation or differential algebraic equation based dynamic models of the process to estimate process variables given the disturbance profile and the actuation profile of manipulated variables.

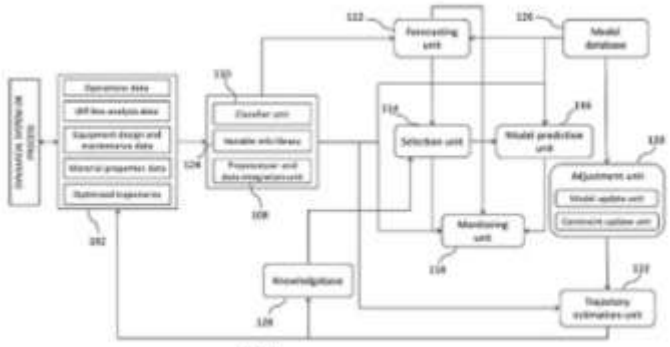


FIG. 2

No. of Pages : 43 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

(21) Application No.202021015201 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DISCHARGE TIPPLER SUPPORT ARRANGEMENT FOR A SIDE DISCHARGE TIPPLER FOR DISCHARGING AT LEAST TWO WAGONS AS WELL AS METHOD FOR DISCHARGING

(51) International classification	:B65G0067000000, B65G0067480000, H04N0001000000, B65B0061280000, F26B0025060000
(31) Priority Document No	:NA
(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

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2)thyssenkrupp AG
(72)**Name of Inventor :**
1)ROY, Indranil
2)BADHE, Rajesh
3)MONDAL, Abdus
4)SHAIKH, Kalim
5)PATIL, Digvijay

(57) Abstract :
The present invention refers to a discharge tippler support arrangement (10) for a side discharge tippler device (100) for discharging at least two wagons (2), wherein the side discharge tippler device (100) comprises or is configured for accommodating: at least one floating platform (103) configured for accommodating at least one or two of the wagons; and at least one hopper (104) for receiving material (1) discharged from the wagons, wherein the at least one hopper is arranged in laterally displaced manner with respect to the at least one floating platform, especially in lateral distance of at least the width of the wagons or the width of the floating platform; wherein the discharge tippler support arrangement (10) comprises at least one support and discharge unit (11) configured for handling and supporting the at least two wagons for lateral displacement such that the at least two wagons can be laterally discharged together to the at least one hopper (104), especially discharged to the same lateral discharge position (P2) for all wagons. Fig. 1

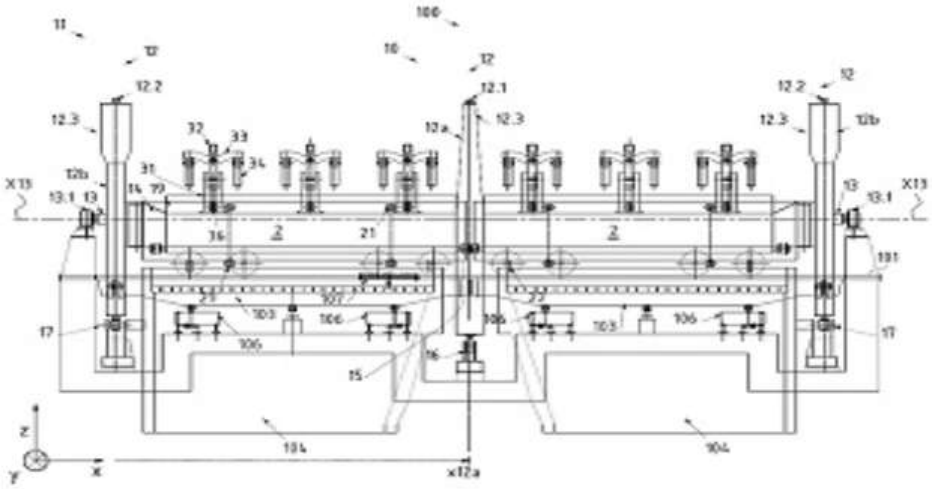


Fig. 1

No. of Pages : 31 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

(21) Application No.202021015249 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ADJUSTABLE ANGLE WATER JET NOZZLE FOR SQUAT TOILET SEAT

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)HEMANT SUDHAKAR GODE

(57) Abstract :
ABSTRACT ADJUSTABLE ANGLE WATER JET NOZZLE FOR SQUAT TOILET SEAT The present invention directed toward an adjustable angle water jet nozzle for squat toilet seat comprises, a mounting base (210) fitted to a top surface of a squad toilet bowl (102), a water jet nozzle block (200) attached to the mounting base (100) with magnetic connection, a valve (205) to control rate of water flow for directing water spray onto the user privet areas, a conduit means (204) for connecting the jet nozzle (202) to a water supply valve (205) and a position handle (203) mounted onto the water jet nozzle. Representative FIG 3

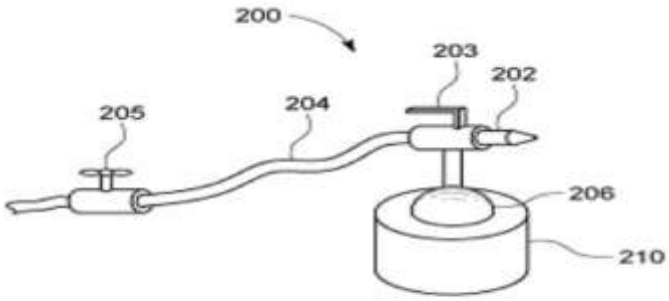


FIG. 3

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

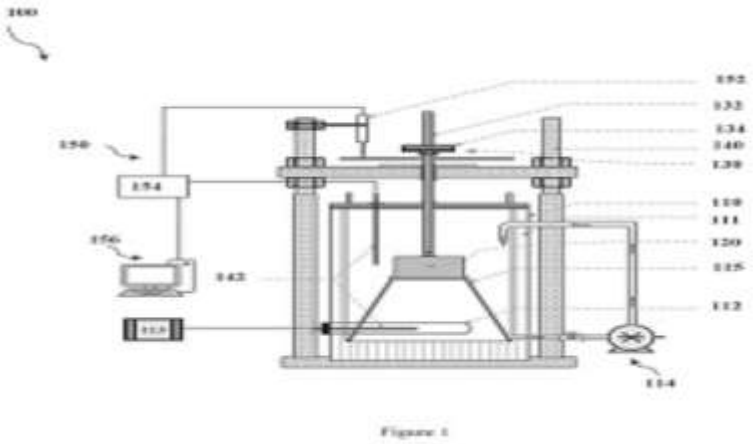
(21) Application No.202021015318 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM FOR ESTIMATING THERMALLY INDUCED VOLUME CHANGE (TIVC) OF SOILS

(51) International classification	:G01N0033240000, G01N0003080000, E21B0049000000, G01N0003560000, G01D0005220000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Singh D.N.
2)Rathi Puneet
3)Mondal Somenath

(57) Abstract :
According to the present disclosure, a system for estimating thermally induced volume change (TIVC) of soils is disclosed. The system comprises a water bath (110), a stand (115) placed inside the water bath (110), an oedometer cell (120) mounted on the stand (115) and a loading assembly (130) placed on the oedometer cell (120). The oedometer cell (120) comprises a soil specimen (125) placed inside an oedometer ring (124) and sandwiched between two filter papers (123) and two porous discs (121, 122). An LVDT (152) mounted on the loading assembly (130) records any vertical displacement of the soil specimen (125) due to the application of load/ thermo-mechanical stress. The system, being a laboratory test setup, establishes and computes thermally induced volume change (TIVC) of soils under various thermo-mechanical stress.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2020

(21) Application No.202021015342 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ONLINE TUNING OF CONTROLLER

(51) International classification	:G05B0013020000, G05B0011420000, A61K0031000000, G10D0003140000, H04N0005500000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Dr. Prabin Kumar Padhy
2)Mr. Bharat Verma

(57) Abstract :
Disclosed is a system and method for fine tuning a PID controller that allows an operator to tune a robustness of the controller by controlling a single variable rather than all three variables as is the case of conventional and existing tuning procedures. The invention allows enhancement in productivity since the tuning of controller, per the present invention, doesn't require to take the controller offline and the tuning can be performed in real-time and online.

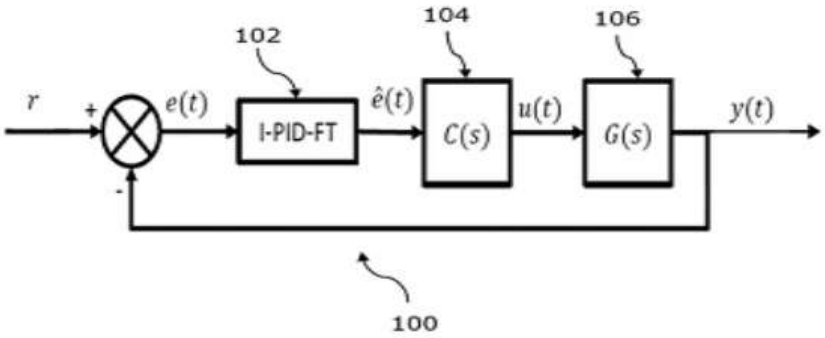


Fig. 1

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

(21) Application No.202021015397 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SILICON (SI) BASED SURFACE MODIFICATION USING PATTERNED TITANIUM (TI) COMPOUNDS"

(51) International classification	:H01L0021823800, H01L0027060000, H01M0004134000, A61L0033060000, C09D0007400000
(31) Priority Document No	:NA
(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

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2)Kumar Appaiah

(57) Abstract :
ABSTRACT Silicon (Si) based surface modification using patterned titanium (Ti) compounds Embodiments herein disclose a method for modifying a silicon (Si) based surface to reduce surface reflections and enhance absorption over a broadband region of wavelength ranging from Ultraviolet (UV) (200 nanometer (nm)) to mid-wavelength infrared (IR) (3300 nm) regions. The Si based surface include at least one of, a Complementary Metal Oxide Semiconductor (CMOS) compatible and biocompatible surface, and a CMOS compatible and biocompatible hydrophobic surface of a Si-based broadband anti-reflective absorber with self-cleaning behavior. The method includes fabricating three dimensional grid like structures of optimized compounds of titanium (Ti) on a n-type Si substrate (n-Si) using an eight step fabrication process, for modifying the Si based surface. The eight step fabrication process includes an RCA cleaning process, deposition, lithography, and annealing. FIG. 1a

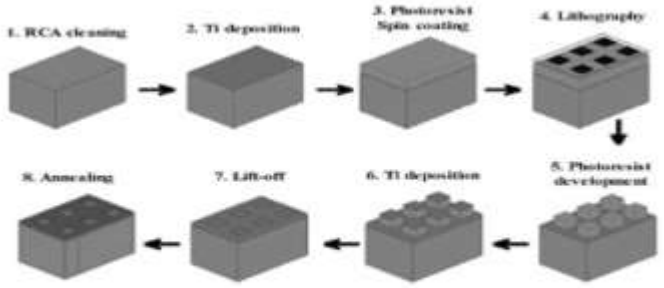


FIG. 1a

No. of Pages : 41 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2020

(21) Application No.202021015489 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ANTI VIRAL INHALER MASK (AVIM)

(51) International classification	:A61M0015000000, A61M0015020000, A47L0009140000, B23K0020000000, A47L0005280000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)DR.LENINA S.V.B.

(57) Abstract :
ABSTRACT: ANTI VIRAL INHALER MASK (AVIM) made up of air permeable material with a cover like structure comprising rectangular and lobe or loop structures with ear and head support and the inner side of the rectangular part has sockets to fix antiviral inhaler substance close to the nostrils of the user, enabling the user to inhale contaminant free air.

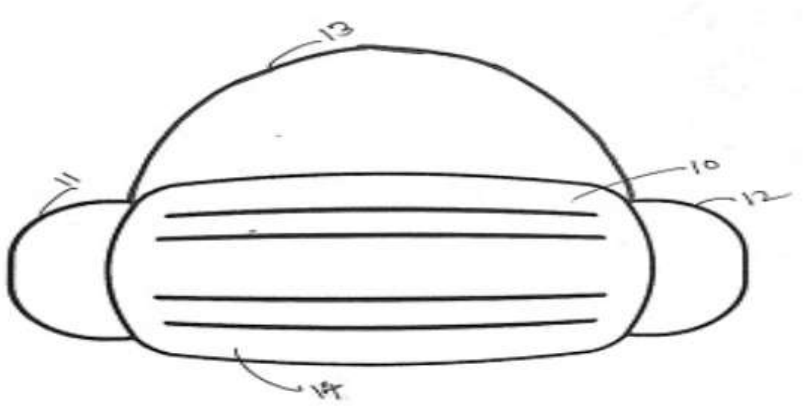


FIG- 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202021015795 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A LIPOSOME MOUTH DISSOLVING TABLET FORMULATION OF DISOPYRAMIDE PHOSPHATE AND NIFEDIPINE

(51) International classification	:A61K0009127000, A61K0031440000, A61K0009200000, A61K0031704000, A61K0008020000
(31) Priority Document No	:NA
(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

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1)JAIN, SANDHYAKUMARI SANTOSHKUMAR
2)DR. RAKESH PATEL

(57) Abstract :
In accordance with the present invention, there is provided an oral liposome mouth dissolving tablet formulation of disopyramide phosphate and nifedipine and process of its preparation. The liposome formulation of present invention is incorporated into a mouth dissolving tablet to provide targeted drug delivery with controlled release profile.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202021015815 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A STACKABLE BED FRAME

(51) International classification	:A61B0005160000, C08L0075040000, B65D0021020000, G10L0015180000, A47C0019020000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)PAREKH, Hiten Vamanrai

(57) Abstract :
ABTRACT A STACKABLE BED FRAME The present disclosure relates to a stackable bed frame (100). The frame (100) has a plurality of legs (10). Each of the legs (10) comprises a wedge-shaped space (20) defined by the legs (10) on an operative bottom portion (110) of the bed frame (100). Each of the legs (10) is configured to be oriented at an inclination (X) to the vertical direction (V). The wedge-shaped space (20) is configured to manually receive the legs (10) of another bed frame (100), thereby allowing a plurality of the bed frames (100) to be stacked on top of each other.

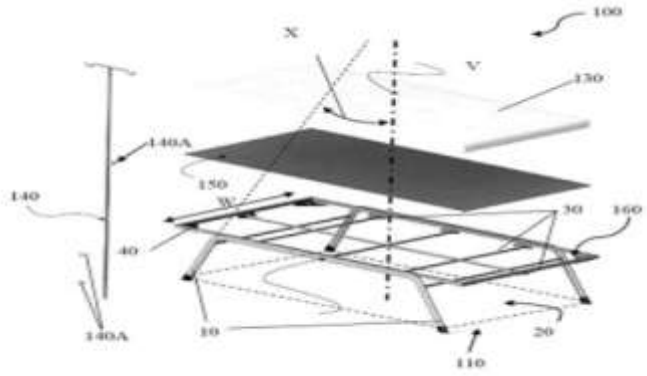


Figure 1

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202021015816 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DOOR HANDLE ASSEMBLY

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
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2)KUNIYIL, Nidhin
3)HONGAL, Nasir

(57) Abstract :
ABSTRACT DOOR HANDLE ASSEMBLY A door handle assembly (100) for securing or holding a door is described having a handle (102), a holding plate (104), a connector (106) and a latch mechanism. The handle (102) is immovably attached to the holding plate (104), by first temporarily coupling a first end (108) of the handle (102) with the holding plate (104) and then permanently fixing the first end (108) of the handle (102) with the holding plate (104). The connector (106) is configured to transfer the movement of the handle (102) to the latch mechanism, where the latch mechanism unlocks the door of the vehicle by a door operating mechanism. FIG. 5

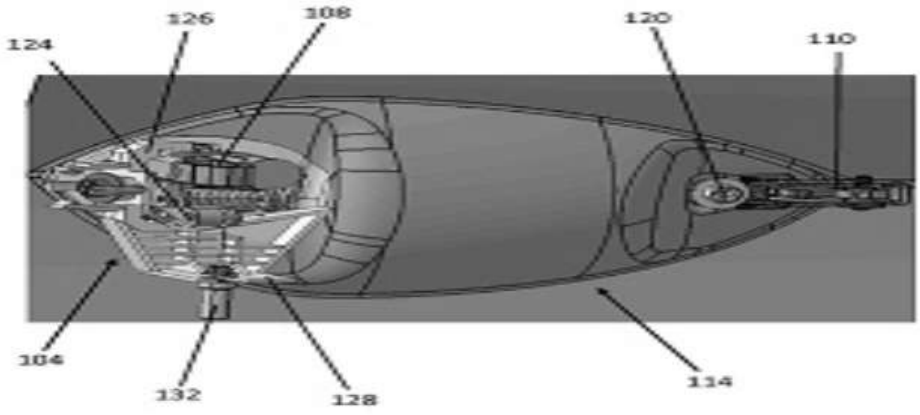


FIG. 5

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2020

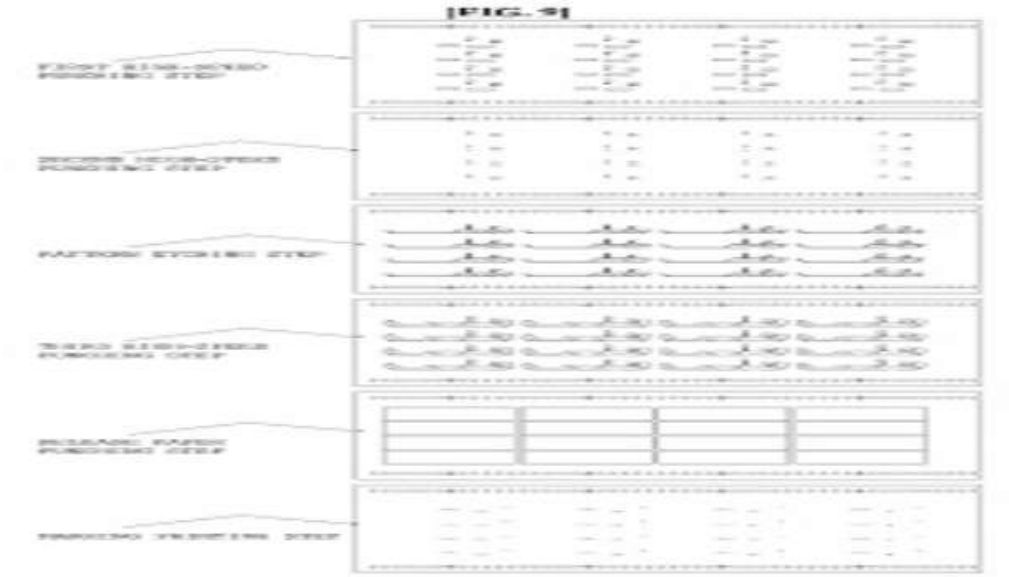
(21) Application No.202024024048 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD OF FABRICATING PRECISE ROLL-TO-ROLL MATERIAL FLEXIBLE PRINTED CIRCUIT BOARD (FPCB) CHARACTERIZED BY BEING INTEROPERABLE WITH HIGH-SPEED PUNCHING MACHINE

(51) International classification	:H05K0001020000, B26D0005000000, H04W0004800000, H05K0003000000, H02H0003087000
(31) Priority Document No	:10-2020-0043690
(32) Priority Date	:10/04/2020
(33) Name of priority country	:Republic of Korea
(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

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2)LEE, Seog Weon
(72)**Name of Inventor :**
1)KIM, Sang Bong
2)LEE, Seog Weon

(57) Abstract :
The present disclosure relates to a method of fabricating a precise roll-to-roll material flexible printed circuit board (FPCB) characterized by being interoperable with a high-speed punching machine. The method of the present disclosure includes a first high-speed punching step; a second high-speed punching step; and a pattern etching step. According to the present disclosure, a fine pattern may be repeatedly formed through high-speed punching, a number of precise patterns may be easily formed at a low fabricating cost using an etching method, and breakage of a pattern due to impact may be prevented. Figure 9 is representative Figure



No. of Pages : 57 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2020

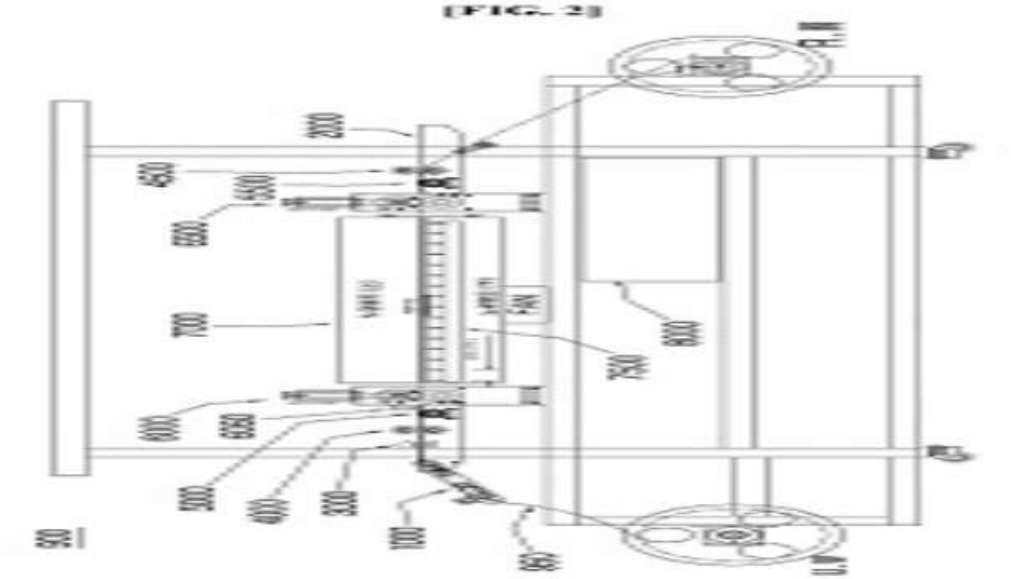
(21) Application No.202024024052 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ROLL-TO-ROLL MATERIAL EXPOSURE SYSTEM INTERLOCKABLE WITH HIGH-SPEED PUNCHING MACHINE AND METHOD OF OPERATING ROLL-TO-ROLL MATERIAL EXPOSURE SYSTEM

(51) International classification	:G03F0007200000, H05K0001020000, H05K0003000000, B65H0005240000, G03F0007039000
(31) Priority Document No	:10-2020-0043689
(32) Priority Date	:10/04/2020
(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

(71)**Name of Applicant :**
1)LEE, Seog Weon
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(72)**Name of Inventor :**
1)LEE, Seog Weon

(57) Abstract :
The present disclosure relates to a roll-to-roll material exposure system interlockable with a high-speed punching machine and a method of operating the roll-to-roll material exposure system. The system of the present disclosure is interlockable with a high-speed punching machine that removes unnecessary portions in a flexible printed circuit board (FPCB) used. The roll-to-roll material exposure system of the present disclosure includes a conveying table; a first foreign matter remover installed at a portion of one end of the conveying table; a first pinhole guide roller installed at the rear end region of the first foreign matter remover; a first roller tension unit installed at the rear end region of the first pinhole guide; and a material exposure unit installed in the middle region of the conveying table while being installed at the rear end region of the first roller tension unit. Figure 2 is Representative figure.



