### PATENT JOURNAL

### INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

**SEPTEMBER 2024** 

VOL 57 • No. 09



Companies and Intellectual Property Commission

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## Part II of II

**ISSUED MONTHLY** 

DATE OF ISSUE: 25 SEPTEMBER 2024

ISSN 2223-4837

# PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

VOL. 57 No. 09

Date of Issue: 25 SEPTEMBER 2024

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# **2. PATENTS**

#### PATENTS

#### APPLICATIONS FOR PATENTS

Copies of these specifications cannot be supplied until the applications have been accepted and advertised, or in the case of convention applications, until 18 months from the date of the application in the convention

#### THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:

The numerical references denote the following: (21) Number of application. (22) Date of application. (43) Date of acceptance. (51) Class. (71) Name of applicant(s). (72) Name of all inventors. (33) Country. (31) Number and (32) Date of convention application. (54) Title of invention. (00) Number of sheets.

- APPLIED ON 2024/08/26 -

2024/06540 ~ Complete ~54:GRAPHICAL USER INTERFACE, METHOD, PROGRAM, AND APPARATUS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CONGSON, Frank;MCGAHAN, David;WALTERS, George~ 33:AU ~31:2022900432 ~32:24/02/2022

2024/06525 ~ Complete ~54:AN AUTOMATIC PET FEEDER ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: MOHAMED RAIHAN ABDUL MALIK;PRIYADHARSAN RENGANATHAN;RAJASEKARAN KARUPPAIAH;SANKARA SUBRAMANIAN AYYAPPAN THANGAM;SHYAM ABDUL AJEES~

2024/06528 ~ Complete ~54:AUTONOMOUS STREET LIGHT FAULT DETECTION SYSTEM ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: Arunkumar Ganapathy;Hema Ramachandran;Prem Nivash Muthukumar;Sri Sharabesh Natarajan Thamarai Selvan;Tharunkumar Kumaravel krishnamoorthy~

2024/06548 ~ Complete ~54:COMPOUNDS FOR COATING OF NANOSTRUCTURES ~71:SPAGO NANOMEDICAL AB, Scheelevägen 22, 223 63, Lund, Sweden ~72: ERIK EKENGARD;JURAJ PARIS;OSKAR AXELSSON;RIKARD LARSSON;YI-CHI LIU~ 33:EP ~31:22160866.4 ~32:08/03/2022

2024/06521 ~ Complete ~54:SLIDING BAND MULTI-ELEVATOR FILING SYSTEM NOT REQUIRING ELEVATOR PIT ~71:ALTUNTAS HAVALANDIRMA TURIZM SANAYI TICARET ANONIM SIRKETI, ERENLER OSB MAH. MEHMET ALTINSOY BLV. NO: 27, Merkez/Aksaray, 68220, Turkey ~72: OSMAN ALTUNTAS~

2024/06524 ~ Complete ~54:A METHOD FOR MANUFACTURING STUCCO BRICKS ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: JOSHWA JOSEPHRAJA;NARAEN TAMILSELVAN AYYA DURAI;OORKALAN AYYANAR;TAMILSELVAN VIJAYARETHINAM;THIRUPAKARAN SARAVANAN KALPANA~

2024/06537 ~ Complete ~54:SEAL ARRANGEMENT OF A ROTARY KILN ~71:EAGLEBURGMANN GERMANY GMBH & CO. KG, Äussere Sauerlacher Str. 6-10, Germany ~72: Alfred MATUSCHEK;Markus ITTNER;Stefan DANNER~ 33:DE ~31:10 2022 109 305.0 ~32:14/04/2022

2024/06516 ~ Provisional ~54:WIRELESS DETONATOR ASSEMBLY ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: TBA~

2024/06522 ~ Complete ~54:A METHOD FOR AIR PURE ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: ARUL SIDHARTH TAMILARASAN;DHINESH RAJA PAULRAJ;HEMAVATHI SUNDARAM;SANJITH PRANAV RAJENDRAN;SUDHARSHAN VENKADESKUMAR~ 2024/06531 ~ Complete ~54:A LUGGAGE CARRIER FOR TWO WHEELERS ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: Dinesh Kumar Suyambudurai;Logeshwaran Palanisamy;Muruganantham Palanivel;Narmadha Natrajan;Rahmath Nisha Shamsudeen~

2024/06533 ~ Complete ~54:SOLAR CELL POWERED THERMOELECTRIC REFRIGERATION TECHNOLOGY FOR FRUITS AND VEGETABLES TRANSPORTING VEHICLES ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: AAKASH SENTHILKUMAR;JAI GANESH RAJENDRAN;POOJA MURUGABOOPATHY;SANGLEESHWARI VELLAISAMY;VISHNU PARAMANANTHAN~