No. of Pages : 60 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202024041196 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DOUBLE-SIDED E-PAPER DISPLAY PANEL, DISPLAY DEVICE AND OPERATING METHOD THEREOF

(51) International classification	:G02F0001167000, G02F0001133300, G02F0001134300, G02F0001136500, G02F0001170000
(31) Priority Document No	:109111732
(32) Priority Date	:08/04/2020
(33) Name of priority country /region	:Taiwan
(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

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1)Wistron Corporation
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(72)**Name of Inventor :**
1)Yao-Tsung CHANG

(57) Abstract :
The present invention provides a double-sided e-paper display panel including a first substrate, a second substrate, a light isolation layer, a first display medium layer, a second display medium layer, a first electrode layer, and a second electrode layer. The second substrate and the first substrate are disposed opposite to each other. The light isolation layer is disposed between the first substrate and the second substrate. The first display medium layer is disposed between the first substrate and the light isolation layer. The second display medium layer is disposed between the light isolation layer and the second substrate. The first display medium layer and the second display medium layer include a fluid and a plurality of charged particles. The first electrode layer is disposed between the first substrate and the first display medium layer. The second electrode layer is disposed between the second display medium layer and the second substrate. Figure No. 5 (To be published)

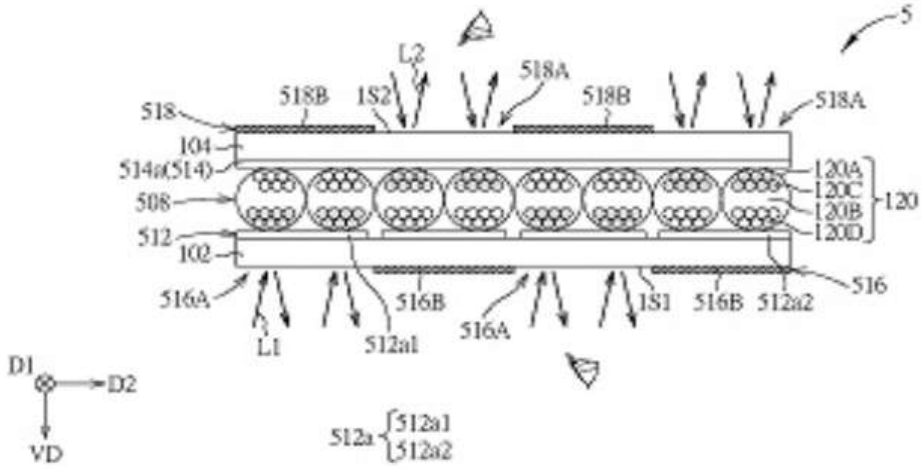


FIG. 5

No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/07/2020

(21) Application No.202027032282 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SUNLIGHT-REFLECTING FILM AND PREPARATION METHOD THEREFOR

(51) International classification	:C23C0014000000, C23C0014350000, C23C0014060000, C03C0017360000, H01L0051560000
(31) Priority Document No	:201910701748.7
(32) Priority Date	:31/07/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/084092 :10/04/2020
(87) International Publication No	:WO 2021/017522
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :No.88, Dongfeng Road, Fenghua District Ningbo, Zhejiang 315500 China
2)NINGBO RUILING ADVANCED ENERGY MATERIALS INSTITUTE CO., LTD.
(72)**Name of Inventor :**
1)YANG, Ronggui
2)XU, Shaoyu
3)WANG, Minghui
4)ZHAI, Huailun
5)YAN, Yulei
6)YIN, Zhengjie
7)ZHAO, Jinling

(57) Abstract :
Provided are a sunlight-reflecting film and a preparation method therefor. The sunlight-reflecting film comprises a matrix and functional layers, with the matrix and the functional layers being arranged in a stacking manner. The functional layers comprise a first reflecting layer, barrier layers, and a second reflecting layer that are sequentially arranged on the matrix in a stacking manner, wherein the barrier layers comprises a first barrier layer and a second barrier layer that are mutually stacked, the first barrier layer is selected from any one of metal fluorides, inorganic nonmetal oxides and metallic oxides, or any combination of same, and the second barrier layer is selected from any one of metallic oxides, metal nitrides and semiconductor doping compounds, or any combination of same, with the type of selected substance of the first barrier layer and the second barrier layer not being completely the same. The preparation method for the above sunlight-reflecting film comprises: providing the matrix; and forming the functional layers on the matrix by using a magnetron sputtering method to obtain the sunlight-reflecting film.

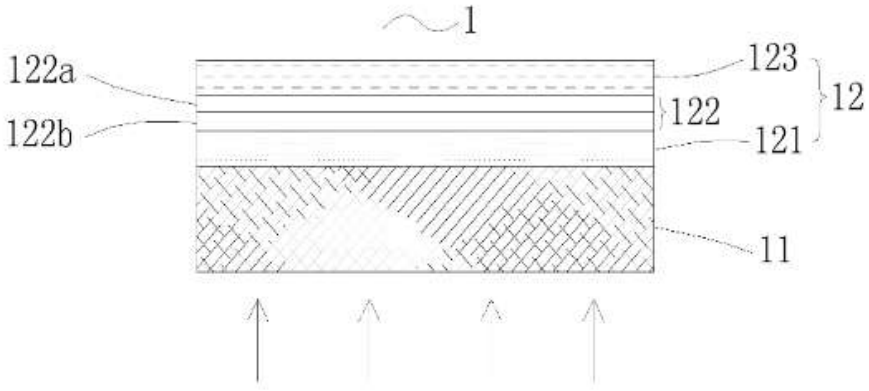


图 1

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/11/2020

(21) Application No.202027051333 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : LIGHT ACTIVATED GASOTRANSMITTER GENERATING COMPOSITIONS

(51) International classification	:A01N0059000000, C11D0003000000, A61K0009060000, A61N0005060000, C11D0003040000
(31) Priority Document No	:62/662573
(32) Priority Date	:25/04/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/028856 :24/04/2019
(87) International Publication No	:WO 2019/209910
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)NOXSANO INC.
Address of Applicant :1275 Kinnear Road Columbus, OH U.S.A.
(72)**Name of Inventor :**
1)WILLEY, Alan
2)SAMUEL, Stevan

(57) Abstract :
A composition comprising an organic photoactivator, a gasotransmitter salt which converts into a gasotransmitter via electron transfer, and an electron donor which donates an electron to the photoactivator when the photoactivator is in a photo-excited state.

No. of Pages : 44 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/11/2020

(21) Application No.202027051412 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMBINATIONS OF OSTEOPONTIN AND 2'-FUCOSYLLACTOSE FOR USE AS MEDICAMENTS

(51) International classification	:G01N0033680000, C07K0016240000, A61K0038200000, A61K0031702000, A61K0038000000
(31) Priority Document No	:PCT/IB2018/000464
(32) Priority Date	:25/04/2018
(33) Name of priority country	:Argentina
(86) International Application No Filing Date	:PCT/IB2019/000297 :24/04/2019
(87) International Publication No	:WO 2019/207355
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)HEALTH AND HAPPINESS (H&H) HONG KONG LIMITED
Address of Applicant :Suites 4007-09 40/F One Island East Taikoo Place 18 Westlands East Road Quarry Bay Hong Kong China
(72)**Name of Inventor :**
1)DUTHEY, Béatrice
2)LANE, Jonathan
3)MALARD, Patrice
4)ZE, Xiaolei

(57) Abstract :
A combination of osteopontin (OPN) and 2'-fucosyllactose (2-FL) is used in the prevention or the treatment of immunological diseases or disorders due to inflammatory factors secretion affecting a human or an animal subject. The said combination is useful, in particular, in the prevention or the treatment of diseases or disorders due cytokine secretion, e.g. INF-, IL-2, IL-4, IL-17, IL-6, IL-10, TGF-ß, Tbet, GATA3 and NFkB and / or immunoglobulin secretion, e.g. IgE and Ig1.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/11/2020

(21) Application No.202027051510 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : FLUORORESIN-CONTAINING BAKEABLE POWDER COATING COMPOSITION AND LIQUID COATING COMPOSITION, AND COATING AND COATED BODY COMPRISING THIS BAKEABLE POWDER COATING COMPOSITION OR LIQUID COATING COMPOSITION

(51) International classification	:C09D0127120000, C09D0127040000, C09D0127180000, C09D0007630000, B01J0020220000
(31) Priority Document No	:2018-121300
(32) Priority Date	:26/06/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/024359 :19/06/2019
(87) International Publication No	:WO 2020/004197
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)NIPPON FUSSO CO., LTD
Address of Applicant :4-6, Mokuzai-dori 2-chome, Mihara-ku, Sakai-shi Osaka Japan
(72)**Name of Inventor :**
1)FUKUMURA, Naoki

(57) Abstract :
(Problem) The present invention addresses the problem of providing a bakeable powder coating composition and liquid coating composition that form, without producing defects such as cracking, a good-quality lining coating that has the properties of an excellent corrosion resistance and an excellent processability while at the same time having a high durability and a high chemical resistance, and providing a coating and coated article comprising this bakeable powder coating composition or liquid coating composition. (Solution) The bakeable powder coating composition comprises a fluororesin in which there is dispersed at least one porous coordination polymer (PCP)/metal-organic framework (MOF) in which an organic ligand and a central metal are coordinatively bonded. FIG. 1

No. of Pages : 31 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/11/2020

(21) Application No.202027051608 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DEEP HOLE DRILL AND DRILLING TOOL HAVING ONE OR MORE DEPRESSIONS IN THE RAKE FACE

(51) International classification	:B23B0051040000, B23B0027140000, B29C0048000000, G06Q0010060000, B44C0005040000	(71)**Name of Applicant :** **1)BOTEK PRÄZISIONSBOHRTECHNIK GMBH** Address of Applicant :Längenfeldstraße 4 Riederich Germany (72)**Name of Inventor :** **1)SCHUR, Gotthold**
(31) Priority Document No	:10 2018 114 139.4	
(32) Priority Date	:13/06/2018	
(33) Name of priority country	:Germany	
(86) International Application No Filing Date	:PCT/EP2019/057070 :21/03/2019	
(87) International Publication No	:WO 2019/238287	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The invention relates to single-lip drills (1) and double-lip drills, in which one or more depressions (37) are formed in the cutting surface (23). The depressions (37) according to the invention are arranged in the longitudinal direction of the tool at a distance from the cutting edge and have a positive influence on chip breaking. Figure 5 is the representative figure.

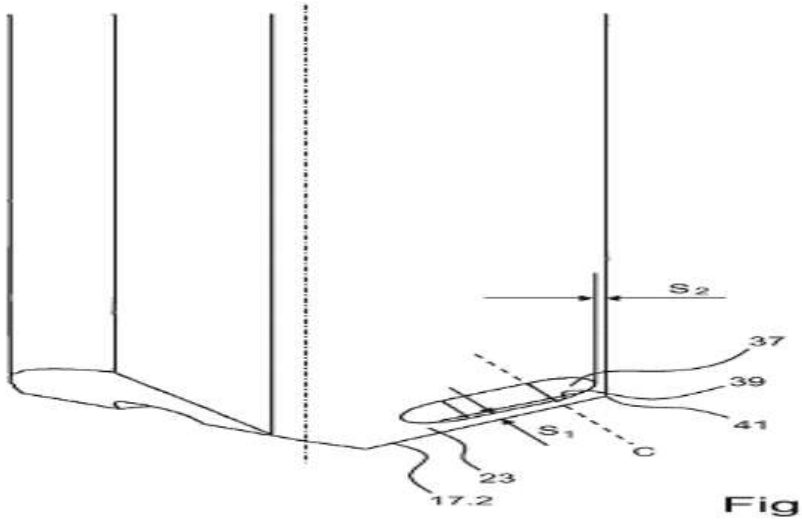


Fig. 5

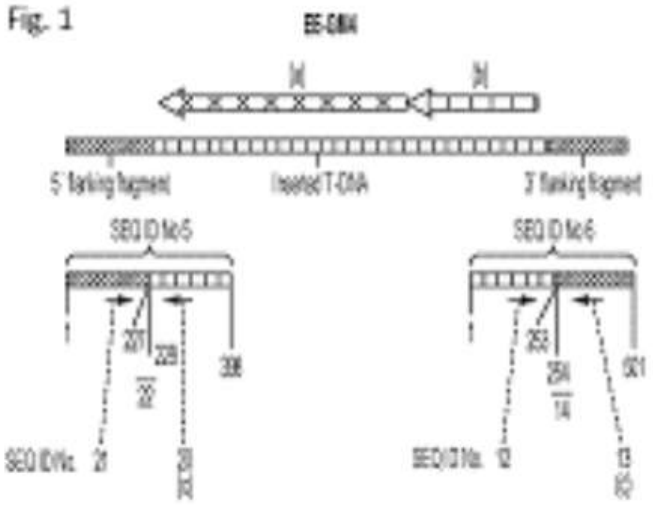
No. of Pages : 20 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020
(21) Application No.202027051739 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANTS CONTAINING ELITE EVENT EE-GM4 AND METHODS AND KITS FOR IDENTIFYING SUCH EVENT IN BIOLOGICAL SAMPLES, AND TREATMENT THEREOF

(51) International classification	:C12N0015820000, C12Q0001689500, A01H0005100000, C12N0009020000, C07K0014000000	(71)**Name of Applicant :** **1)BASF AGRICULTURAL SOLUTIONS SEED US LLC** Address of Applicant :100 Park Avenue, Florham Park, New Jersey 07932 U.S.A.
(31) Priority Document No	:62/676434	(72)**Name of Inventor :**
(32) Priority Date	:25/05/2018	**1)MOSER, Hal**
(33) Name of priority country	:U.S.A.	**2)HABEX, Veerle**
(86) International Application No Filing Date	:PCT/US2019/033982 :24/05/2019	**3)DAUM, Julia** **4)KLEVEN, Thomas** **5)BEILINSON, Vadim**
(87) International Publication No	:WO 2019/227028	**6)MCCARVILLE, Michael**
(61) Patent of Addition to Application Number Filing Date	:NA :NA	**7)MULLOCK, Jeremiah**
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The invention provides specific transgenic soybean plants, plant material and seeds, characterized in that these harbor a specific nematode resistance and herbicide tolerance elite transformation event at a specific location in the soybean genome, and also said plants, material and seeds treated with compounds and/or biological control agents or mixtures thereof. Tools are also provided which allow rapid and unequivocal identification of the event in biological samples.



No. of Pages : 273 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202027051741 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PLANTS COMPRISING WHEAT G-TYPE CYTOPLASMIC MALE STERILITY RESTORER GENES AND USES THEREOF

(51) International classification	:C07K0014415000, A01H0001020000, A01H0001040000, C12N0015820000, C12Q0001689500
(31) Priority Document No	:18174269.3
(32) Priority Date	:25/05/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/063463 :24/05/2019
(87) International Publication No	:WO 2019/224353
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)BASF SE
Address of Applicant :Carl-Bosch-Strasse 38 Ludwigshafen am Rhein Germany
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(72)**Name of Inventor :**
1)DAVEY, Mark
2)JACOBS, Jonny
3)CAVANAGH, Colin Robert
4)ROHDE, Antje
5)ARIYADASA, Ruvini
6)VERSTICHELE, Arne
7)VAN THOURNOUT, Michel
8)WHAN, Alexander
9)BARRERO SANCHEZ, Jose
10)SINGARAM NATARAJAN, Aswinkumar
11)SPRIGGS, Andrew
12)BOVILL, William

(57) Abstract :
Methods are described for selecting or producing a cereal plant comprising a functional restorer gene for wheat G-type cytoplasmic male sterility and nucleic acids and/or polypeptides for use therein.

No. of Pages : 38 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202027051803 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR DATAFLOW GRAPH OPTIMIZATION

(51) International classification	:G06F0016242000, G06F0016901000, G06F0016230000, G06F0008410000, G06F0008340000
(31) Priority Document No	:15/993284
(32) Priority Date	:30/05/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/033573 :22/05/2019
(87) International Publication No	:WO 2019/231793
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)DICKIE, Garth, Allen

(57) Abstract :
At least one non-transitory computer-readable storage medium storing processor- executable instructions that, when executed by at least one computer hardware processor, cause the at least one computer hardware processor to perform: obtaining an automatically generated initial dataflow graph, the initial dataflow graph comprising a first plurality of nodes representing a first plurality of data processing operations and a first plurality of links representing flows of data among nodes in the first plurality of nodes; and generating an updated dataflow graph by iteratively applying dataflow graph optimization rules to update the initial dataflow graph, the updated dataflow graph comprising a second plurality of nodes representing a second plurality of data processing operations and a second plurality of links representing flows of data among nodes in the second plurality of nodes.

No. of Pages : 46 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202027051804 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : GRAFT SECURING SYSTEM, APPLICATOR AND METHOD

(51) International classification	:A61F0002848000, A61F0002070000, A61F0002958000, A61B0017064000, A61B0017000000
(31) Priority Document No	:62/684339
(32) Priority Date	:13/06/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IL2019/050664 :12/06/2019
(87) International Publication No	:WO 2019/239409
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KARMELI, Ron
2)TEICHMAN, Eyal

(57) Abstract :
A graft securing system including at least one expandable frame moveable from a collapsed state to an expanded state, and at least one anchor coupled to the frame via an elastic support strut, said anchor including: an anchor base, at least one deflectable prong protruding from said anchor base and having at least one penetration tip and at least one restraining sleeve at least partially slideably moveable along the at least one prong and wherein in the collapsed state, the support strut is biased radially centrally bringing the at least one anchor to point generally axially, parallel to a longitudinal axis of the frame.

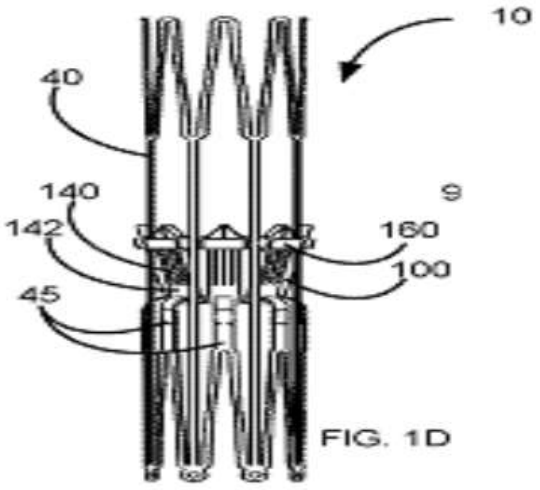


FIG. 1D

No. of Pages : 31 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2020

(21) Application No.202027051808 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PROCESS AND DEVICE FOR PRODUCING SYNTHETIC FLAGSTONES

(51) International classification	:B28B0013020000, B28B0001000000, B29C0067240000, B30B0015300000, B28B0003120000
(31) Priority Document No	:A 50433/2018
(32) Priority Date	:28/05/2018
(33) Name of priority country	:Austria
(86) International Application No Filing Date	:PCT/AT2019/060176 :27/05/2019
(87) International Publication No	:WO 2019/227114
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)EQTEC ENGINEERED QUARTZ TECHNOLOGY GMBH
Address of Applicant :Hartiggasse 20/24 Wiener Neustadt Austria
(72)**Name of Inventor :**
1)HORVATH, Wolfgang Johann

(57) Abstract :
The invention relates to a process and a plant for the continuous production of synthetic flagstones. In said process, raw materials comprising at least one mineral filler and an organic binder are mixed, applied to a lower belt (3) of a dual-belt press (2), or to a conveying means (8) mounted upstream of the lower belt (3) and are subsequently continuously pressed and the binder is cured. A continuous material strand is separated into individual synthetic flagstones. According to the invention, the raw materials are mixed at staggered times in a batch mixing operation by means of two separate mixing devices (15). The mixed raw materials from the mixing devices (15) are transferred to one or more spreading device(s) (16) at staggered times and are applied continuously, without interruption, to the lower belt (3), or to the conveying means (8) mounted upstream of the lower belt (3), by means of the spreading device or devices (16). Figure 3 is the representative figure.

No. of Pages : 36 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2020

(21) Application No.202027052950 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : OLED DISPLAY PANEL AND DISPLAY DEVICE

(51) International classification	:H01L0027320000, H01L0051520000, G09G0003340000, G02F0001133570, H01L0051560000
(31) Priority Document No	:201920716235.9
(32) Priority Date	:17/05/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/084344 :11/04/2020
(87) International Publication No	:WO 2020/233277
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)HAO, Xueguang
2)QIAO, Yong
3)WU, Xinyin
4)CHENG, Hongfei

(57) Abstract :
The present invention relates to the technical field of display, and provides an OLED display panel and a display device. The OLED display panel comprises a substrate, a plurality of light-emitting areas arranged in an array, and a light resistance structure located between the light-emitting areas and configured to prevent emergent light of the light-emitting areas from being emitted from one side of the substrate between the light-emitting areas after being reflected. According to the OLED display panel, one side of the substrate serves as a display light-emitting side, the light resistance structures are arranged between the light-emitting areas, the light resistance structures can prevent emergent light of the light-emitting areas from being emitted from one side of the substrate between the light-emitting areas after being reflected, so as to avoid light leakage of the OLED display panel, thereby improving the display effect of the OLED display panel.

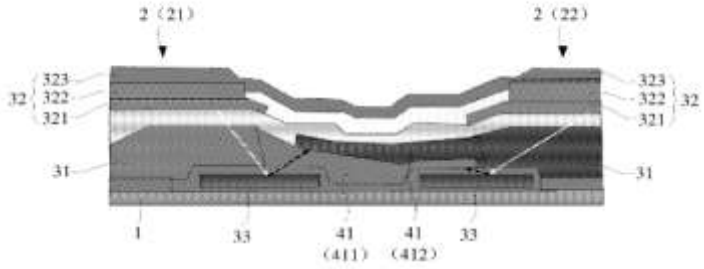


图 3

No. of Pages : 11 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2021

(21) Application No.202124011407 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : GEAR UNIT FOR A COMBING MACHINE AND COMBING MACHINE WITH SUCH GEAR UNIT

(51) International classification	:D01G0019260000, D01G0019160000, F16H0057020000, B60T0008320000, D01G0019200000
(31) Priority Document No	:10 2020 109 813.8
(32) Priority Date	:08/04/2020
(33) Name of priority country	:Germany
(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

(71)**Name of Applicant :**
1)Trützschler GmbH & Co. KG
Address of Applicant :Duvenstrasse 82-92, 41199 Mönchengladbach, Germany. Germany
(72)**Name of Inventor :**
1)SCHMITZ, Thomas

(57) Abstract :
The present invention relates to a gear unit (1) for a combing machine in the spinning mill preparation, wherein the gear unit (1) includes a input drive shaft (10), which can be brought into operative connection with a drive motor (11), and wherein the gear unit (1) includes a nipper gear (12), which is drivingly connected to the input drive shaft (10) and adapted for driving a nipper, wherein furthermore, the gear unit (1) includes a detaching cylinder gear (14), which is adapted for driving at least one detaching cylinder (15, 16) and wherein the detaching cylinder gear (14) is drivingly connected to the nipper gear (12) by means of a coupling unit (17). According to the invention, the coupling unit (17) includes an electrically actuatable setting means (18), which is able to change the condition of the coupling unit (17). Furthermore, the invention is directed to a combing machine with such a gear unit (1). Figure 1 is the representative figure.

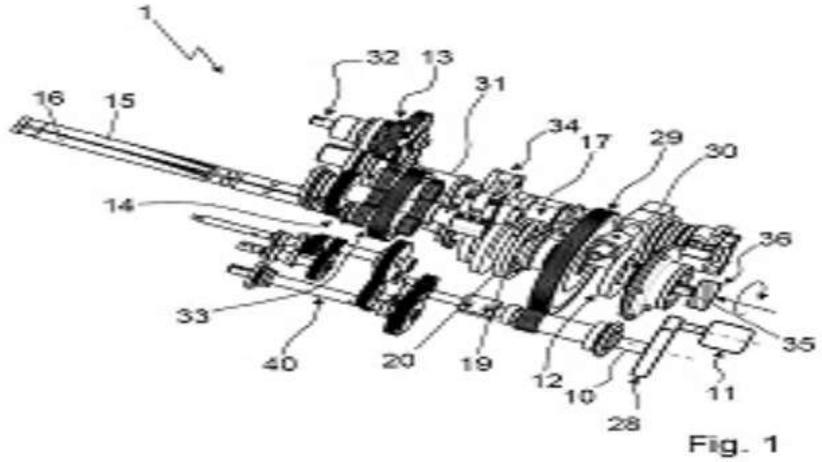


Fig. 1

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/04/2021

(21) Application No.202124016092 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :SYSTEM AND METHOD FOR IMPROVED EXTREME LOAD CONTROL FOR WIND TURBINE ROTOR BLADES"

(51) International classification	:F03D0007020000, F03D0007040000, F03D0001060000, G05B0015020000, F03D0017000000
(31) Priority Document No	:16/844,575
(32) Priority Date	:09/04/2020
(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 :**
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(72)**Name of Inventor :**
1)Francesco Perrone
2)Leonardo Cesar Kammer

(57) Abstract :
A method for reducing extreme loads acting on at least one rotor blade of a wind turbine includes calculating, via a processor, a flapwise bending moment of the rotor blade(s). Further, the method includes calculating, via the processor, an edgewise bending moment of the rotor blade(s). The method also includes calculating, via the processor, an average load envelope of a blade root bending moment of the rotor blade(s) as a function of the flapwise bending moment and the edgewise bending moment of the rotor blade(s). Moreover, the method includes calculating, via the processor, an overall load envelope of the blade root bending moment of the rotor blade(s) as a function of the average load envelope and a future load estimation of the blade root bending moment of the rotor blade(s). As such, the method also includes implementing, via the processor, a control action when the overall load envelope is above a certain threshold. [FIG. 4]

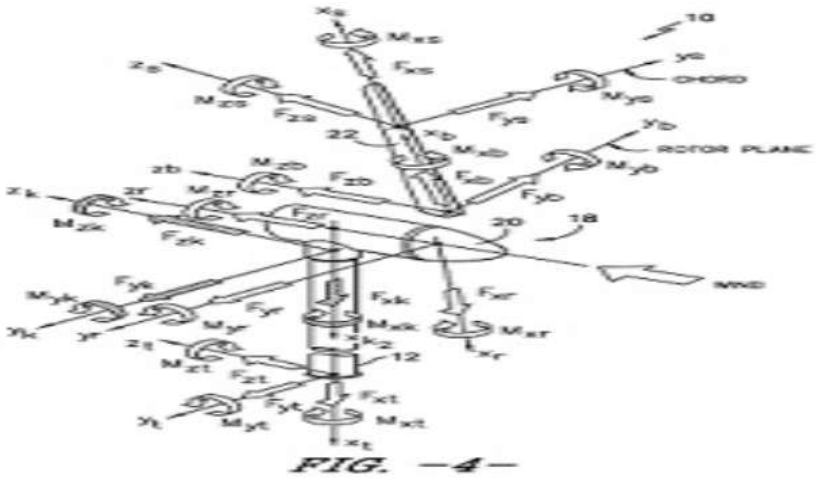


FIG. —4—

No. of Pages : 40 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/01/2021

(21) Application No.202127000718 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR PRODUCING A SPIDER FROM CONTINUOUS FIBRE PLASTIC COMPOSITE

(51) International classification	:B60B0005020000, B29C0070000000, B29C0070320000, B60B0001040000, B60B0003100000
(31) Priority Document No	:10 2018 113 797.4
(32) Priority Date	:09/06/2018
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2019/065043 :07/06/2019
(87) International Publication No	:WO 2019/234250
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)BÜCKER, Marcel

(57) Abstract :
The invention relates to a method for producing a spider (5) having one or a plurality of continuous fibre bundles (111), • in which a production device (100) is used for winding a fibre winding (3) and for shaping the fibre winding (3) into a spoke (5), • the production device (100) having a plurality of deflecting devices (2) on the wheel rim side and a plurality of deflecting devices (4) on the hub side, • the deflecting devices (2) on the wheel rim side and the deflecting devices (4) on the hub side being arranged around an interior of the arrangement (10) from the deflecting devices (2, 4), • in a first step a continuous fibre bundle (111) is wound around at least a part of the deflecting devices (2) on the wheel rim side as a fibre winding (3), • and in a second step after this winding at least a part of the deflecting devices (4) on the hub side is displaced in the direction of the interior of the arrangement (10), the fibre winding being (5) deformed in a star shape, such that between the deflecting devices (4) on the hub side and the deflecting devices (2) on the wheel rim side spokes (12) are formed from parts of the fibre winding (3) which form the at least one part of a closed spider (5). The invention further relates to a production device (100), to a spider (5) and to a spoke wheel (11).

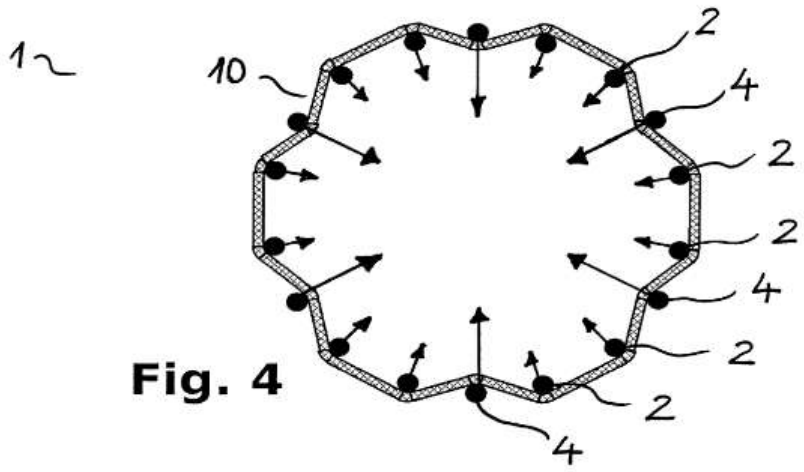


Fig. 4

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/01/2021

(21) Application No.202127003173 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SCHEDULING PARAMETER DETERMINATION METHOD AND SCHEDULING PARAMETER CONFIGURATION METHOD, TERMINAL, AND NETWORK-SIDE DEVICE

(51) International classification	:H04W0072040000, H04W0072120000, H04L0005000000, G06F0009500000, F16K0011085000
(31) Priority Document No	:201810762971.8
(32) Priority Date	:12/07/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/094522 :03/07/2019
(87) International Publication No	:WO 2020/011084
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)YANG, Yu
2)SUN, Peng

(57) Abstract :
Provided are a scheduling parameter determination method and a scheduling parameter configuration method, a terminal, and a network-side device. The scheduling parameter determination method is applied to the terminal, and comprises: when the numerology of a PDCCH is different from the numerology of a carrier or a BWP where a PDSCH scheduled by the PDCCH is located, determining a currently used scheduling offset threshold according to a preset rule. [To be published with Figure 2]

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/01/2021
(21) Application No.202127003427 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR CASTING ALUMINUM ON ROTOR

(51) International classification	:B22D0018040000, B22D0017200000, F04B0017040000, B22D0035040000, B22C0009280000	(71)**Name of Applicant :** **1)FUJIAN PUHUI TECHNOLOGY DEVELOPMENT CO., LTD** Address of Applicant :No. 68, Saijiang North Road, Saiqi Economy Development Zone Fuan, Fujian China
(31) Priority Document No	:201810801154.9	**2)HOU, Jibo**
(32) Priority Date	:20/07/2018	**3)ZHEN, Hongbin**
(33) Name of priority country	:China	(72)**Name of Inventor :**
(86) International Application No	:PCT/CN2019/095995	**1)HOU, Jibo**
Filing Date	:15/07/2019	**2)HOU, Jibo**
(87) International Publication No	:WO 2020/015608	**3)ZHEN, Hongbin**
(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 casting aluminum in a rotor, comprising: installing a casting device on a casting worktable, and storing enough molten aluminum water in the casting device, the casting device comprising a heat insulation furnace (1) and an electromagnetic pump (2) arranged at a side portion of the heat insulation furnace; assembling multiple rotor iron cores and multiple dies (5) together outside of the casting worktable, and then preheating; installing the preheated multiple dies on multiple liquid discharging sprues located at the top end of the electromagnetic pump (20 b), each liquid discharging sprue matching a liquid inlet sprue (5a) of a die; heating and insulating the installed dies in a multi-stage heating manner; during casting of the electromagnetic pump, controlling the pressurizing pressure of casting in different time periods; and after casting is completed, removing the multiple dies from the casting worktable to be cooled. By means of the described method for casting aluminum in a rotor, the heating time is reasonably distributed, a one-time multi-pouring manner is adopted, and therefore the casting efficiency is improved. Due to the cooperation between the top-to-bottom temperature gradient and accurate pressure control, the feeding capacity is improved. Fig.1

No. of Pages : 8 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/01/2021

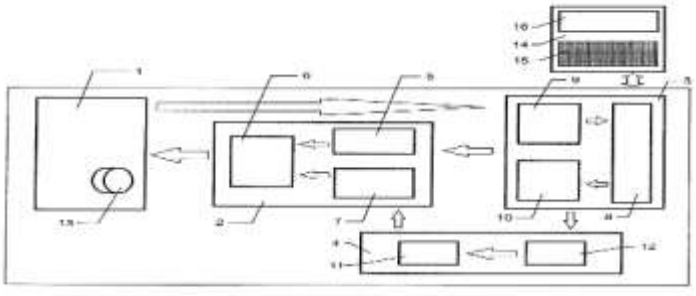
(21) Application No.202127003479 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PROGRAMMABLE UNIVERSAL PROBE

(51) International classification	:G08C0017020000, B60C0023040000, G01P0015000000, G01K0001020000, H01Q0001400000
(31) Priority Document No	:2018137733
(32) Priority Date	:26/10/2018
(33) Name of priority country	:Russia
(86) International Application No Filing Date	:PCT/RU2019/000716 :08/10/2019
(87) International Publication No	:WO 2020/085945
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)TAREEVA, Elena Alekseevna
2)TAREEVA, Elena Alekseevna
3)LANKOV, Aleksey Anatolevich

(57) Abstract :
A programmable universal probe comprises a housing having a controllable electrical power source installed therein to provide the assemblies of the probe with a supply voltage, a controller which includes a system of accelerometer sensors, a microcontroller and a temperature sensor, an antenna assembly in the form of a ferrite transmitting antenna, and a radiated power meter, consisting of a current sensor with an amplifier. The antenna assembly is equipped with power switches and an input signal amplifier. The ferrite antenna is designed as a transceiver antenna which is capable of receiving the operating parameters of the probe in a programming mode and transmitting information to a receiver in an operating mode. The receiver and the programmable probe have a compatible data reception and transmission protocol. Figure. 1



Фигура

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003821 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BEAM FAILURE RECOVERY METHOD, TERMINAL DEVICE, AND NETWORK SIDE DEVICE

(51) International classification	:H04W0072040000, H04L0005000000, H04B0007060000, H04L0001160000, H04B0007024000
(31) Priority Document No	:201810789689.9
(32) Priority Date	:18/07/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/095020 :08/07/2019
(87) International Publication No	:WO 2020/015545
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)YANG, Yu
2)SUN, Peng

(57) Abstract :
Provided are a beam failure recovery method, a terminal device, and a network side device. The method comprises: receiving a high-layer signaling, the high-layer signaling comprising configuration information of a CORESET-BFR configured for a terminal device; the configuration information of the CORESET-BFR comprising at least one of: a cell index of a cell where the CORESET-BFR is located, and a BWP index of a BWP where the CORESET-BFR is located.

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003829 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SCR CATALYST FOR THE TREATMENT OF AN EXHAUST GAS OF A DIESEL ENGINE

(51) International classification	:B01D0053940000, B01J0035040000, B01J0037020000, F01N0003035000, B01J0029760000
(31) Priority Document No	:18185261.7
(32) Priority Date	:24/07/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/069878 :24/07/2019
(87) International Publication No	:WO 2020/020927
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :100 Park Avenue Florham Park, New Jersey 07932 U.S.A.
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(72)**Name of Inventor :**
1)HUENNEKES, Edgar Viktor
2)BEARD, Kevin David
3)CORDES, Petra
4)WOLFF, Ruediger
5)BECKER, Jan Martin

(57) Abstract :
The present invention relates to a selective catalytic reduction catalyst for the treatment of an exhaust gas of a diesel engine comprising: 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; a first coating disposed on the surface of the internal walls of the substrate, which surface defines the interface between the internal walls and the passages, wherein the first coating extends over 40 to 100 % of the substrate axial length, wherein the first coating comprises an 8-membered ring pore zeolitic material comprising one or more of copper and iron; a second coating extending over 20 to 100 % of the substrate axial length, wherein the second coating comprises a first oxidic material comprising titania, wherein at least 75 weight-% of the second coating consist of titania, calculated as TiO2, and wherein from 0 to 0.01 weight-% of the second coating consists of one or more vanadium oxides, calculated as V2O5.

No. of Pages : 43 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021
(21) Application No.202127003861 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CONTEXTUAL DENORMALIZATION FOR AUTOMATIC SPEECH RECOGNITION

(51) International classification	:G10L0015220000, G10L0015260000, G10L0015190000, H04N0009730000, G10L0015000000
(31) Priority Document No	:16/192953
(32) Priority Date	:16/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/049401 :03/09/2019
(87) International Publication No	:WO 2020/101789
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MICHAELY, Assaf, Hurwitz
2)ALEKSIC, Petar
3)MORENO, Pedro

(57) Abstract :
A method (600) includes receiving a speech input (104) from a user and obtaining context metadata (110) associated with the speech input. The method also includes generating a raw speech recognition result (312) corresponding to the speech input and selecting a list of one or more denormalizers (352) to apply to the generated raw speech recognition result based on the context metadata associated with the speech input. The generated raw speech recognition result includes normalized text. The method also includes denormalizing the generated raw speech recognition result into denormalized text (322) by applying the list of the one or more denormalizers in sequence to the generated raw speech recognition result.

No. of Pages : 33 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021
(21) Application No.202127003863 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND SYSTEM OF TRACKING PATIENT POSITION IN OPERATION

(51) International classification	:G16H0030200000, G06T0007730000, A61B0034000000, B25J0005000000, G16H0050700000
(31) Priority Document No	:62/713522
(32) Priority Date	:01/08/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CN2019/098706 :31/07/2019
(87) International Publication No	:WO 2020/025001
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)CHEN, Chieh Hsiao
2)WANG, Kuan Ju

(57) Abstract :
A method to update an operation pathway for a robotic arm assembly (140) in response to a movement of a patient (101). The method includes processing a two-dimensional image (300) associated with a tag (200) having a spatial relationship with the patient (101). A corresponding movement of the tag (200) in response to the movement of the patient (101) is determined based on the spatial relationship. The tag (200) includes a first point (201) and a second point (202) and the two-dimensional image (300) includes a first point image (301) and a second point image (302). The method also includes associating the first point image (301) with the first point (201) and the second point image (302) with the second point (202) and updating the operation pathway based on a conversion matrix of the first point (201) and the second point (202), and the first point image (301) and the second point image (302).