2024/06535 ~ Complete ~54:AUTOMATIC CROP PROTECTION USING ALARM SYSTEM ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: DEEPAK SAMIDURAI;JAI GANESH RAJENDRAN;SOWMIYA SEKAR;SRREE MAALAVIKA PREMKUMAR;VIDYA SAKTHIVEL~

2024/06517 ~ Provisional ~54:A TRAVEL CASE FOR TRANSPORTING A GOLF BAG ~71:WERNER BADENHORST, 10 BERT CLOSE HELDERKRUIN, South Africa ~72: WERNER BADENHORST~

2024/06523 ~ Complete ~54:COIR PITH CONCRETE PANEL ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: ABU BAKKAR SIDDIQUE RAHUMAN KHAN;ARUN SUNDARAM;CHITHRA SARANGAPANI;JAYAKARNAN RAVICHANDRAN;KIRUBANITHI PALRAJ;OORKALAN AYYANAR~

2024/06527 ~ Complete ~54:TEMPERATURE ADJUSTABLE BULLET PROOF JACKET ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: ABISHEKA PRIYAN THIRUVENGADAM RAJAN;ADHAVAN RAJASEKARAN;DHARAN SUNDARAPANDIYAN;DHARSHNI NALLASAMY;SYEDAKBAR SYED YUSUFF~

2024/06534 ~ Complete ~54:NO WET HEAT AND MOISTURE ALERT MOBILE CASE ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: RAJKUMAR ARUMAIRAJ;SRIRAM RAJAGOPAL;VIKASH GANDHI;VISVAS SURESH KUMAR;YOGESH PERUMAL~

2024/06539 ~ Complete ~54:SYSTEMS AND METHODS FOR MANAGING ASSIGNMENTS OF TASKS FOR MINING EQUIPMENT USING MACHINE LEARNING ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: COLLINS, Darryl;DAVIS, Greg;DOHERTY, Thomas Frank;LANE, Cameron T;WULF, Stefan Jacob;YUN, Andrew Seungyul~ 33:US ~31:17/652,926 ~32:28/02/2022

2024/06542 ~ Complete ~54:CODING AND DECODING OF SPHERICAL COORDINATES USING AN OPTIMIZED SPHERICAL QUANTIZATION DICTIONARY ~71:Orange, 111, quai du Président Roosevelt, ISSY-LES-MOULINEAUX 92130, FRANCE, France ~72: RAGOT, Stéphane;YAOUMI, Mohamed~ 33:FR ~31:2201286 ~32:14/02/2022

2024/06526 ~ Complete ~54:POWER SOURCE GENERATION SYSTEM VIA WIND ENERGY ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: ABDUL RAWOOF SYED MUSTAFA;DHARUN KUMAR SEKAR;KARTHIKEYAN BALUSAMY;SATHISHKUMAR SIVASUBRAMANIAN;SENTHILKUMAR THANGARAJAN SIVASANKARAN~ 2024/06532 ~ Complete ~54:A SPRINKLER IRRIGATION SYSTEM ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: ABDUL RAWOOF SYED MUSTAFA;KAMALI BALACHANDAR;MANOJKUMAR SURIYAKUMAR;SARANYA KARUNANITHI;YOKESWARAN RAMADOSS~

2024/06544 ~ Complete ~54:EXTERNAL FIXATION SYSTEMS AND METHODS OF USE ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: CAPELIN, Daniel;LIPKER, Garrett Jeffrey;PROTOPSALTIS, Dimitri;ROGGOW, Kenneth Allan~ 33:US ~31:63/304,236 ~32:28/01/2022

2024/06547 ~ Complete ~54:A METHOD OF DETECTION OF A LANDMARK IN A VOLUME OF MEDICAL IMAGES ~71:HEMOLENS DIAGNOSTICS SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, UI. Legnicka, nr 48G 54-202 Wroclaw, Poland ~72: BARTLOMIEJ CUPIAL;LUKASZ MOROZ;MILOSZ GAJOWCZYK;PATRYK RYGIEL;PIOTR GRÓDEK;TOMASZ KONOPCZYNSKI~

2024/06553 ~ Complete ~54:AN INDICATOR, AND ASSOCIATED MANAGEMENT SYSTEMS AND METHODS USING THE SAME ~71:FENSHAM, Noel Cedric, 7 Chagupe Place, Shaka's Rock, Durban, SOUTH AFRICA, South Africa ~72: DUNT, Ian Howard;FENSHAM, Noel Cedric~ 33:ZA ~31:2022/01179 ~32:26/01/2022