No. of Pages : 12 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003864 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR MANUFACTURING HOT-DIP METAL PLATED STEEL STRIP, AND CONTINUOUS HOT-DIP METAL PLATING FACILITY

(51) International classification	:C23C0002200000, C23C0002000000, C23C0002400000, C23C0002120000, C23C0002180000
(31) Priority Document No	:2018-155714
(32) Priority Date	:22/08/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/030071 :31/07/2019
(87) International Publication No	:WO 2020/039869
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)TERASAKI Yu
2)TAKAHASHI Hideyuki
3)KOYAMA Takumi
4)KAKU Yoshihiko

(57) Abstract :
Provided is a method for manufacturing a hot-dip metal plated steep strip, whereby it is possible to manufacture a high-quality hot-dip metal plated steel strip in which edge overcoating is adequately suppressed. This method for manufacturing a hot-dip metal plated steel strip is characterized in that when a gas is blown from a pair of gas wiping nozzles 20A, 20B to a steel strip S raised from a molten metal bath 14 to adjust the amount of molten metal adhering to both surfaces of the steel strip, a pair of buffer plates 40, 42 is provided on the outside of both ends in the width direction of the steel strip, and the height B of lower ends of the pair of buffer plates 40, 42 with respect to the surface of the molten metal bath is no more than +50 mm, the positive direction being vertically upward.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003865 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MACHINE LEARNING FOR DETERMINING PROTEIN STRUCTURES

(51) International classification	:G16B0015000000, C07K0001040000, G06F0016290000, C07K0014435000, G01R0031382000
(31) Priority Document No	:62/734757
(32) Priority Date	:21/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/074674 :16/09/2019
(87) International Publication No	:WO 2020/058176
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SENIOR, Andrew W.
2)KIRKPATRICK, James
3)SIFRE, Laurent
4)EVANS, Richard Andrew
5)PENEDONES, Hugo
6)QIN, Chongli
7)SUN, Ruoxi
8)SIMONYAN, Karen
9)JUMPER, John

(57) Abstract :
Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for performing protein structure prediction. In one aspect, a method comprises generating a distance map for a given protein, wherein the given protein is defined by a sequence of amino acid residues arranged in a structure, wherein the distance map characterizes estimated distances between the amino acid residues in the structure, comprising: generating a plurality of distance map crops, wherein each distance map crop characterizes estimated distances between (i) amino acid residues in each of one or more respective first positions in the sequence and (ii) amino acid residues in each of one or more respective second positions in the sequence in the structure of the protein, wherein the first positions are a proper subset of the sequence; and generating the distance map for the given protein using the plurality of distance map crops.

No. of Pages : 101 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003866 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TUNING OF RELEASE KINETICS IN HYDROGELS

(51) International classification	:A61K0009160000, A61K0047340000, C07K0016000000, A61K0009000000, A61K0009060000
(31) Priority Document No	:62/695472
(32) Priority Date	:09/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/040940 :09/07/2019
(87) International Publication No	:WO 2020/014185
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CHEN, Hunter
2)SCHLESINGER, Erica
3)FEINDT, James

(57) Abstract :
The present disclosure is directed to methods for tuning the release profile of a biologic disposed in a hydrogel. Parameters that can be used for the tuning include a molar ratio of a nucleophilic group to an electrophilic group, the number of the nucleophilic groups in the first precursor, the number of the electrophilic groups in the second precursor, the molecular weight of the first precursor, the molecular weight of the second precursor, a weight ratio of the biologic and excipient to the hydrogel, a weight percentage of the biologic in a solid state formulation, and a ratio of surface area to volume of the hydrogel. The methods described herein allow the formation of hydrogel with different release profiles suitable for different therapeutic applications.

No. of Pages : 44 No. of Claims : 59

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003876 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A GREENHOUSE HAVING A CLIMATE CONTROL SYSTEM, CLIMATE CONTROL SYSTEM AND METHOD OF OPERATING THE GREENHOUSE

(51) International classification	:A01G0009240000, A01G0009140000, A01G0009180000, A01G0031040000, F24F0003140000
(31) Priority Document No	:2021676
(32) Priority Date	:20/09/2018
(33) Name of priority country	:Netherlands
(86) International Application No Filing Date	:PCT/NL2019/050613 :18/09/2019
(87) International Publication No	:WO 2020/060402
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)VDB B.V.
Address of Applicant :132, Willem van Noortstraat 3514 GH UTRECHT Netherlands
(72)**Name of Inventor :**
1)VAN DEN BERG, Bart Jan

(57) Abstract :
A greenhouse (10) for growing plants, comprises a growing area (12) for growing crops and a climate control system for controlling the greenhouse interior climate in the growing area. This control system comprises a condenser (48) for dehumidifying greenhouse air, a greenhouse air heat exchanger(32) for heat-exchange between greenhouse air derived from the growing area upstream of the air inlet of the condenser and in the condenser dehumidified greenhouse air downstream of the air outlet of the condenser, a first controllable bypass(42; 5) for allowing greenhouse air to bypass the greenhouse air heat exchanger, a controllable fan(56), a mixing chamber(14) in fluid communication with the air discharge of the heat exchanger and with the growing area and having a controllable inlet (62) for introducing ambient air from the greenhouse exterior environment, and an outlet(65)having a controlled fan (17) for air in fluid communication with the growing area.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003889 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SEPTUM HOLDER WITH MOVEABLE SEPTUM

(51) International classification	:A61M0039020000, A61J0001200000, A61J0001140000, G07G0001000000, G10K0011172000
(31) Priority Document No	:261024
(32) Priority Date	:07/08/2018
(33) Name of priority country	:Israel
(86) International Application No Filing Date	:PCT/IL2019/050871 :01/08/2019
(87) International Publication No	:WO 2020/031174
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)KRIHELI, Marino
2)SHEM-TOV, Eric
3)TAVOR, Raanan

(57) Abstract :
Disclosed is a septum holder for use in a connector section of a fluid transfer apparatus for the transfer of a drug from one container to another. The septum holder comprises a body part and a septum support that are moveable in relation to each other. A septum is attached to the septum support. The body part and septum support are configured to be locked to each other at the end of a movement that brings them to their closest positions to each other.

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003897 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMIC GENERATION OF URL BY SMART CARD

(51) International classification	:G06K0019070000, G06K0019077000, G06F0021620000, G06Q0020340000, G06K0007100000
(31) Priority Document No	:16/034229
(32) Priority Date	:12/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/041217 :10/07/2019
(87) International Publication No	:WO 2020/014369
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)RULE, Jeffrey
2)LUTZ, Wayne
3)MORETON, Paul
4)OSBORN, Kevin

(57) Abstract :
Embodiments of a smart card and systems and methods for secure data access using a smart card are described. The smart card may be formed a substrate and may include a microprocessor, a memory containing an applet, a counter, and a unique identifier. The smart card may dynamically generate a unique uniform resource location (URL) and transmit the URL to via a contactless communication interface to securely facilitate data access from other devices.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003904 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITION OF FUSED TRICYCLIC -AMINO ACID DERIVATIVE AND PREPARATION THEREFOR

(51) International classification	:C07C0229280000, C07D0401040000, A61P0025060000, A61K0031554000, A61P0025040000
(31) Priority Document No	:201810756863.X
(32) Priority Date	:12/07/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/095856 :12/07/2019
(87) International Publication No	:WO 2020/011257
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)ZHANG, Xuanmiao
2)PENG, Feng
3)MAO, Hua
4)DENG, Juanjuan
5)YAN, Pangke

(57) Abstract :
The present invention provides a pharmaceutical composition of fused tricyclic gamma-amino acid derivatives and the use thereof. The pharmaceutical composition includes: (i) a compound having a structure represented by formula (I) or a pharmaceutically acceptable salt thereof, as an active material, in an amount of 1% to 45% by weight; (ii) optionally one or more fillers in an amount of 50% to 95% by weight; (iii) optionally one or more lubricating agents in an amount of 0.1% to 5.5% by weight; and the sum of weight percentages of the all components is 100%, wherein the pharmaceutically acceptable salt of the compound of formula (I) has a structure as follows.

No. of Pages : 91 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202127003921 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS COMPRISING ACTIVE BOTANICAL INGREDIENTS

(51) International classification	:A61K0036284000, A61K0036484000, A61K0031560000, A61K0031353000, A61K0036185000
(31) Priority Document No	:PCT/CN2018/097728
(32) Priority Date	:30/07/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/EP2019/068237 :08/07/2019
(87) International Publication No	:WO 2020/025257
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)CONOPCO, INC., D/B/A UNILEVER
(72)**Name of Inventor :**
1)GU, Xuelan
2)LIU, Yanling
3)TU, Fengjuan

(57) Abstract :
Disclosed is a composition comprising a plurality of active botanical ingredients, each predominantly associated with an in-use beneficial effect on an animate or inanimate substrate, where said composition comprises: (i) a first aqueous extract of a material derived from a first plant, said first extract comprising a first amount of a first active botanical ingredient; (ii) a second aqueous extract of a material derived from a second plant whose genus is not the same as the first plant, said second extract comprising a first amount of a second active botanical ingredient; (iii) an additional amount of said first active botanical ingredient; and (iv) an additional amount of said second active botanical ingredient; where each said additional amount is included by spiking said composition or the corresponding aqueous extract selectively with said first and said second active botanical ingredients, such that ratio of said first amount of said first active botanical ingredient to its corresponding additional amount and ratio of said first amount of said second active botanical ingredient to its corresponding additional amount in the composition is from 1:1 to 1:3000 parts by weight, wherein said composition is substantially free of non-aqueous extracts of any material derived from said first or said second plant wherein said first plant is Atractylodes macrocephala and said first active botanical ingredient is atractylenolide I, II or III and further wherein said second plant is Glycyrrhiza uralensis, Glycyrrhiza inflata or Glycyrrhiza glabra and said second active botanical ingredient is licochalcone A or glabridin.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/01/2021
(21) Application No.202127003931 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND DEVICE FOR ENCODING IMAGE AND METHOD AND DEVICE FOR DECODING IMAGE ON BASIS OF SUB-BLOCK

(51) International classification	:H04N0019176000, H04N0019105000, H04N0019513000, H04N0019510000, H04N0019520000
(31) Priority Document No	:62/711139
(32) Priority Date	:27/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/KR2019/009382 :29/07/2019
(87) International Publication No	:WO 2020/022853
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)PARK, Minwoo
2)PARK, Minsoo
3)JEONG, Seungsoo
4)TAMSE, Anish

(57) Abstract :
Disclosed according to one embodiment is a method for decoding an image, comprising the steps of: determining a candidate list including, as a candidate, a first reference block indicated by a temporal motion vector, if the size of a current block in an image is at least a preset size; determining motion vectors of sub-blocks in the current block by using motion vectors acquired from the first reference block, if the first reference block is selected from among candidates included in the candidate list; and restoring the current block on the basis of sample values of a second reference block indicated by the motion vectors of the sub-blocks.

No. of Pages : 87 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/01/2021

(21) Application No.202127004041 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR SCALABLY TRACKING MEDIA PLAYBACK USING BLOCKCHAIN

(51) International classification	:G06F0021640000, G06Q0030020000, H04N0021472000, H04N0021431000, G06F0021100000
(31) Priority Document No	:16/457663
(32) Priority Date	:28/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/063800 :27/11/2019
(87) International Publication No	:WO 2020/263308
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)BATEY, Andrew
2)ASSADIPOUR, Pouria

(57) Abstract :
Systems and methods for tracking media file playback are provided. A request to upload a media file and metadata associated with the media file is received. Next, the media file and metadata is uploaded via a blockchain protocol. Next, a request to play the media file is received from a client device or a digital service provider (DSP) platform. The request to play the media file is validated via the blockchain protocol. Upon validating the request to play the media file, the media file is transmitted for playback at the client device or DSP platform. Last, the number of times the media file is played is tracked via the blockchain protocol.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/01/2021
(21) Application No.202127004058 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PUCCH COLLISION PROCESSING METHOD AND TERMINAL

(51) International classification	:H04W0072120000, H04W0072040000, H04L0001180000, H04L0005000000, H04B0007041700
(31) Priority Document No	:201810725412.X
(32) Priority Date	:04/07/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/094697 :04/07/2019
(87) International Publication No	:WO 2020/007340
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)LI, Na
2)SHEN, Xiaodong

(57) Abstract :
Embodiments of the present invention provide a PUCCH collision processing method and terminal. The method comprises: if a first PUCCH and a second PUCCH overlap in a first timeslot, transmitting one of the first PUCCH and the second PUCCH within the first timeslot according to the configuration of at least one of the first PUCCH and the second PUCCH, wherein the first PUCCH is configured as multi-timeslot PUCCH repeated transmission, and bearer content of the first PUCCH comprises one of channel state information (CSI) and a scheduling request (SR), the second PUCCH is configured as single-timeslot or multi-timeslot repeated transmission, and bearer content of the second PUCCH comprises one of CSI or SR, and the first timeslot is one or more timeslots.

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/01/2021
(21) Application No.202127004076 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CORNER STRUCTURE FOR A SEALED, THERMALLY INSULATED TANK

(51) International classification	:F17C0003020000, B63B0025160000, B62D0033040000, F25D0023060000, A61B0017080000
(31) Priority Document No	:1857325
(32) Priority Date	:06/08/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2019/051899 :02/08/2019
(87) International Publication No	:WO 2020/030871
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
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2)LE BIHAN, Ronan

(57) Abstract :
The invention relates to a corner structure (16) for a sealed, thermally insulated tank for storing a fluid, the tank having a plurality of walls (1, 101, 201); the disclosed corner structure (16) is to be disposed in a corner between a first wall (101) and a second wall (201) and comprises: a first angle section (32) that is anchored to an anchoring device (16) which is to be secured to the load-bearing structure (3) of the first and second walls (101, 201); the anchoring device (16) that includes a first leg (18) and a second leg (19) that intersect, each of the first and second legs (18, 19) comprising an outer portion (24, 25) and an inner portion (22, 23) which are located on either side of an intersection between the first leg (18) and the second leg (19); the corner structure (16) further comprises a first insulating panel (42) which is arranged in a first space delimited by the inner portion (22) of the first leg (18) and the outer portion (25) of the second leg (19), as well as a first lateral insulating lining element (48) which is compressed between the first insulating panel (42) and the outer portion (25) of the second leg (19).

No. of Pages : 22 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/01/2021

(21) Application No.202127004079 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MACHINE LEARNING FOR DETERMINING PROTEIN STRUCTURES

(51) International classification	:H04L0029060000, G06N0003080000, G06T0007000000, H01L0021660000, H04L0029080000
(31) Priority Document No	:62/734757
(32) Priority Date	:21/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/074670 :16/09/2019
(87) International Publication No	:WO 2020/058174
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KIRKPATRICK, James
3)SIFRE, Laurent
4)EVANS, Richard Andrew
5)PENEDONES, Hugo
6)QIN, Chongli
7)SUN, Ruoxi
8)SIMONYAN, Karen
9)JUMPER, John

(57) Abstract :
Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for performing protein structure prediction and protein domain segmentation. In one aspect, a method comprises generating a plurality of predicted structures of a protein, wherein generating a predicted structure of the protein comprises: updating initial values of a plurality of structure parameters of the protein, comprising, at each of a plurality of update iterations: determining a gradient of a quality score for the current values of the structure parameters with respect to the current values of the structure parameters; and updating the current values of the structure parameters using the gradient.

No. of Pages : 101 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/01/2021
(21) Application No.202127004084 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PAGING INDICATION METHOD, APPARATUS AND SYSTEM

(51) International classification	:H04W0068000000, H04W0068020000, H04W0072120000, H04W0052020000, H04W0008000000
(31) Priority Document No	:201810778378.2
(32) Priority Date	:16/07/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/096177 :16/07/2019
(87) International Publication No	:WO 2020/015640
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)WU, Kai
2)JIANG, Dajie

(57) Abstract :
Disclosed in the embodiments of the present invention are a paging indication method, an apparatus and a system, which relate to the field of communication technologies, and can solve the problem that UE needs to consume a large amount of power to periodically blind detect a PDCCH. The specific solution comprises: UE receiving indication information from a network side device, the indication information being used for indicating detection parameters for the UE to detect a paging message, and the detection parameters being used for determining a detection mode in which the UE detects the paging message; and determining a detection mode according to the detection parameters. The embodiments of the present invention are used in a process of determining a detection mode for UE to detect a paging message.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

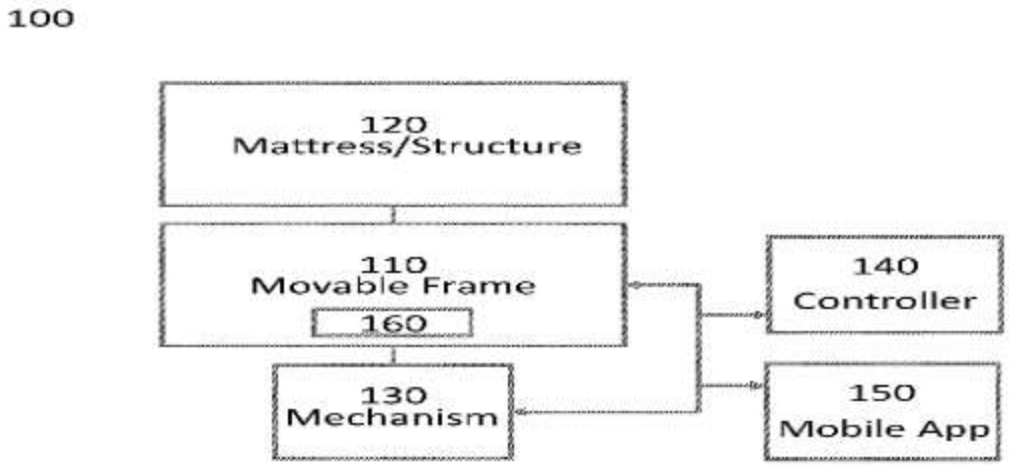
(21) Application No.202127025917 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BED FRAME SYSTEM

(51) International classification	:A61B0005110000, A47C0027080000, H04M0001725000, G07C0009000000, G16H0040670000
(31) Priority Document No	:62/767,494
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/057635 :23/10/2019
(87) International Publication No	:WO 2020/101854
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)HOOD, Amy

(57) Abstract :
A bed frame system and a movable frame may simulate movement of a body of water. The bed frame system and the movable frame may improve sleep and sleep patterns of a user and may provide additional health benefits. An intensity of movement of the bed frame system and the movable frame may be controlled by utilizing a controller and/or a mobile application. A predetermined time period of movement may also be controlled by utilizing a controller and/or a mobile application.



FIGURE

No. of Pages : 9 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/06/2021

(21) Application No.202127029431 A
(43) Publication Date : 15/10/2021

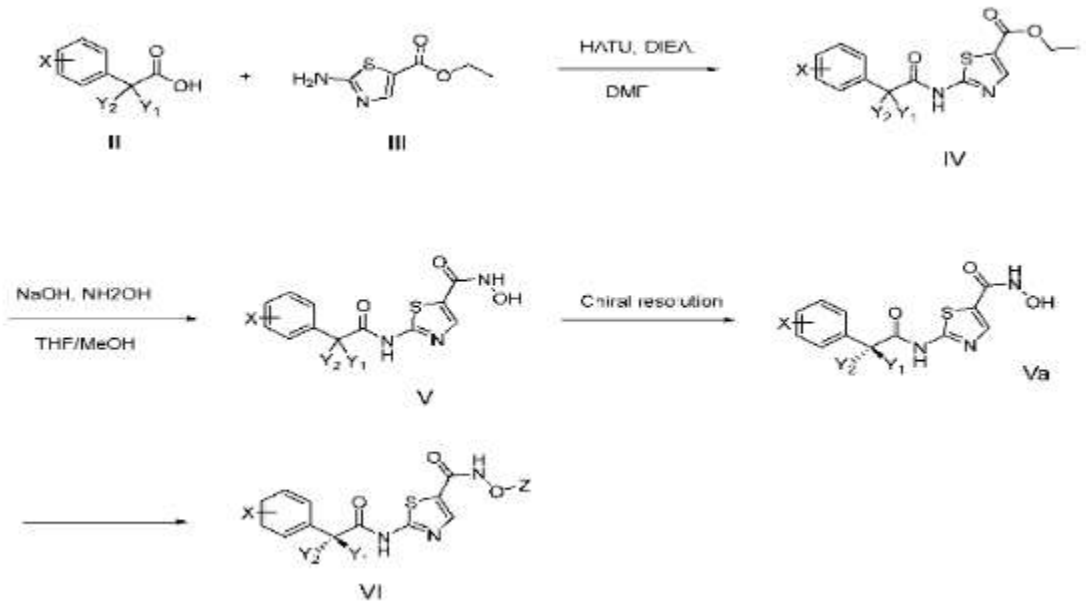
(54) Title of the invention : (S)-N-HYDROXY-2-(2-(4-METHOXYPHENYL)BUTANAMIDO)THIAZOLE-5-CARBOXAMIDE AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF

(51) International classification	:C07D0417140000, A61K0045060000, C07D0213560000, C07D0513040000, C07D0277560000
(31) Priority Document No	:62/777600
(32) Priority Date	:10/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065299 :09/12/2019
(87) International Publication No	:WO 2020/123414
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)WANG, Tong
2)GATELY, Stephen

(57) Abstract :
The invention relates to the compound (S)-n-hydroxy-2-(2-(4-methoxyphenyl) butanamido)thiazole-5-carboxamide, which is a novel histone deacetylase inhibitor. The invention further relates to the use of the compound for the inhibition of histone deacetylating activities of HDAC isoforms and treatment of histone deacetylase (HDAC)-associated diseases. The invention also relates to the pharmaceutical compositions and the making of the pharmaceutical compositions comprising the compound.

FIG. 1



No. of Pages : 52 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035495 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : GENERATION OF STRUCTURED MAP DATA FROM VEHICLE SENSORS AND CAMERA ARRAYS

(51) International classification	:G05D0001020000, B60W0030095000, G06K0009000000, G01S0005160000, G01C0021320000	(71)**Name of Applicant :** **1)VELODYNE LIDAR USA, INC.** Address of Applicant :5521 Hellyer Ave. San Jose, CA 95138 U.S.A.
(31) Priority Document No	:16/254508	(72)**Name of Inventor :** **1)NAIKAL, Nikhil**
(32) Priority Date	:22/01/2019	**2)PATRON-PEREZ, Alonso**
(33) Name of priority country	:U.S.A.	**3)MARQUES, Alexander**
(86) International Application No Filing Date	:PCT/US2020/014558 :22/01/2020	**4)KUA, John** **5)BESTICK, Aaron, Matthew**
(87) International Publication No	:WO 2020/154366	**6)THOMPSON, Christopher, D.**
(61) Patent of Addition to Application Number Filing Date	:NA :NA	**7)COSMA, Andrei, Claudiu**
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
Motion and video data from vehicle sensors and camera arrays attached to a vehicle collect video and sensor data along a path driven by the vehicle. A system processes such data to produce high-accuracy structured map data, as might be used to precisely locate a moving vehicle in its environment. Positions are calculated from the sensor data. The positions are updated based on the video data. When loops in the vehicle path are detected, a loop closure error is calculated and used to update the positions as well as to reduce bias in the sensors when calculating future positions. Positions of features in the video are used to create or update structured map data.

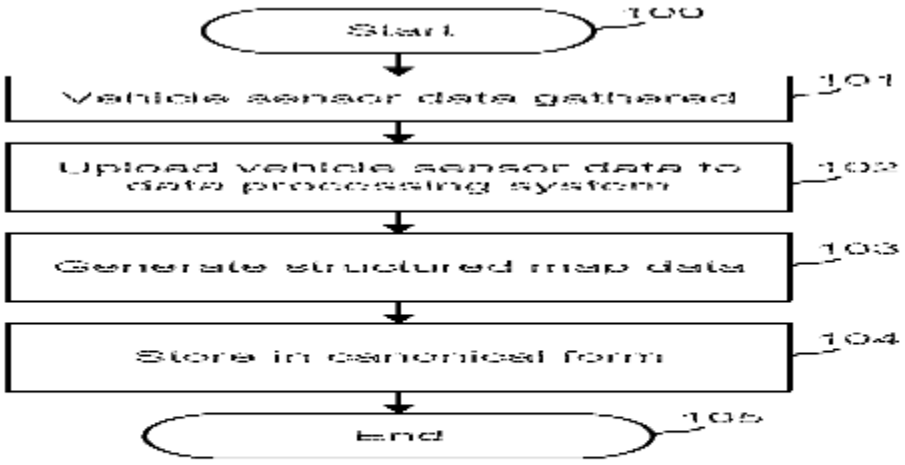


FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035586 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WIRELESS COMMUNICATION METHOD AND DEVICE

(51) International classification	:H04L0005000000, H04W0074080000, H04W0008000000, H04W0048180000, H04W0048200000
(31) Priority Document No	:201910106020.X
(32) Priority Date	:18/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/072693 :17/01/2020
(87) International Publication No	:WO 2020/147818
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)BAO, Wei
2)WU, Yumin

(57) Abstract :
Embodiments of the present disclosure disclose a wireless communication method and a device. The method is executed by a terminal device equipped with a plurality of smart cards, and comprises: sending a message for indicating that a plurality of UEs are associated with each other. The embodiments of the present disclosure further disclose another wireless communication method and a device.



图1

S102 Send a message for indicating that a plurality of UEs are associated with each other

No. of Pages : 19 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035626 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ASSESSING APPLICATIONS FOR DELIVERY VIA AN APPLICATION DELIVERY SERVER

(51) International classification	:G06F0021570000, G06N0020000000, G06F0009451000, G06F0011360000, F04B0049080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/US2019/022051 :13/03/2019
(87) International Publication No	:WO 2020/185224
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)LIN, Owen
4)FIRMAN, Ilya
5)IYER, Anil

(57) Abstract :
Analyzing or debugging applications is provided. The system identifies an action for an application provided by a developer. The system determines a first classification score based on historical execution of the action. The system generates a machine generated action for the application based on metadata associated with the application. The system determines a second classification score based on a comparison of the action with the machine generated action. The system selects, via a matching program, a second application that matches the application. The system determines a third classification score based on a comparison of an action approved for the second application with the action provided by the application developer. The system updates a delivery control parameter based on the first classification score, the second classification score and the third classification score. The system controls delivery of the application based on the delivery control parameter.

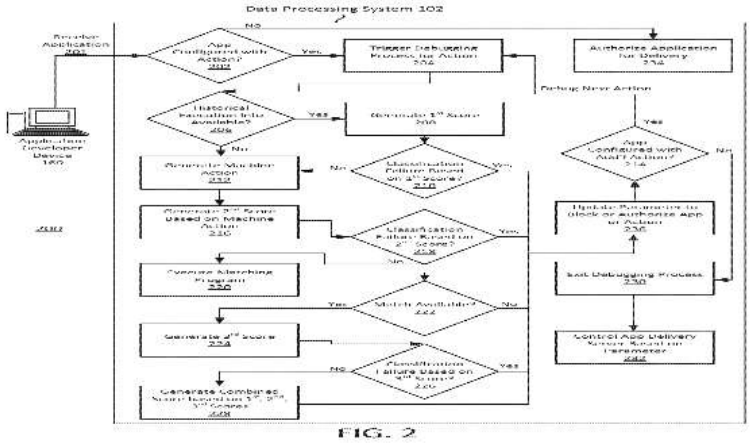


FIG. 2

No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035627 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POSITIONING METHOD AND DEVICE

(51) International classification	:G01S0019440000, G01S0005060000, G01S0005020000, G01S0019550000, G01L0001240000
(31) Priority Document No	:201910028366.2
(32) Priority Date	:11/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/125755 :16/12/2019
(87) International Publication No	:WO 2020/143403
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)DATANG MOBILE COMMUNICATIONS EQUIPMENT CO., LTD.
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(72)**Name of Inventor :**
1)DA, Ren
2)REN, Bin
3)MIAO, Deshan
4)LI, Hui
5)GAO, Xueyuan

(57) Abstract :
A positioning method and device used for solving the problems of the existing method for determining an integer ambiguity being relatively difficult and relatively time-consuming. During positioning, the method comprises: a receiving device determining a virtual phase measured value according to at least two received C-PRS signals (600); determining a TOA measured value according to a received PRS signal (601); determining a virtual integer ambiguity according to the TOA measured value and the virtual phase measured value (602); and finally, determining the position of the receiving device according to the virtual integer ambiguity (603). An integer ambiguity search space is reduced, and the integer ambiguity is determined faster, thus improving the efficiency of determining the position of the receiving device.

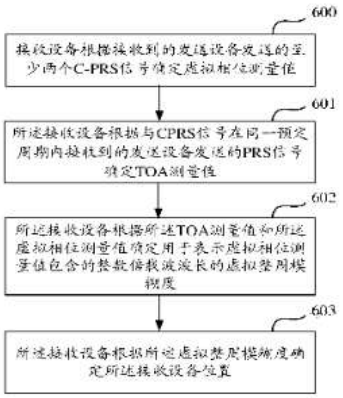


图 6

600 A receiving device determines a virtual phase measured value according to at least two received C-PRS signals sent by a sending device
601 The receiving device determines a TOA measured value according to a PRS signal received within the same predetermined period as the CPRS signals and sent by the sending device
602 The receiving device determines, according to the TOA measured value and the virtual phase measured value, a virtual integer ambiguity used for representing the wavelength of an integer carrier contained in the virtual phase measured value
603 The receiving device determines the position of the receiving device according to the virtual integer ambiguity

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035628 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : GENERATING AND PROVISIONING OF ADDITIONAL CONTENT FOR SOURCE PERSPECTIVE(S) OF A DOCUMENT

(51) International classification	:H04L0029060000, H04L0012260000, G06T0011200000, G06Q0010100000, H04L0001000000
(31) Priority Document No	:16/272610
(32) Priority Date	:11/02/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/017559 :10/02/2020
(87) International Publication No	:WO 2020/167695
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)GOOGLE LLC
Address of Applicant :1600 Amphitheatre Parkway Mountain View, California 94043 U.S.A.
(72)**Name of Inventor :**
1)CARBUNE, Victor
2)DESELAERS, Thomas

(57) Abstract :
Implementations described herein determine, for a given document generated by a given source, one or more portions of content (e.g., phrase(s), image(s), paragraph(s), etc.) of the given document that may be influenced by a source perspective of the given source. Further, implementations determine one or more additional resources that are related to the given source and that are related to the portion(s) of content of the given document. Yet further, implementations utilize the additional resource(s) to determine additional content that provides context for the portion(s) that may be influenced by a source perspective. A relationship, between the additional resource(s) and the portions of the given document, can be defined. Based on the relationship being defined, the additional content can be caused to be rendered at a client device in response to the client device accessing the given document.

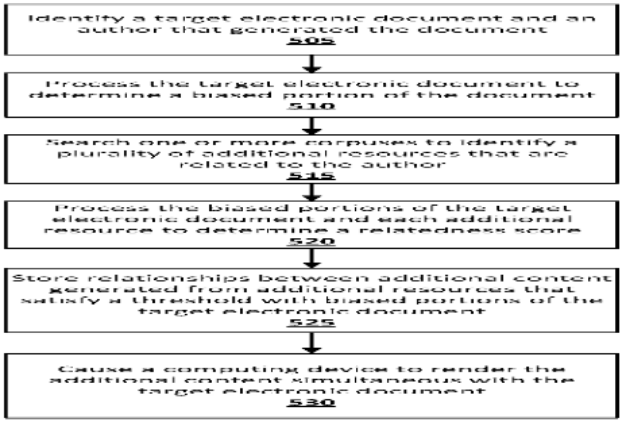


FIG. 5

No. of Pages : 68 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035629 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WIRELESS COMMUNICATION METHOD AND TERMINAL DEVICE

(51) International classification	:H04L0005000000, H04W0072040000, H04W0056000000, H04L0027260000, H04W0048100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2019/109312 :30/09/2019
(87) International Publication No	:WO 2021/062584
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :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)TIAN, Wenqiang
2)WU, Zuomin

(57) Abstract :
Embodiments of the present application relate to a wireless communication method and a terminal device. The method comprises: a terminal device detects a first type of synchronization signal block (SSB) on the frequency point of a non-synchronization raster; the terminal device determines, on the basis of the first type SSB, the frequency domain position of a control resource set CORESET of the remaining minimum system information (RMSI) associated with the first type of SSB. According to the wireless communication method and terminal device of the embodiments of the present application, the frequency domain position of the CORESET of the RMSI associated with the SSB on the non-synchronization raster can be effectively determined.

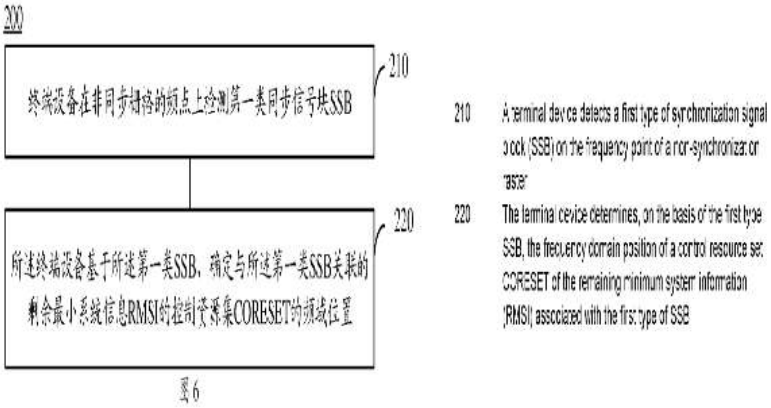


图6

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035643 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POWER BATTERY PACK AND ELECTRIC VEHICLE

(51) International classification	:H01M0002100000, H01M0010625000, H01M0010052500, B60K0001040000, H01M0010655400
(31) Priority Document No	:201910021244.0
(32) Priority Date	:09/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/092390 :21/06/2019
(87) International Publication No	:WO 2020/143174
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :No. 3009, BYD Road, Pingshan Shenzhen, Guangdong 518118 China
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1)HE, Long
2)SUN, Huajun
3)JIANG, Wenfeng
4)LU, Zhipei
5)ZHENG, Weixin
6)TANG, Jianglong
7)ZHU, Yan
8)WANG, Xinyue
9)HE, Kefeng

(57) Abstract :
A power battery pack and an electric vehicle. The power battery pack is fixed on the electric vehicle and is used for providing power for the electric vehicle. The power battery pack comprises a pack body and multiple single batteries provided in the pack body; each single battery has the length of L0, the width of H0, and the thickness of D0; at least one single battery satisfies that: L0>H0=D0, and the length direction of the single battery extends along the width direction of the vehicle body of the electric vehicle, and in the width direction of the electric vehicle, the sum of the length L0 of the single battery and the size W of the vehicle body of the electric vehicle in the width direction satisfy that: 46%=L/W=76%; or, at least one single battery satisfies that: L0>H0=D0, and the length direction of the single battery extends along the length direction of the vehicle body of the electric vehicle, and in the length direction of the electric vehicle, the sum of the length L0 of the signal battery and the size X of the vehicle body of the electric body in the length direction satisfy that: 40%=L0/X=76%.

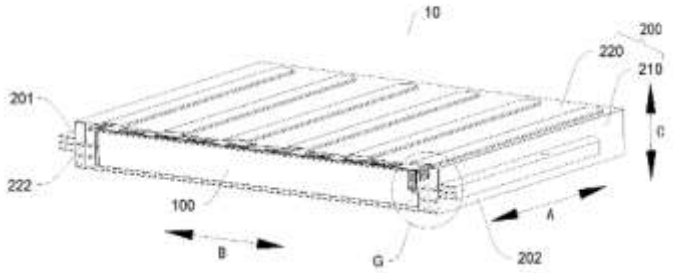


图 2

No. of Pages : 32 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202127035644 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TRACTOR UNITS FOR TRANSPORTING ELONGATED LOADS

(51) International classification	:B66F0009075000, F03D0013200000, B65G0007040000, B62D0053020000, B62D0007020000
(31) Priority Document No	:1901106.3
(32) Priority Date	:28/01/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2019/085230 :16/12/2019
(87) International Publication No	:WO 2020/156729
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)COMBILIFT
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(72)**Name of Inventor :**
1)MCVICAR, Martin
2)MOFFETT, Robert
3)MOFFETT, Josh
4)WHYTE, Mark

(57) Abstract :
A tractor unit is disclosed for transporting an elongated load such as a wind turbine blade or wind turbine tower segment. The tractor unit body is supported, driven and steered by a wheel set comprising at least three ground-engaging wheels. At least two of the wheels are steerable and can transform between an aligned mode of operation and a carousel mode of operation. In the aligned mode, the wheels are aligned with one another in a neutral steering position, and steerable to vary the direction of steering. In the carousel mode, the wheels of the wheel set are oriented with their axes of rotation intersecting at a substantially common vertical axis located within the lateral extent of the tractor unit body, so that when the wheels are driven the tractor unit spins about this common vertical axis. A load engagement mechanism is mounted pivotally on the tractor unit body about the common vertical axis. This allows the load engagement mechanism to be counter-rotated in an equal and opposite amount to the angular rotation of the tractor unit body in carousel mode, keeping the load in fixed position relative to the ground as the tractor unit spins.

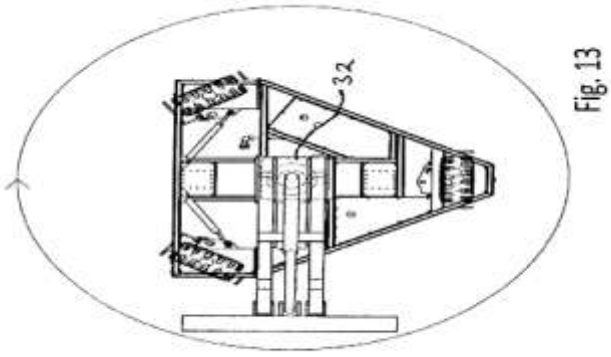


Fig. 13

No. of Pages : 16 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/08/2021

(21) Application No.202127035727 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POWER BATTERY PACK AND ELECTRIC VEHICLE

(51) International classification	:H01M0002100000, H01M0010613000, B60K0001040000, H01M0010625000, B60L0050640000
(31) Priority Document No	:201910021244.0
(32) Priority Date	:09/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/092393 :21/06/2019
(87) International Publication No	:WO 2020/143177
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)JIANG, Wenfeng
4)LU, Zhipei
5)ZHENG, Weixin
6)TANG, Jianglong
7)ZHU, Yan
8)WANG, Xinyue
9)HE, Kefeng

(57) Abstract :
A power battery pack and an electric vehicle, the power battery pack comprising: a pack body, an accommodating space being defined in the pack body, and at least one width direction beam or length direction beam being arranged in the pack body, the width direction beam extending along the direction of width of the power battery pack, and the length direction beam extending along the direction of length of the power battery pack, and the accommodating space being divided into a plurality of accommodating cavities by the width direction beam or the length direction beam; and a plurality of single cell batteries, the plurality of single cell batteries being disposed in the pack body and being directly arranged in the accommodating cavities, at least one single cell battery being arranged in each accommodating cavity to form a battery array. The power battery pack in the embodiments of the present application has the advantages of a high degree of space utilisation, high energy density, strong endurance capability, high reliability, low costs, and high quality.

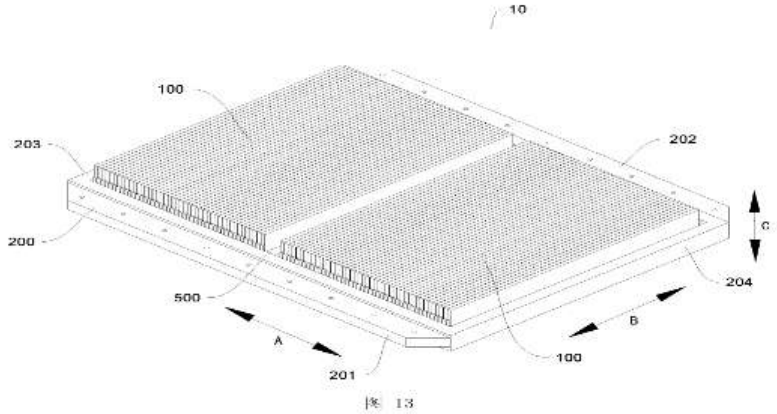


图 13

No. of Pages : 40 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/08/2021

(21) Application No.202127035761 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : POWER BATTERY PACK AND ELECTRIC VEHICLE

(51) International classification	:H01M0002100000, H01M0010613000, H01M0010655400, H01M0002200000, A45F0003040000
(31) Priority Document No	:201910021244.0
(32) Priority Date	:09/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/092392 :21/06/2019
(87) International Publication No	:WO 2020/143176
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)BYD COMPANY LIMITED
Address of Applicant :No. 3009, BYD Road, Pingshan Shenzhen, Guangdong 518118 China
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1)HE, Long
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3)JIANG, Wenfeng
4)LU, Zhipei
5)ZHENG, Weixin
6)TANG, Jianglong
7)ZHU, Yan
8)WANG, Xinyue
9)HE, Kefeng

(57) Abstract :
A power battery pack and an electric vehicle. The power battery pack comprises: a pack body; and a plurality of battery cells, the plurality of battery cells being directly arranged side by side within the pack body. The battery cells extend from a first side of the pack body to a second side of the pack body, the first side and the second side are provided opposite each other, the first side of the pack body is provided with a first side wall, and the second side of the pack body is provided with a second side wall. One ends of the battery cells are supported by the first side wall, and the other ends of the battery cells are supported by the second side wall.