2024/06541 ~ Complete ~54:N-TERMINUS ENGINEERING OF INTRACELLULAR POLYPEPTIDES EXPRESSED IN RECOMBINANT EUKARYOTIC HOST CELLS ~71:Danstar Ferment AG, Poststrasse 30, ZUG CH-6300, SWITZERLAND, Switzerland ~72: ARGYROS, Aaron;OESER, Michelle;PANAITIU, Alexandra-Elena;PATTATHIL, Sivakumar;VAN EIJK, Jan;WANG, Zhiqing~ 33:US ~31:63/326,564 ~32:01/04/2022;33:US ~31:63/386,394 ~32:07/12/2022

2024/06543 ~ Complete ~54:FLEXIBLE CABLE WITH INCREASED LIFE SPAN, AND A METHOD FOR PRODUCING A FLEXIBLE CABLE ~71:Cabin Air Group B.V., Bokkewiel 6, JOURE 8502 TX, THE NETHERLANDS, Netherlands ~72: VAN DER SCHUIT, Rinze Jan~ 33:NL ~31:2031274 ~32:14/03/2022;33:NL ~31:2033210 ~32:03/10/2022;33:NL ~31:2033909 ~32:04/01/2023

2024/06545 ~ Complete ~54:A METHOD FOR MANUFACTURING PHARMACEUTICAL GRADE HYPOCHLOROUS ACID ~71:THOCLOR LABS (PTY) LTD., Unit 1E Stellenbosch Agri-Park, Baden Powell Drive, Lynedoch, Stellenbosch, 7603, South Africa ~72: HENDRIK CHRISTOFFEL ROOS~ 33:GB ~31:2201705.7 ~32:10/02/2022

2024/06549 ~ Complete ~54:NANOSTRUCTURES AND APPLICATIONS THEREOF ~71:SPAGO NANOMEDICAL AB, Scheelevägen 22, 223 63, Lund, Sweden ~72: ERIK EKENGARD;JURAJ PARIS;OSKAR AXELSSON;YI-CHI LIU~ 33:EP ~31:22160879.7 ~32:08/03/2022

2024/06520 ~ Complete ~54:A BARRIER ARRANGEMENT ~71:M-TEK CONSTRUCTION PRODUCTS (PTY) LTD., Ground Floor, My Space Building, Corner Bird & Alexander Streets, Stellenbosch, 7600, South Africa ~72: MARTIN GREGORY LANGE~

2024/06529 ~ Complete ~54:PROXIMITY LOCK SYSTEM ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: HARIHARAN ELANGESHWARAN;JOHN PAUL JOSEPH;MELVIN GEORGE KENNEDY;MUKESH BALAJI PONMARIAPPAN;VIJAYALAKSHMI SUNDARESAN~

2024/06536 ~ Complete ~54:AUTOMATED WILDLIFE BOUNDARY KEEPER ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112,

India ~72: ABITHA MARY SOOSAI RAJ;JASMINE ISWARYA SEMEYON RAJ;MARCUS SAVIO RAVY;RAMKUMAR THANGARAJ;VASANTH ARUL KUMAR~

2024/06546 ~ Complete ~54:MEDICAL DEVICE PACKAGING AND RELATED METHODS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ANDREW COOK;JASON SMITH;SIBGAT ULLA;VICTOR BRADFORD~ 33:US ~31:63/306,925 ~32:04/02/2022;33:US ~31:63/401,549 ~32:26/08/2022

2024/06550 ~ Complete ~54:ASSESSMENT OF MYOCARDIAL PERFUSION USING NON-INVASIVE MEASUREMENTS AND POROMECHANICS ~71:HEMOLENS DIAGNOSTICS SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, UI. Legnicka, nr 48G 54-202 Wroclaw, Poland ~72: KRYSPIN MIROTA~

2024/06552 ~ Complete ~54:GLOBULAR NANOSTRUCTURES ~71:SPAGO NANOMEDICAL AB, Scheelevägen 22, 223 63, Lund, Sweden ~72: ERIK EKENGARD;OSKAR AXELSSON;RIKARD LARSSON;SANIA BÄCKSTRÖM;YI-CHI LIU~ 33:EP ~31:22160908.4 ~32:08/03/2022

2024/06554 ~ Provisional ~54:CAPSULAR DELIVERY SYSTEM FOR OLIVE OIL EXTRACTS ~71:Celeste Barkhuizen, 4 Jackalberry street, South Africa ~72: Celeste Barkhuizen~

2024/06515 ~ Provisional ~54:ANCHOR AND STRAP ~71:DUNCAN, Malcolm Douglas, 901 Cloud Cover Lane, Leander, United States of America ~72: DUNCAN, Malcolm Douglas~

2024/06518 ~ Provisional ~54:SYSTEM FOR ENERGY STORAGE ~71:LEE WAVERLEY JOHN, 20 YELLOW WOOD LANE, Zimbabwe ~72: LEE WAVERLEY JOHN~