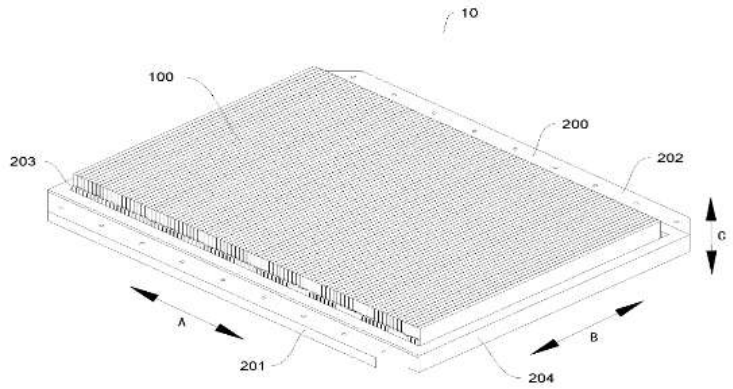


图 14

No. of Pages : 32 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/08/2021

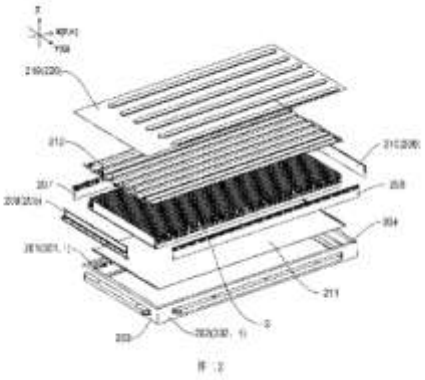
(21) Application No.202127035763 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BATTERY PACK, VEHICLE, AND ENERGY STORAGE DEVICE

(51) International classification	:H01M0002100000, H01M0010613000, H01M0010625000, H01M0010656300, H01M0010655400
(31) Priority Document No	:201910021244.0
(32) Priority Date	:09/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/092389 :21/06/2019
(87) International Publication No	:WO 2020/143173
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
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2)SUN, Huajun
3)JIANG, Wenfeng
4)LU, Zhipei
5)ZHENG, Weixin
6)TANG, Jianglong
7)ZHU, Yan
8)WANG, Xinyue
9)HE, Kefeng

(57) Abstract :
A battery pack, a vehicle, and an energy storage device. The battery pack comprises a battery array and a support member; the battery array comprises a plurality of single cells, the single cells have a first size, and the first size is the maximum value of the distance between two parallel planes virtually clamping the single cell; at least one single cell satisfies the following conditions: the first size is greater than or equal to 600 mm and less than or equal to 2500 mm, and the single cell is supported on the support member; the normal direction of the two parallel planes corresponding to the first size is a Q direction; a battery placement area is formed in the battery pack, and the battery array is located in the battery placement area; the single cell extends from one side of the battery placement area to the other side of the battery placement area in the Q direction.



No. of Pages : 59 No. of Claims : 112

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035832 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR SUPPORTING TIME SENSITIVE COMMUNICATION AND COMMUNICATION DEVICE

(51) International classification	:H04L0005140000, H04W0008240000, H04L0012723000, H04L0012240000, H04L0025000000
(31) Priority Document No	:201910028869.X
(32) Priority Date	:11/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/070878 :08/01/2020
(87) International Publication No	:WO 2020/143659
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)VIVO MOBILE COMMUNICATION CO., LTD.
Address of Applicant :#283, BBK Road,Wusha,Chang'an Dongguan, Guangdong 523860 China
(72)**Name of Inventor :**
1)KE, Xiaowan
2)WU, Yumin

(57) Abstract :
Provided by some of the embodiments of the present disclosure are a method for supporting time sensitive communication and a communication device, the method for supporting time sensitive communication which is applied to a first communication device comprising: sending first information and/or second information. The first information comprises at least one of the following: first capability information of a terminal UE and delay related information between the UE and a radio access network (RAN) network element. The second information comprises at least one of the following: the type of the UE, the type of a time sensitive network, and information indicating whether time sensitive data stream configuration information is required.

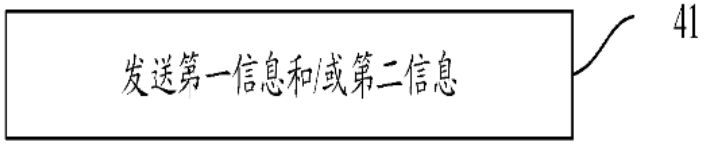


图4

41 Send first information and/or second information

No. of Pages : 60 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035843 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : LIGNOCELLULOSIC COMPOSITE ARTICLES

(51) International classification	:C08L0097020000, C08G0018760000, C09J0179020000, C09J0139020000, C09J0131040000	(71)**Name of Applicant :** **1)BASF SE** Address of Applicant :Carl-Bosch-Strasse 38 67056 Ludwigshafen Am Rhein Germany
(31) Priority Document No	:62/819020	(72)**Name of Inventor :** **1)MENTE, Donald, Charles**
(32) Priority Date	:15/03/2019	**2)LEON, Gustavo, E.**
(33) Name of priority country	:U.S.A.	**3)SCHEFFLER, Gene, Michael**
(86) International Application No Filing Date	:PCT/US2020/022258 :12/03/2020	
(87) International Publication No	:WO 2020/190611	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
Provided herein are lignocellulosic composite articles and methods for forming the same. In an aspect, the lignocellulosic composite articles comprise a plurality of lignocellulosic pieces derived from wood; together with an adhesive system disposed on the plurality of lignocellulosic pieces for bonding the plurality of lignocellulosic pieces. In an aspect, the adhesive system comprises a binder component comprising diphenylmethane diisocyanates (MDIs) and/or polymeric diphenylmethane diisocyanates (pMDIs), and a catalyst component comprising imidazole in a water solution.

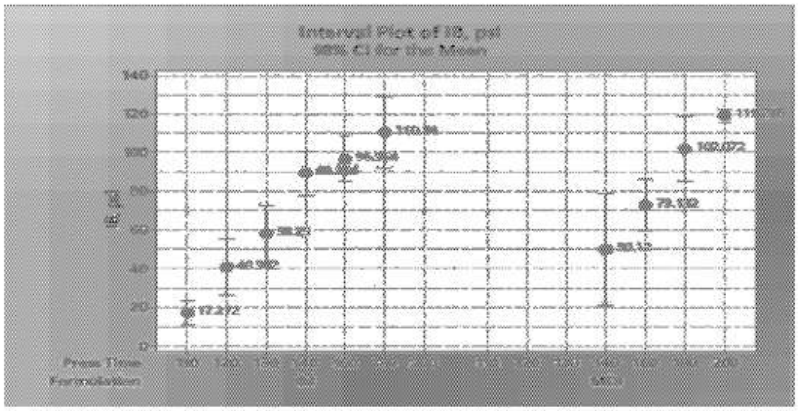


Fig. 1

No. of Pages : 38 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035844 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : ADHESIVES BASED ON CARBODIIMIDE CHEMISTRY

(51) International classification	:C08G0018420000, C08G0018760000, C08G0018400000, C08G0018480000, C08G0018790000
(31) Priority Document No	:19161285.2
(32) Priority Date	:07/03/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/055823 :05/03/2020
(87) International Publication No	:WO 2020/178380
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)ELING, Berend
2)AUFFARTH, Stefan
3)LINNENBRINK, Martin
4)ALBUERNE, Julio
5)MU, Linyu

(57) Abstract :
The present invention relates to a thermosetting resin composition, in particular for the use as adhesive, obtained or obtainable from the reaction of at least: a polycarbodiimide (i), wherein the number of carbodiimide groups per molecule is in the range of from 1 to 10; a mixture of crystalline and amorphous polyols (ii), wherein the molar ratio of carbodiimide groups in the polycarbodiimide according to (i) to hydroxyl groups in the mixture according to (ii) is in the range of from 1 :2 to 2:1 and wherein at least 25 weight-% of the mixture according to (ii) consists of at least one crystalline polyesterol, based on the overall weight of the mixture being 100 weight-%. The invention further relates to the use of said thermosetting resin composition as adhesive, as well as to processes for preparation of adhesives, an element comprising an adhesive layer on at least one substrate and to an adhesive film, obtained or obtainable from one of the processes.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035845 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD FOR PRODUCING A MOULDED BODY THAT ENCLOSES A CAVITY BY WELDING TWO PARTIAL BODIES, AND DIE FOR WELDING TWO PARTIAL BODIES

(51) International classification	:B29C0048000000, B29C0064153000, B29K0101120000, B29C0048090000, B33Y0080000000
(31) Priority Document No	:19157240.3
(32) Priority Date	:14/02/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/052773 :04/02/2020
(87) International Publication No	:WO 2020/164978
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)BASF SE
Address of Applicant :Carl-Bosch-Straße 38 67056 Ludwigshafen Germany
(72)**Name of Inventor :**
1)MOCHEV, Stefan
2)ENDEMANN, Ulrich

(57) Abstract :
The present invention relates to a method for producing a moulded body that encloses a cavity by welding two partial bodies (1a, 1b), and to a die (5) by means of which the method for producing the moulded body can be carried out. The present invention also relates to the moulded body that can be obtained by the method according to the invention.

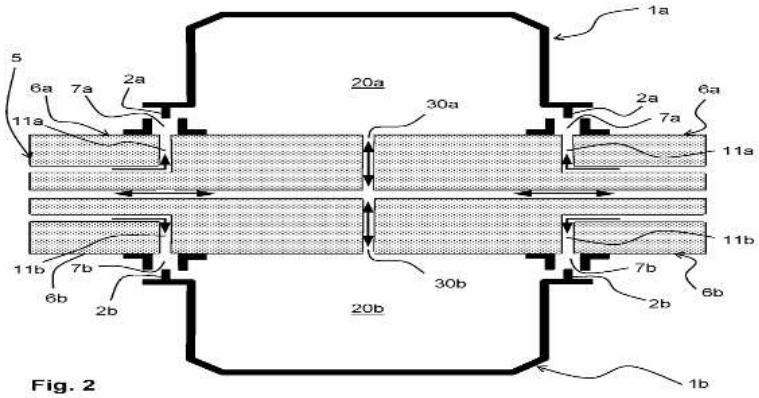


Fig. 2

No. of Pages : 28 No. of Claims : 15

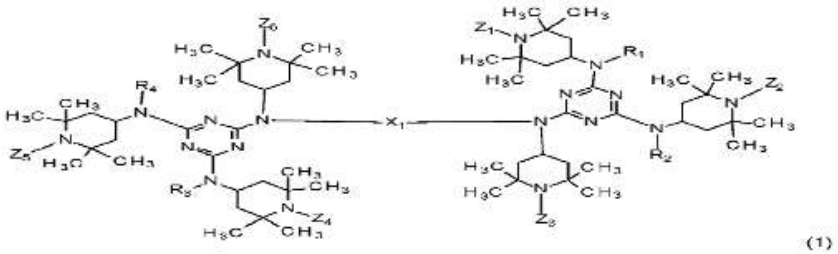
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035846 A
(43) Publication Date : 15/10/2021

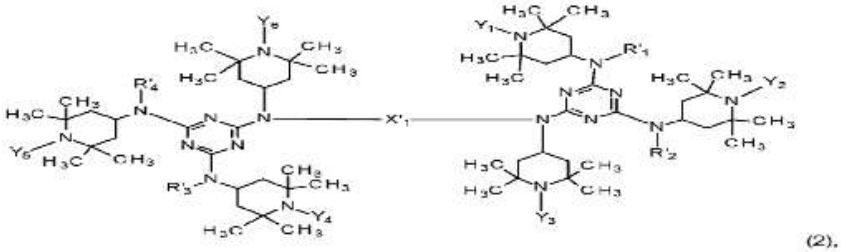
(54) Title of the invention : STERICALLY HINDERED AMINE STABILIZER MIXTURES

(51) International classification	:C09K0015300000, C07D0401140000, C09B0057080000, C08K0005349200, C07D0493060000	(71)**Name of Applicant :** **1)BASF SE** Address of Applicant :Carl-Bosch-Strasse 38 67056 Ludwigshafen am Rhein Germany
(31) Priority Document No	:19161580.6	(72)**Name of Inventor :**
(32) Priority Date	:08/03/2019	**1)VITALI, Manuele**
(33) Name of priority country	:EPO	**2)MONTRONI, Elisa**
(86) International Application No	:PCT/EP2020/055754	**3)PORI, Matteo**
Filing Date	:04/03/2020	**4)CAPITO', Elena**
(87) International Publication No	:WO 2020/182587	**5)KRANEMANN, Christian**
(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 mixtures of sterically hindered amines of the formulae (1) and (2) wherein at least one of the radicals Z1, Z2, Z3, Z4, Z5 and Z6 is C1-C18 alkyloxy or C5-C7 cycloalkyloxy and the remaining of the radicals Z1, Z2, Z3, Z4, Z5 and Z6 are hydrogen, hydroxy, C1-C18 alkyloxy or C5-C7 cycloalkyloxy, and at least one of the radicals Y1, Y2, Y3, Y4, Y5 and Y6 is a group of formula -CH2-CH=CH-R and the remaining of the radicals Y1, Y2, Y3, Y4, Y5 and Y6 are hydrogen or a group of formula -CH2-CH=CH-R, and the other substituents are as defined according to the present invention, methods for stabilization of an organic material, and a process for the preparation of compounds of formula (1').



(1)



(2).

No. of Pages : 35 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035884 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CONNECTION ESTABLISHING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE

(51) International classification	:H04L0029060000, H04W0088040000, H04W0076100000, H04W0008140000, H04W0076110000
(31) Priority Document No	:201910028434.5
(32) Priority Date	:11/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/071371 :10/01/2020
(87) International Publication No	:WO 2020/143754
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LIANG, Jing
2)JI, Zichao
3)ZHENG, Qian
4)LIU, Siqi
5)WANG, Wen

(57) Abstract :
The present disclosure provides a connection establishing method, a terminal device, and a network device. The connection establishing method comprises: sending a first request message to a network device, wherein the first request message is used to request from the network device information related to a unicast connection between a first terminal device and a second terminal device; and receiving a first response message sent by the network device.

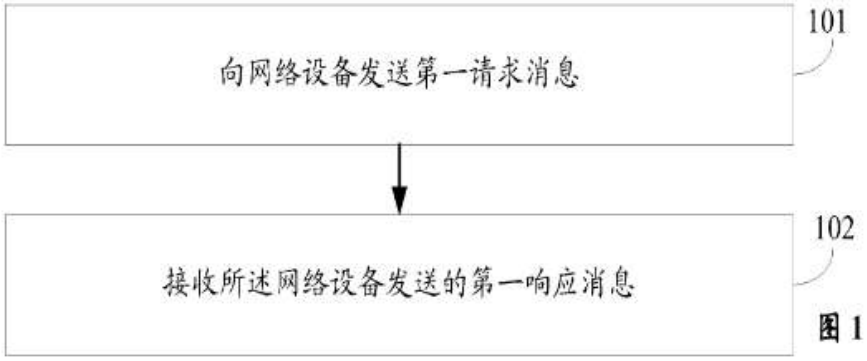


图 1

101 Send a first request message to a network device
102 Receive a first response message sent by the network device

No. of Pages : 60 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035885 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR INHIBITION OF LINEAGE SPECIFIC ANTIGENS

(51) International classification	:C07K0016280000, A61K0035120000, C12N0005078900, C07K0014725000, A61K0039000000
(31) Priority Document No	:62/793210
(32) Priority Date	:16/01/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/013887 :16/01/2020
(87) International Publication No	:WO 2020/150478
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Address of Applicant :412 Low Memorial Library 535 West 116th Street New York, NY 10027 U.S.A.
(72)**Name of Inventor :**
1)MUKHERJEE, Siddhartha
2)BOROT, Florence
3)ALI, Abdullah, Mahmood

(57) Abstract :
Disclosed herein are methods of administering an agent targeting a lineage-specific cell- surface antigen, e.g., CD33, and a population of hematopoietic cells that are deficient in the lineage-specific cell-surface antigen, e.g., CD33 for immunotherapy of hematological malignancies. Cells comprising mutations in CD33 are also provided, as are gRNAs targeting CD33.

No. of Pages : 131 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035903 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SIGNAL TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE

(51) International classification	:H04W0072040000, H04L0005000000, H04W0072120000, H04L0001000000, H04W0024020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2019/074705 :03/02/2019
(87) International Publication No	:WO 2020/155179
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :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)CHEN, Wenhong
2)FANG, Yun

(57) Abstract :
Embodiments of the present application disclose a signal transmission method, a terminal device, and a network device. The method comprises: a terminal device determining, according to a sounding reference signal resource indicator (SRI) in scheduling information, a plurality of sounding reference signal (SRS) resources or a plurality of SRS resource sets, wherein the scheduling information is used to schedule a plurality of physical uplink shared channels (PUSCH), and the plurality of SRS resources or the plurality of SRS resource sets correspond to the plurality of PUSCHs; and the terminal device determining, according to the plurality of SRS resources or the plurality of SRS resource sets, transmission parameters of the plurality of PUSCHs. The method, the terminal device and the network device in the embodiments of the present application help to achieve the purpose of improving transmission reliability in repeated PUSCH transmissions.

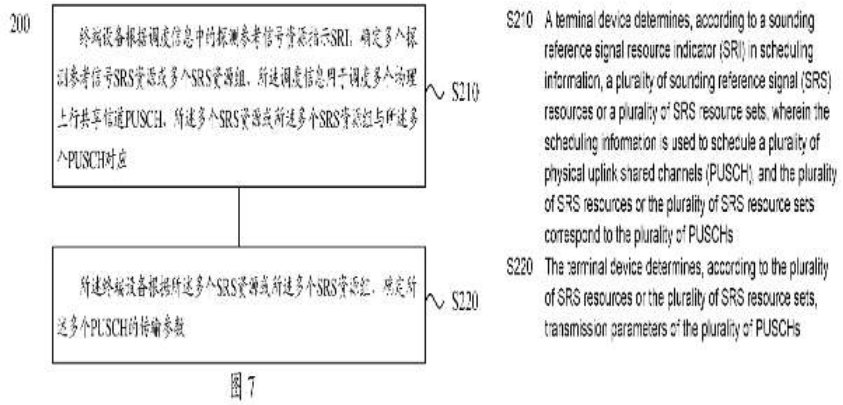


图 7

No. of Pages : 42 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202127035904 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : EVENT SUBSCRIPTION NOTIFICATION METHOD, NETWORK SIDE DEVICE, APPLICATION ENTITY, INTERNET OF THINGS SYSTEM AND STORAGE MEDIUM

(51) International classification	:G06F0008300000, G06F0003140000, C12N0015820000, G06F0040211000, C12Q0001689500
(31) Priority Document No	:201910032326.5
(32) Priority Date	:14/01/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/071897 :14/01/2020
(87) International Publication No	:WO 2020/147700
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)BOE TECHNOLOGY GROUP CO., LTD.
Address of Applicant :No.10 Jiuxianqiao Rd., Chaoyang District Beijing 100015 China
2)BEIJING BOE TECHNOLOGY DEVELOPMENT CO., LTD.
(72)**Name of Inventor :**
1)ZHAO, Junjie
2)SU, Jing
3)ZHANG, Qian

(57) Abstract :
Provided in the present disclosure is an event subscription notification method. The event subscription notification method comprises: creating subscription resources, the subscription resources comprising event notification rules; determining whether subscription data complies with the event notification rules; and if yes, generating an event notification.

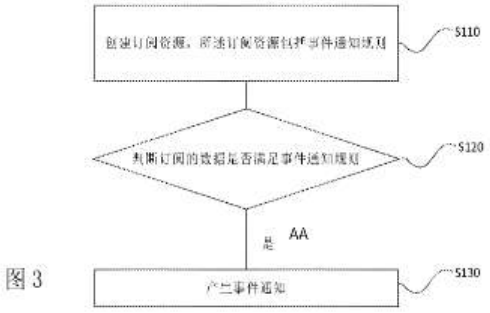


图 3

S110 CREATE SUBSCRIPTION RESOURCES, THE SUBSCRIPTION RESOURCES COMPRISING EVENT NOTIFICATION RULES
S120 DETERMINE WHETHER SUBSCRIPTION DATA COMPLIES WITH THE EVENT NOTIFICATION RULES
S130 GENERATE AN EVENT NOTIFICATION
AA YES

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.201941040826 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD AND DEVICE FOR PROVIDING PERSONALISED HAEMODIALYSIS FOR A SUBJECT

(51) International classification	:A61M0001160000, A61B0005000000, A61M0001360000, A61B0005021000, A61M0001280000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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Address of Applicant :#19-19/1, 2nd floor, South End road, Basavanagudi, 560004, Karnataka, India. Karnataka India
(72)**Name of Inventor :**
1)MAHABALESWARA RAMA BHATT
2)AJAY SHARMA
3)SHYAM VASUDEVA RAO
4)VINCENT LLYOD

(57) Abstract :
The present disclosure is related to a method and system for providing personalised haemodialysis for a subject. The method includes obtaining concentration of electrolytes and of metabolic content in blood sample flowing into and out of a dialyser through first blood bypass tube and a second blood bypass tube, respectively. The first and the second blood bypass tube are arranged in first sensor and second sensor. Similarly, concentration of electrolytes and metabolic content in dialysate fluid flowing into and out of dialyser through first and second dialysate tube, respectively. The first dialysate tube and the second dialysate tube are arranged to pass through third sensor and fourth sensor. Further, variations are identified in concentration obtained for electrolytes and metabolic content in blood sample with respect to concentration obtained for electrolytes and metabolic content in dialysate fluid, respectively. Thereafter, removal of the electrolytes and metabolic content is performed from blood sample. FIG.1

No. of Pages : 36 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

(21) Application No.201941041366 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : WASTE DISPOSAL AND DISTRIBUTION SYSTEM AND METHOD FOR WASTE ORGANIZATION AND CASH INCENTIVES FOR WASTE PROVIDERS

(51) International classification	:G06Q0030020000, G09B0019000000, G07F0019000000, B65F0001140000, G01G0019414000	(71)**Name of Applicant :** **1)M.Tanmai Sree** Address of Applicant :Flat No.502 & 503, Akash Ganga Complex, Beside Perika Bhavan, Khairthabad, Hyderabad-500004 Telangana India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Mynampati Venkata Poorna Chandra Rao**
(33) Name of priority country	:NA	**2)M.Tanmai Sree**
(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 WASTE DISPOSAL AND DISTRIBUTION SYSTEM AND METHOD FOR WASTE ORGANIZATION AND CASH INCENTIVES FOR WASTE PROVIDERS The present disclosure relates to a waste disposal system and method of use. An automatic System and process for Waste Collection, Segregation, Cash incentives for waste providers and distribution of Collected Waste. The said system is equipped with the Sensors to identify the nature of waste for the purpose of segregation and allocation of cash incentive to the provider of the waste. The sensors identify either Dry Waste or Wet Waste. The system equipped with weighing machine, which measures the weight of the waste provided by the user. Based on the nature of waste identified by the sensors and weight of identified by the weighing machine, the system is further designed to dispense the cash from it to the waster provider (User of the system). Encouraging by cash incentives, the users of the system will be habituated to dispose of waste at the System and make money out of it.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015497 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A VEHICLE

(51) International classification	:H01M0008066200, B60K0006480000, F21V0009300000, B60K0017160000, B25C0001080000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)TVS Motor Company Limited
Address of Applicant :TVS Motor Company Limited,Chaitanya", No. 12, Khader Nawaz Khan Road, Nungambakkam, Chennai – 600006 Tamil Nadu India
(72)**Name of Inventor :**
1)ANKIT RAWAT
2)MUGILAN MEIBALAN
3)ASHUTOSH
4)CHITHAMBARAM SUBRAMONIAM

(57) Abstract :
The present invention relates to a conversion assembly for a multi wheeled vehicle (100). The conversion assembly (201) includes an electric machine (201B) operatively connected to a transmission assembly and a housing (201A). The housing (201A) configured to have at least one electronic component (402A, 402B) and at least one electrochemical cell (404). The conversion assembly (201) gives economical solution to customers in terms of efficiency to convert an internal combustion powered vehicle running on hydrocarbon-based fuel into an alternative fuel based vehicle.

No. of Pages : 37 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015498 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A BATTERY MODULE

(51) International classification	:H01M0002100000, H01M0010613000, H01M0010655700, H01M0010647000, H01M0002020000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Senthilnathan Subbiah
2)Anaugh Banarjee
3)Sivanesaselvam Thangarajan

(57) Abstract :
A battery module (100) and a method of assembly of the battery module (100) is disclosed. The battery module includes cells (203) positioned in cell holders (204, 205) and a casing (101). A cell support structure (210) is integrated with a first inner surface (108a) of the casing (101) for establishing a thermal contact between the cells (203) and the first inner surface (108a). Further, the battery module (100) includes a flexible member (209) positioned between a second inner surface (102a) of the casing (101) and one of the cell holders (205) for exerting pressure on the cell holders (204, 205). A thermal interface member (207) is in contact with at least one of the cell holders (204, 205). The flexible member (209), the thermal interface member (207), and the cell support structure (203) package the cells efficiently, making the battery module (100) mechanically stable, impact resistant, and vibration proof.

No. of Pages : 28 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015506 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF LERCANIDIPINE HYDROCHLORIDE AND INTERMEDIATES THEREOF

(51) International classification	:C07D0473180000, C07D0333540000, C07D0211760000, C07K0001113000, C04B0035493000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)Maithri Drugs Private Limited
Address of Applicant :Maithri Drugs Private Limited, Sy. No: 205, 222 to 226, IDA Bonthapally, Bonthapally (Vil), Gummadidala (Mdl) Sangareddy (Dist), Telangana, India – 502 313. Telangana India
(72)**Name of Inventor :**
1)Chakilam Nagaraju
2)Achampeta Kodanda Ramprasad
3)Rebelli Pradeep
4)Mutyala Anil Kumar

(57) Abstract :
Abstract The present application relates to an improved process 5 for the preparation of Lercanidipine Hydrochloride and intermediates thereof, which is represented by the following structural formula-1. 10 Formula-1

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015520 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATED GRADING

(51) International classification	:G09B0007020000, G09B0007000000, G06Q0010060000, G06Q0050200000, G06F0016245700
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
1)SMARTAIL PRIVATE LIMITED
Address of Applicant :No. 39, 2nd Floor, Suite #1323, NGEF Lane, Indiranagar, First Stage, Bangalore 560038 Karnataka, India. Karnataka India
(72)**Name of Inventor :**
1)Swaminathan Ganesan

(57) Abstract :
SYSTEM AND METHOD FOR AUTOMATED GRADING ABSTRACT A method for automated grading that configures a question paper with plurality of sections and a corresponding answer key through an assessor by a processor 122 of an application server 102, and receives a plurality of answer sheets each having a plurality of sections and tagged to a learner and further authenticates the assessor for assessing the plurality of the answer sheets, thereby creating a schema of the plurality of the sections of the plurality of the answer sheets. The method further generates a context based review report 350 of the plurality of the sections by comparing elements of the schema with the answer key using a self-learning assessment model 242 to validate and calculate a respective score of the learner based on the validated report 350 for the plurality of the sections of the plurality of the answer sheets. FIGURE.1

No. of Pages : 33 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015523 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF PENCICLOVIR AND INTERMEDIATES THEREOF

(51) International classification	:C07D0403040000, C07D0239860000, C07D0239720000, C09D0011322000, C07D0401040000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Chakilam Nagaraju
2)Achampeta Kodanda Ramprasad
3)Rebelli Pradeep
4)Nalla Naresh

(57) Abstract :
Abstract 5 The present application relates to an improved process for the preparation of Penciclovir, and intermediates thereof; which is represented by the following structural formula-I. 10 Formula-I

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015524 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PROCESS FOR THE PREPARATION OF 4-PHENYL-3-MORPHOLINONE

(51) International classification	:C07D0477200000, B01J0035080000, B24D0011000000, G01J0001420000, C07C0007140000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)VENUGOPAL BINGI

(57) Abstract :
Disclosed herein is an improved, cost effective and industrially advantageous process for the production of 4-Phenyl-3-morpholinone with high yield and high purity.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015525 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SUBSTRATE COATED WITH A THERMAL MANAGEMENT MATERIAL

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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1)SHREENATH ANANDAKRISHNAN
2)KUAN-TING WU

(57) Abstract :
Herein is described a substrate coated with a thermal management material for an electronic device, wherein the thermal management material comprises: a thermal conductive coat deposited on the substrate; and a heat insulation coat deposited on the thermal conductive coat, wherein the heat insulation coat comprises a plant root powder and a resin. A process for coating the substrate with a thermal management material, and an electronic device having a housing comprising a thermal management material is also described herein. [Fig. 1]

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020
(21) Application No.202041015548 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A LIGHT REDIRECTING PRISM, A REDIRECTING PRISMATIC WALL AND A SOLAR PANEL INCORPORATING THE SAME

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Balaji Bangolae Lakshmikanth
2)Lakshmi Santhanam
3)Deepika Gopal

(57) Abstract :
ABSTRACT A LIGHT REDIRECTING PRISM, A REDIRECTING PRISMATIC WALL AND A SOLAR PANEL INCORPORATING THE SAME The present disclosure relates to light redirecting elements in solar energy absorption systems and envisages a light redirecting prism, a redirecting prismatic wall and a solar panel incorporating the same. The light redirecting prism has three elongate surfaces. The incident surface receives incident parallel rays of light. The redirecting surface performs total internal reflection of the light travelling from the incident surface through a predetermined range of angles and thus redirect the light. The transmitting surface transmits the redirected light at a predetermined angle out of the prism and directs the light towards a solar energy absorbing device. Further, a redirecting prismatic wall can be constructed to comprise redirecting prisms. The light redirecting prism or redirecting prismatic wall can be used in solar panels for enhancing quantum of light incident on the PV cell of the panel.

No. of Pages : 129 No. of Claims : 57

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015593 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : IMPROVED MASK FOR REDUCING HEALTHCARE ASSOCIATED DISEASES TRANSMISSION

(51) International classification	:A62B0023020000, A01K0013000000, C23C0014040000, F21S0043500000, A61F0013380000
(31) Priority Document No	:NA
(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

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2)KB, Gururaj
3)SHARMA, Rakesh
4)KULKARNI, Vikas
5)S K., Raghunath
6)DEY, Aabir

(57) Abstract :
An improved, efficient and cost-effective face mask to reduce healthcare associated disease transmission is disclosed. The disclosed mask comprises a front transparent housing 102 that is made of plastic material like PP, PET and PVC, and side portions that are configured with the plastic front housing to cover area around the front housing. The side portions are made of using non-woven cotton and breathable material with a filter. The disclosed mask includes an elastic band to help using/accommodating the mask for different user with different face sizes. The front housing is provided with two or more holes that facilitate provision for nasal or oral swab stick to go inside the user during swabbing.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015600 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : METHOD TO HANDLE CONDITIONAL CONFIGURATION STORED IN UE AND CONDITIONAL FAILURES

(51) International classification	:H04W0024100000, H04L0012540000, H04W0076200000, H04W0080040000, H04W0084080000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Fasil Abdul Latheef
2)Mangesh Abhimanyu Ingale

(57) Abstract :
ABSTRACTMethod for handling conditional configuration stored in UE" Embodiments herein provide a method for handling a conditional configuration stored in a UE (100). The method includes receiving, by the UE (100), a RRC message indicating a release of a SCG from a MN (200). Further, the method includes releasing, by the UE (100), a stored CPC configuration and a variable storing a CPC configuration in response to receiving the RRC message indicating the release of the SCG. FIG. 2

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015623 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A COLOSTOMY DEVICE WITH A MANUAL VALVE FOR END COLOSTOMY

(51) International classification	:A61F0005445000, A61M0003020000, F16L0057000000, F16L0055100000, F04B0001320000	(71)**Name of Applicant :** **1)SINDHU RADHA SADASIVAN NAIR** Address of Applicant :TC 6/2135, SREESAILAM, ULLOOR-AKKULAM ROAD, TRIVANDRUM,KERALA,India 695031 Kerala India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)SINDHU RADHA SADASIVAN NAIR**
(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 colostomy device (100) for manually controlling emptying of stoma effluent from a temporary or permanent colostomy opening. Accordingly, said device (100) comprising a tube (102) having a first end and a second end defining a channel therein. The outer circumference of the first end has a holding mechanism (102A) and the channel inside has a valve mechanism (102B). A hollow disc (104) positioned at the second end of the tube (102) comprises a control system having plurality of ports (104A, 104B, 104C) on the outer circumference for controlling the holding mechanism (102A), the valve mechanism (102B), and the irrigation. Further the device (100) comprises a covering lid (106) facing the tube (102) provided at the second end for opening and closing of the tube (102). For publication, figure 1

No. of Pages : 17 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015628 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MACRANTHONIN – NOVEL PHYTOCHEMICAL POSSESSING CYTOTOXIC EFFECTS AGAINST BREAST CANCER CELLS

(51) International classification	:G01N0033500000, A61K0031350000, A61K0031445000, C07K0014705000, C07D0311720000
(31) Priority Document No	:NA
(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

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3)HIREMATH, M. B.
4)KALEBAR, Riya V.
5)HIREMATH, S. V.
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1)KALEBAR, Vishal U.
2)HOSKERI, Joy H.
3)HIREMATH, M. B.
4)KALEBAR, Riya V.
5)HIREMATH, S. V.

(57) Abstract :
The present invention is related to the isolation of novel phytochemical from the S. macranthum fruits, which is named asMacranthonin" and there by evaluation of its cytotoxic property on the MDA-MB-231 breast cancer cell line and MEF-L929 transformed normal cell line. The invention discloses that the isolated novel phytochemical Macranthonin inhibits the cell proliferation by inducing apoptosis in MDA-MB-231 cell line, while rendering less toxicity against the transformed normal cell line MEF-L929.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015632 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AN ANTIFUNGAL SYNTHETIC PEPTIDE DERIVED FROM OSMOTIN PROTEIN

(51) International classification	:B65D0051280000, B65D0090020000, F26B0013000000, B65D0090000000, E21B0034100000
(31) Priority Document No	:NA
(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

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1)S. Manjula

(57) Abstract :
Attached Separately

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015638 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DETECTING FAULT DURING DEAD TIME OF AUTO-RECLOSING PERIOD

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000
(31) Priority Document No	:NA
(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

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1)MATURU, Suresh
2)SRIVASTAVA, Sachin
3)G, Arulselvan
4)NAIDU, Obbalareddi Demudu

(57) Abstract :
Examples for detecting a fault during dead time of an auto-reclosing period in a three-phase power transmission system are described. In an example, local current and voltage measurements are obtained for each phase of one or more power transmission lines. Thereafter, one or more of magnitudes of zero sequence and negative sequence quantities and phase difference between three phase quantities are calculated. Examples of comparing the magnitudes of one of the zero and negative sequence quantities in the one or more power transmission lines, or the phase differences are described for detecting a fault in the one or more power transmission lines. Thereafter, protection function is enabled for faulted power transmission line in response to detecting the fault

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015639 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : DIAGNOSTIC TESTS FOR COMPUTING DEVICES

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000
(31) Priority Document No	:NA
(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

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1)SUSEELAN BHARGAVI, Sarin
2)NANJUNDA REDDY, Somashekara

(57) Abstract :
Examples for servicing a computing device by a servicing agent are described. In an example, the servicing agent receives a first set of information which includes device information corresponding to the computing device. Further, the servicing agent receives a second set of information during a second session, wherein the second set of information is received through a user input and is indicative of a state of the computing device. The servicing agent further processes the first set of information and the second set of information to determine a diagnostic test. The servicing agent causes to execute the diagnostic test on the computing device.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015645 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : COVE LIGHT POVISIONING MECHANISMS

(51) International classification	:F21V0007000000, F21V0033000000, B64D0045020000, E04B0009300000, F21S0008000000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Jay Sah

(57) Abstract :
The present invention generally relates to indirect lightening in the ceiling gypsum pop false and particularly relates to providing cove light effect. It also relates to module system with indirect lighting features. An object of the present invention is to provide readymade false ceiling with lightning fixtures. Another object of the present invention is to provide good mood lightning in the room.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015646 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : INTERLOCKING MECHANISM FOR CEILING PANEL LIGHT STRUCTURES AND CEILING DECOR PRODUCT

(51) International classification	:B65D0021020000, F21V0021340000, F21S0002000000, F21V0099000000, F21V0021030000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Jay Sah

(57) Abstract :
A system for fixing a lighting module to a ceiling surface comprises of a base module 102 includes a first face faces the ceiling surface and a second face opposite to the first face faces a ground, a face panel includes a first face overlaps the second face of the base module 102 and a second face opposite to the first face faces the ground, at least two frames 106, each positioned on at least one side edge of the base module 102 and the face panel for covering at least one side edge of the base module 102 and the face panel and at least two interlocking clamps 108 for connecting the base module 102 and the face panel, operates in a locked positioned and an unlocked position upon rotation of each of the at least two clamps 108 in a predefined direction at a defined angle.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015647 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : FAN PROVISION MODULE FOR CEILING DECOR

(51) International classification	:F04D0025080000, E04B0009000000, E04B0009300000, F04D0029600000, E04B0009040000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Jay Sah

(57) Abstract :
The present invention generally relates to an assembly of ceiling fan and false ceiling panel. It also relates to resisting the insects and dust into the hole in the false ceiling. It enables servicing/repair of fan without needing to uninstall the ceiling product first or without damaging/altering the portion of ceiling décor product close to fan rod- by providing thorough out sufficient passage between fan rod and the ceiling product.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015648 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : MECHANISMS TO PREVENT STROBING EFFECT

(51) International classification	:F04D0025080000, F21V0033000000, G03B0021160000, F24F0007007000, F04D0029340000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Jay Sah

(57) Abstract :
A system for preventing strobing effect comprises of a base module 102 wherein a first face of the base module 102 faces the ceiling surface and a second face opposite to the first face faces a ground, a face panel 104 includes a first face overlapping the second face of the base module 102 and a second face of the face panel opposite to the first face faces the ground, at least two frames 106 for covering at least one side edge of the base module 102 and the face panel 104 and a plurality of light module 110 positioned on at least one side of the face panel for reducing strobing effect, wherein the light module 108 is placed vertical to the face panel at an extreme end of at least one side for avoiding obstacles in path of light due to a cooling module 110.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/04/2020

(21) Application No.202041015667 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A THERAPEUTIC COMPOSITION

(51) International classification	:A61K0031525000, A61K0035747000, A61K0036064000, C07D0519000000, A61K0031510000
(31) Priority Document No	:NA
(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

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1)Pandurangan Prabhakaran

(57) Abstract :
Abstract The present invention relates to an enzobiotic therapeutic combination, process for their preparation, enzobiotic therapeutical compositions containing them and their use as a therapeutic supplement or a nutritional supplement or a food supplement in renal diseases and disorders. The said combination comprising a therapeutically effective amount of: a) a synbiotic comprising at least one prebiotic and at least one probiotic and b) at least one proteolytic enzyme. The present invention further relates to kits and methods of using them. The enzobiotic combination and the enzobiotic composition comprising the said combination is particularly useful as a therapeutic supplement or a nutritional supplement or a food supplement to prevent formation of protein bound uremic toxins generated by undigested protein, to postpone dialysis and improve quality of life in subjects suffering from chronic kidney disease and end stage renal disease.

No. of Pages : 99 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

(21) Application No.202041015699 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A NOVEL VENTILATOR BASED ON A PRECISION AIR PUMP

(51) International classification	:A61M0016000000, A47J0031320000, A61M0016040000, A01K0063040000, A61B0005091000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)Konda Vishweshwar Reddy

(57) Abstract :
A Novel Ventilator Based on A Precision Air Pump The present disclosure proposes a ventilator with a precision air pump comprises an air compressor 101, a first pressure chamber 102, a second pressure chamber 105, plurality of flow sensors 112, an exhalation valve 116 and a microcontroller 119. The mechanical ventilator with precision air pump automatically controls the air supply to the patient based on the breathing requirement of the patient. Further, the ventilator aids to eliminate use of precise sensors in ventilators by regulating release of air using precision pump for mechanical ventilators and thereby reducing the cost. The ventilator efficiently delivers a precise set volume of air for each breathing cycle at a precise pressure at low cost.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

(21) Application No.202041015701 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : PERENNIAL TABLE SALT DISPENSER

(51) International classification	:A23L0027400000, A47G0019240000, H04N0005232000, A63F0009040000, A23C0019064000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)R. PRAKASH URS

(57) Abstract :
The present disclosure relates to a perennial table salt dispenser and a method for operating the perennial table salt dispenser. The perennial table salt dispenser is a unique dining table, which will easily dispense the salt, in all the seasons without getting struck by moisture. Instead of shaking entire container, just pressing the bellow button is sufficient and one can be sure of getting salt dispensed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

(21) Application No.202041015738 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : BIOMARKERS, AND ASSOCIATED METHODS FOR DETECTING BACTERIAL AND VIRAL INFECTIONS IN A BLOOD SAMPLE

(51) International classification	:G01N0033569000, G01N0033680000, C12Q0001689000, G01N0033574000, C07K0016120000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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1)CHANDRA, Nagasuma
2)RAVICHANDRAN, Sathyabaarathi

(57) Abstract :
AS ATTACHED

No. of Pages : 91 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

(21) Application No.202041015744 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : NOVEL SYSTEM, METHOD, IDEA AND DESIGN OF SELECTIVE DISINFECTANT SPRAY PATHWAY (SDSP)

(51) International classification	:A61B0005010000, G01K0013000000, G08B0017000000, G06K0009000000, A61L0002180000
(31) Priority Document No	:NA
(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

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1)HARIRAJ RAJKUMAR
2)DURAIRAJ RAJKUMAR

(57) Abstract :
The patent disclosure covers Novel System, Method, Idea and Design of Selective Disinfectant Spray Pathway (SDSP). At present, public groups needs to be cleaned because it is flocked by huge crowds. This requires a lot of manual effort and time. Main focus of this patent is to sanitize the group from the Corona virus by use of high safety devices and smart sensors. An UV based disinfection system would be efficient in killing the virus as well as faster cleaning cycle time. It also focuses far-UVC light (207–222 nm) efficiently which inactivates bacteria without harm to exposed mammalian skin. This is because, due to its strong absorbance in biological materials, far-UVC light cannot penetrate even the outer layers of human skin or eye. The Thermal Imaging Camera can help detect elevated body temperatures which may indicate the presence of a fever, a symptom of the Coronavirus. It helps to detect people with a potential fever and may contain or limit the spread of the Coronavirus through identification of infected individuals showing fever symptoms. The proposed system and method has been effective in using the combination of Human Tracking using the track angle, distance, speed, and direction of movement and Detecting Body Temperature (Heat) of the Target's body heat for fever detection.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020
(21) Application No.202041015747 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A TOUCH ACTIVATED DISPLAY SYSTEM FOR A VEHICLE

(51) International classification	:B32B0017100000, B60K0035000000, B60J0003040000, C03B0017020000, G06F0003042000
(31) Priority Document No	:NA
(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

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2)Arunvel Thangamani

(57) Abstract :
A laminated glass structure for display within a vehicle is disclosed. The laminated glass structure comprises a first pane (102a) and a second pane (102b) laminated together by at least one interlayer (102c) there between. The laminated glass structure (102) comprises an interactive unit (128) embedded between the first pane and the second pane and operable by a user's hand. The laminated glass structure further comprises a display unit (202) positioned adjacent to the interactive unit and communicable coupled to the interactive unit and the finger print detector. The display unit (202) comprises one or more illumination device which are activated in response to the actions performed on the interactive unit. The control unit selectively actuates one of illuminations device in the display unit through a command signal, and wherein the smart controller controls a voltage supplied to the display unit. Figure 2

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2020

(21) Application No.202041015749 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A DENTAL HERBAL COMPOSITION FOR CLEANING TOOTH AND ORAL CAVITY

(51) International classification	:A61Q0011000000, A61K0008730000, A61K0008020000, A61K0008340000, A61K0008970000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)TEJASSWINI RAMANI

(57) Abstract :
A dental herbal composition for cleaning tooth and oral cavity relates to formulation of a tooth cleansing tablet, which cleanses the teeth just as a toothpaste does in such a way that when it is chewed in a person's mouth it forms a pasty material so as to enables the person to effect a tooth cleaning operation using tooth brush or any means to clean the teeth which is effective against oral microbiota. In addition, the ingredients used in the present invention provide significantly higher unexpected results than the other existing products. The present invention obviate and reduce the use of plastic tube for packaging the toothpaste, limiting chemicals used in formulation and water wastage in manufacturing of toothpaste.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015752 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A CONNECTOR UNIT FOR A CONTROL DEVICE

(51) International classification	:H01L0027105000, G11C0007060000, H02K0005220000, H01R0013240000, H04Q0011040000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)AMAR DEEP KUMAR
2)DIPANJAN MAZUMDAR
3)RAMYA GANESAN
4)SARAVANAN GANGALAKSHMI

(57) Abstract :
The present subject matter generally relates to a connector unit (100) for a control device. The connector unit (100) is configured to house a plurality of power lines (201) to be connected with a corresponding control device for establishing electrical connection of the control device with its corresponding circuit components. The connector unit (100) comprises a connector base (101) for holding the two or more power lines (201), and two or more corresponding terminal slots (102) for receiving corresponding terminal members (202) of said two or more power lines (201), wherein each corresponding terminal slot receives a corresponding terminal member of each power line. As per an embodiment, the connector base (101) is integrally extended to form the corresponding terminal slots (102). The connector unit (100) housing the two or more power lines (201) can be directly used to establish electrical connection with any control device without the need for making individual connections.

No. of Pages : 22 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015753 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SMART HEAD PROTECTION GEAR

(51) International classification	:B60C0023040000, A61N0001378000, A61N0001372000, B62J0027000000, B41J0002165000
(31) Priority Document No	:NA
(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

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1)KANIKA CHOUDHARY
2)VELAGAPUDI SAI PRAVEEN
3)KARNAM VENKATA MANGA RAJU

(57) Abstract :
The present subject matter relates to a safety protective gear for a vehicle. More particularly to a smart head protection gear to ensure safety of the rider on the road. A fool-proof smart head protection gear safety system (100) for a head protection gear (200) of a rider of a vehicle. The system (100) comprising a microcontroller module (104), a transmitter module (101) is configured to transmit one or more parameters outputted from sensor module (103) to said microcontroller module (104), a receiver module (102) installed on said vehicle configured to receive said one or more parameters from said microcontroller module (104), a head protection gear buckling reminder module (105) mounted on said head protection gear (200), said head protection gear buckling reminder module (105) is configured to interact with said microcontroller module (104), and a battery module (202) to provide power to said system (100).

No. of Pages : 32 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015769 A
(43) Publication Date : 15/10/2021

(54) Title of the invention :NUTRIENT COMPOSITION FOR OPTIMIZATION OF IMMUNITY, GROWTH, DEVELOPMENT AND REPAIR OF CELLS"

(51) International classification	:A23L0033210000, A61K0031202000, A23L0033150000, A23L0033000000, A23L0033175000
(31) Priority Document No	:NA
(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

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2)Kocherry Paul Thomson
(72)**Name of Inventor :**
1)Kocherry Paul Thomson
2)Kocherry Paulose Thomson Jolly

(57) Abstract :
A nutrient composition for optimizing immunity, growth, development and repair of cells for human and animal use. Weight of one unit ranges from 100gm to 200gm and energy content of one unit ranges from 300 to 800 calories. The composition contains minimum 40gm protein and the essential amino acids content in the composition reach minimum one RDA for an adult weighing 50kg in one unit. Dietary fibre content in one unit ranges from 10gm to 40gm. Omega 3, 6 and 9 fatty acid content in one unit each ranges from 5gm to 17gm while maintaining a ratio of omega 3 to 6 fatty acids 0.75:1.25 to 1.25:0.75. Each essential vitamins and minerals except sodium a minimum of one RDA and a minimum of 500mg sodium and the ratio of sodium to potassium 1:2 to 1: 5 in one unit.

No. of Pages : 41 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015775 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AUTOTUNING A VIRTUAL FIREWALL

(51) International classification	:H04L0029060000, G06F0009455000, H02J0050800000, C08K0003360000, G06F0021530000
(31) Priority Document No	:NA
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Antony Ruban, ALEXIS
2)RAMANATHAN, Sai Prashanth
3)GANESAN, Ramasubramaniam

(57) Abstract :
A device may receive an input associated with deploying a virtual firewall on a computing device. The device may determine a first set of characteristics associated with the virtual firewall and a second set of characteristics associated with a hypervisor associated with the computing device. The device may automatically tune the virtual firewall based on the first set of characteristics and the second set of characteristics. The device may deploy the virtual firewall after tuning the virtual firewall.

No. of Pages : 60 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015783 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : OROPHARYNGEAL SWAB

(51) International classification	:A61M0016040000, A61B0010000000, C07K0016300000, G01N0001020000, A61K0047680000
(31) Priority Document No	:NA
(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

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2)Maya Nandkumar
3)AnilKumar Pallickaveedu Rajan Asari
4)Manoj Komath

(57) Abstract :
The present invention discloses a swab for aiding in release of collected oral tissue for histological and analytical purpose, said swab comprising a handle defining a longitudinal axis in part A, and a porous foam in part B, secured on part A with a non-cytotoxic adhesive, characterized in that, said part A consisting of a break point designated as part C, wherein the part A is essentially a cylindrical polypropylene stick. The handle being elongated and having a swabbing head end and a grasping end; and a wrapped foam at swabbing end, formed from an elongated Strip of foam, with a cylindrically rounded end, comprising of a relatively rigid material and the swabbing end portion comprises a relatively softer material. The part B is cylindrical in shape and is formed from microporous polyurethane foam, wherein the foam is porous and hydrophobic with a definite porosity.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015805 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CORONA VIRUS MEDICATION KIT AND A METHOD FOR TREATMENT OF CORONA VIRUS

(51) International classification	:A61J0001030000, A61K0039000000, A61F0017000000, G07F0017000000, A61M0005190000
(31) Priority Document No	:NA
(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

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2)PRATAP, Anand
3)PRASAD, Suvind
4)KUMAR, Jasvant
5)KUMAR, Ajit
6)PRASAD, Rajendra

(57) Abstract :
The present disclosure relates to a medication kit with testing, medication and relief supplies to kill, clean, and disinfect Novel Corona virus COVID-19 from inside and outside of body. The medication kit includesCOVID-19 Testing kit, COVID-19 ayurvedic medicines, COVID-19 homeopathic medicines, COVID-19 allopathic medicines, a hot water pack 110, a candle kit, and additional supplements. The COVID-19 ayurvedic medicine can include a composition of ayurvedic materials that facilitates killing of the COVID-19 when taken alone or in combination of the COVID-19 homeopathic medicines, COVID-19 allopathic medicines. The hot water pack is applied at throat and stomach of user. The candle is made of the same ayurvedic materials as that of the COVD-19 Ay medicine and burning of the candle purifies air, and kills the COVID-19 virus present inside and outside the body. The medication kit includes vaccines, and kits having medicines for oxygen ventilator therapy, saline therapy, and blood therapy.

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015817 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : CANISTER MOUNTING

(51) International classification	:F02M0037000000, B62J0035000000, B60K0015030000, B60K0015035000, B60K0015063000
(31) Priority Document No	:NA
(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

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2)VAIDHEESWARAN RAMESH
3)KARNAM VENKATA MANGA RAJU

(57) Abstract :
The present invention relates to a saddle type vehicle (100), where said vehicle (100) comprises of a frame (101), fuel tank module (103), and canister assembly (309). The canister assembly (309) is mounted on the outer portion (203) of the fuel tank assembly (103) thereby, ensures the ease of accessibility and serviceability of the canister assembly (309).

No. of Pages : 30 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/04/2020

(21) Application No.202041015818 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : A SADDLE RIDE TYPE VEHICLE SENSOR MOUNTING STRUCTURE

(51) International classification	:B62K0025080000, F16C0041000000, G01P0003440000, B60T0008170000, B62J0099000000
(31) Priority Document No	:NA
(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

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2)PALANISAMY NANDAKUMAR
3)WINNEY KAKKANATTU MATHEWS
4)PRAVEEN KUMAR SHARMA

(57) Abstract :
A SADDLE RIDE TYPE VEHICLE SENSOR MOUNTING STRUCTURE The present subject matter relates to a sensor unit mounting structure on an outer tube of a front fork assembly of the saddle-ride type vehicle. A pair of front fork (108) is configured to pivotally support a front wheel (1051) of the vehicle. The pair of front fork (108) includes an inner tube (108b) slidably connected to an outer tube (108a). A sensor unit (305) is configured to detect speed of the front wheel (105) by detecting rotation of the pulsar plate (401). The sensor unit (305) is mounted to the outer tube (108a). The sensor unit (305) is mounted on the sensor mounting structure (303). The servicing of the senor unit (305) is easier and the sensor unit (305) remains in the assembled condition, at a close proximity to the pulsar plate (401) according to the present invention

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

(21) Application No.202041015833 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MAKING AN ADVERTISEMENT AVAILABLE TO A USER

(51) International classification	:G06Q0030020000, H04L0029120000, H04N0021840000, H04N0021810000, H04H0060630000
(31) Priority Document No	:NA
(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

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(57) Abstract :
A system (100) and method for making an advertisement available to a user or client is disclosed. All vendors registers in the system (100) and upload their advertisements or deals on time to time bases. All the advertisements or deals of a vendor are reviewed by admin before saving in a server (108). The server (108) has all the user and vendor details. Each vendor detail comprises the brand name, services, deals and advertisements provided by the vendor. The user can login into the system (100) and selects a category or service from a list of main categories and services. Based selected categories, a list of sub categories are shown to the user. The user can select a particular brand name or service and view a list of all deals, advertisements, offers, discounts and messages for the selected brand name or service. This allows user to check all details of the brand deals, whenever required.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

(21) Application No.202041015835 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : RESTROOM VENTILATION SYSTEM

(51) International classification	:E03D0009052000, F04D0029280000, E03D0009050000, G06F0001200000, F24F0007060000
(31) Priority Document No	:NA
(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

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(72)**Name of Inventor :**
1)MORRISRAJA PERIASAMY

(57) Abstract :
ABSTRACT RESTROOM VENTILATION SYSTEM The present disclosure is directed to an easily configurable, cost effective restroom ventilation system comprising of an axial fan (10) and a centrifugal fan (20) aligned in a same axis facing opposite each other to remove air from the inside and supplying air to the inside of the restroom, respectively. The turbulence created by flow of air from the centrifugal fan (20) facilitates in eliminating settled foul air at the bottom and replacing it with a fresh one.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

(21) Application No.202041015838 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : HEADLAMP ASSEMBLY

(51) International classification	:B60Q0001040000, F21S0041255000, B60Q0001000000, F21S0041290000, F21S0041147000
(31) Priority Document No	:NA
(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

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5)KURMAM SHANMUKHA PRADEEP
6)GANESAN P
7)HEGGADAHALLY MANJUNATHA SAHANASHREE
8)GOKA RAVI KUMAR BALU
9)RAJAMANI RAVISANKAR

(57) Abstract :
The present invention discloses about a headlamp assembly (105, 200) of a vehicle (100) comprising a front cowl unit (507), a rear cowl unit (509), and a reflector unit (508). The reflector unit (508) has a posterior end and a front end, wherein, the posterior end of the reflector unit (508) has a low beam light source (401) and a high beam light source (404),positioned parallel to each other on an axis (Z-Z), in a vertical direction of the headlamp assembly (105, 200). The front end of the reflector unit (508) has a plurality of projected portions (303a, 303b, 303c) that adjoins with a plurality of defined regions (201a, 201b, 201c) of the headlamp lens (201) at a plurality of pre defined zones (a, b, c).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2020

(21) Application No.202041015846 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : TITLE: METHODS OF MAKING MULTIFUNCTIONAL ELECTRIC MODULATION SYSTEM AND METHOD OF USING IT.

(51) International classification	:A61N0001360000, A61B0008080000, A61N0001400000, A61N0002020000, A61B0008000000
(31) Priority Document No	:NA
(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

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(57) Abstract :
ABSTRACT: System and method of electric stimulation at the target of biological sample such as brain is presented. System may comprises of at least a single electric field producing pixel arrays or hybrid electric field and ultrasound producing pixels arrays, for creating an electric field pattern such as at least temporal or spatial or spatiotemporal pattern using parameters such as amplitude, phase and frequency for creating a electric field at the at least single desired target areas in the brain with high spatial resolution. Electric field pattern of at least two frequencies are created at least at a single target area in the brain such that the temporal interference of at least two electric field of at least two different frequencies at least at a single target area create a resulting wave of electric field frequency within the band pass frequency of neuron with other desired parameters such as phase and amplitude. Additionally ultrasound pixel array or hybrid electric field and ultrasound producing pixel array may be used to focus at places, where the at least two electric field frequency interferes to increase the spatial resolution of electric field stimulation. Ultrasound induced altering of at least a single electromagnetic property of the target area such as, but not limited to permittivity and conductivity at the target area, creates an desired electric field parameter especially at least amplitude, frequency and phase at the target area such as but not limited to, displacement current, altering of ohmic current in the presence of electric field due to illuminated interfering electric field. Further the system may work in multifunctional modes.

No. of Pages : 31 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/10/2020

(21) Application No.202047045895 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : INVENTORY MANAGEMENT SYSTEM AND INVENTORY MANAGEMENT METHOD

(51) International classification	:G06Q0010080000, G06K0007100000, G06Q0030060000, G06Q0050280000, G06K0017000000
(31) Priority Document No	:2019-077962
(32) Priority Date	:16/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/016179 :10/04/2020
(87) International Publication No	:WO 2020/213538
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)IMANAGA Yasutaka

(57) Abstract :
The present invention makes it possible to manage accurate product stock quantity in real time. An inventory management system (100) comprises a server (10) that manages product stock quantities by way of counting wireless communication tags, and is characterized in that when a discrepancy occurs between the actual stock quantity of a product in a shop and the wireless communication tag count, the server (10) manages product stock quantities on the basis of the count of wireless communication tags after the count of the wireless communication tags is increased or decreased depending on the situation in which the discrepancy occurred.

No. of Pages : 36 No. of Claims : 9

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(21) Application No.202144015548 A
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(54) Title of the invention : BOBBIN DETECTION MECHANISM AND BOBBIN HANGER IN BOBBIN TRANSPORT DEVICE FOR ROVING FRAME

(51) International classification	:D01H0009180000, B65H0067048000, D03D0051340000, G03G0021120000, F21V0021080000
(31) Priority Document No	:2020-070274
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(57) Abstract :
A bobbin detection mechanism (36) in a bobbin transport device (20) for a roving frame (10) includes a plurality of full bobbin hangers (21F, 61F, 80F), a plurality of empty bobbin hangers (21E, 61E), and a full bobbin hanger photoelectric sensor (37) configured to emit a sensor light (L, L1). Each of the full bobbin hangers (21F, 61F, 80F) includes a full bobbin shaft portion, and a full bobbin vertically movable member (49, 69, 81) movable up and down relative to the full bobbin shaft portion (45). The bobbin detection mechanism (36) includes a full bobbin hanger sensor light shield (51, 71, 83) formed in the full bobbin hanger vertical movable member (49, 69, 81), and configured to block the sensor light (L, L1) from the full bobbin hanger sensor light emitter (38) when the full bobbin vertically movable member (49, 69, 81) is positioned at the holding position. [FIGURE 6]

No. of Pages : 36 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/07/2021

(21) Application No.202147031442 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : VIDEO DATA PROCESSING METHOD AND RELATED DEVICE

(51) International classification	:H04N0021440000, H04N0021431000, H04N0021234000, H04N0021231000, G06K0009000000
(31) Priority Document No	:201910358569.8
(32) Priority Date	:30/04/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/084112 :10/04/2020
(87) International Publication No	:WO 2020/220968
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(57) Abstract :
Disclosed in the embodiments of the present application are a video data processing method and device, and a storage medium. The method comprises: in response to a trigger operation for a target video, determining a target object from a key video frame of the target video, and acquiring multimedia information associated with the target object; determining, on the basis of the position information of a target pixel point of the target object in the key video frame, a trajectory acquisition request corresponding to the target pixel point; acquiring target trajectory information associated with the position information of the target pixel point in the key video frame on the basis of the trajectory acquisition request; and when the next video frame of the key video frame is played, displaying the multimedia information on the basis of the position information of the target pixel point in the next video frame of the key video frame in the target trajectory information.

No. of Pages : 52 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202147042981 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : SYSTEM AND METHOD FOR CONSTRUCTION OF A PROTOCOL DATA UNIT USING SELECTIVE RELAY

(51) International classification :H04L5/00,H04L1/00,H04W56/00
(31) Priority Document No :201941014808
(32) Priority Date :12/04/2019
(33) Name of priority country :India
(86) International Application No :PCT/US2020/027483
Filing Date :09/04/2020
(87) International Publication No :WO 2020/210503
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
An apparatus may receive, from a second device over a first communications link, a first bitmap indicating a first set of packets received by the second device from a third device; determine a second bitmap indicating a second set of packets received by the first device from the third device, each of the first set of packets and the second set of packets comprising at least a fragment of a PDU; transmit, to the second device, information indicating a third set of packets based on the first bitmap and based on the second bitmap, the third set of packets being unsuccessfully received by the first device from the third device; and receive a fourth set of packets from the second device based on transmission of the information indicating the third set of packets, the fourth set of packets including information from the third set of packets.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/04/2021

(21) Application No.202134015678 A
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(54) Title of the invention : TRAMP METAL SEPARATION ASSEMBLY

(51) International classification	:B02C0002040000, B01D0063080000, C22C0038380000, B01D0017020000, H01M0008040140
(31) Priority Document No	:109111850
(32) Priority Date	:08/04/2020
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(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

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4)LI, Bao-Ding

(57) Abstract :
A tramp metal separation assembly comprises a housing, a core rod and a sleeve tube. The housing includes a first and second discharging areas and a feeding area. The core rod includes a first and second non-magnetic sections and a magnetic section. The core rod is mounted on the housing in a way that the first and second non- magnetic sections correspond respectively to the first and second discharging areas and the magnetic section corresponds to the feeding area. The sleeve tube includes a first and second portions. The sleeve tube is sleeved outside the core rod in a way that it is moveable between a first position, wherein the first portion corresponds to the magnetic section and the second portion corresponds to the second non-magnetic section, and a second position, wherein the first portion corresponds to the first non-magnetic section and the second portion corresponds to the magnetic section.

No. of Pages : 19 No. of Claims : 12

CONTINUED TO PART- 2