2024/06519 ~ Complete ~54:ALL-SOLID WASTE-BASED CEMENTITIOUS MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF ~71:Solid Waste and Chemicals Management Center of the Ministry of Ecology and Environment of China, No.1 Yuhui South Road, Chaoyang District, Beijing, 100029, People's Republic of China;University of Science and Technology Beijing, No.30 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: CHEN Xinying;DU Huihui;GU Mingyuan;HUO Huimin;LI Ning;LI Yunyun;MU Xinli;NI Wen;QI Zihan~

2024/06530 ~ Complete ~54:STAPLER CUM PUNCH MACHINE ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: ANITHA SUDHAKAR;BHAVANI RAJAGOPAL;GAYATHRI CHOKKALINGAM;HARINI DHANASEKARAN;LAKSHIYAA PREMNATH~

2024/06538 ~ Complete ~54:APTAMER FOR SPECIFICALLY RECOGNIZING SOLUBLE ST2 AND USE THEREOF ~71:BEIJING INSTITUTE OF HEART, LUNG AND BLOOD VESSEL DISEASES, No.2 Anzhen Road, Chaoyang District, People's Republic of China ~72: DU Jie;LI Fengjuan;TAN Xin;WANG Xue;WANG Yuan~ 33:CN ~31:202210267054.9 ~32:18/03/2022;33:WO ~31:PCT/CN2022/119001 ~32:18/09/2022

2024/06551 ~ Complete ~54:GLOBULAR NANOSTRUCTURES HAVING AN ANCHORING LAYER ~71:SPAGO NANOMEDICAL AB, Scheelevägen 22, 223 63, Lund, Sweden ~72: ERIK EKENGARD;OSKAR AXELSSON;YI-CHI LIU~ 33:EP ~31:22160889.6 ~32:08/03/2022

- APPLIED ON 2024/08/27 -

2024/06570 ~ Complete ~54:A FLAWLESS FLASKET ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: DHAARANI SREE RAVICHANDRAN;KANITHRA SUNDARARAJAN;KARTHIKEYAN BALASUBRAMANI;MADAVAN RENGARAJ;SRREE MAALAVIKAA PREMKUMAR~ 2024/06590 ~ Complete ~54:METHODS OF EMBRYO MULTIPLICATION ~71:NBRYO PTY LTD, Freeway Office Park, Building 1, Ground floor, Australia ~72: AZOULAY, Danielle;CAMERON, Nicholas;DAY, Margot;MORRIS, Michael;TE BRAKE, Wilhelmus~ 33:AU ~31:2022900164 ~32:31/01/2022

2024/06595 ~ Complete ~54:SMOKING PRODUCT AND METHODS OF MANUFACTURE ~71:ADMISH, INC., 3666 N. Braewood Avenue, United States of America ~72: BRUNSON, Michael A.~

2024/06575 ~ Complete ~54:AN APPARATUS FOR DUMBBELL STORAGE ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: ABISHIK NISHANTH DURAI;GOKUL NATH KALIYA MOORTHI;GUNA VISHAL GRUNTHIYA;GURU DEV SARAVANAN;SATHISH KUMAR GURUSAMY~

2024/06580 ~ Complete ~54:MANUFACTURING PROCESS FOR HIGH TITER ANTIBODY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BAK, Hanne;CALLINAN, Laura;CASEY, Meghan;CHIBOROSKI, Mark;CONLON, Aishling;CORBETT, Daniel;CROWLEY, John;GOH, Hai-Yuan;HOURIHAN, John;JOHNSON, Amy, S.;LAFOND, Michelle;LAWRENCE, Shawn M.;MATTILA, John;MELLORS, Philip;NICHOLL, Liam;OSHODI, Shadia Abike;REILLY, James;STAIRS, Robert;STARLING, Alessandra;TANG, Xiaolin;TUSTIAN, Andrew;VARTAK, Ankit;WITMER, Ashley~ 33:US ~31:63/315,897 ~32:02/03/2022;33:US ~31:63/411,899 ~32:30/09/2022;33:US ~31:63/417,873 ~32:20/10/2022;33:US ~31:63/436,854 ~32:03/01/2023;33:US ~31:63/448,655 ~32:27/02/2023

2024/06582 ~ Complete ~54:MULTISPECIFIC ANTIBODIES AND USES THEREOF ~71:PFIZER INC., 66 Hudson Boulevard East, New York, United States of America ~72: AGOSTINELLI, Rita Diane;APGAR, James Reasoner;BARRON, Alexander Michael Shuford;BENNETT, Eric Matthew;BLOOM, Laird;CHEN, Ting;DE, Arnab;D'ANTONA, Aaron Michael;GIESECK III, Richard Lee;JIN, Fang;KASAIAN, Marion Teresa;LAMBERT, Matthew Allister;MARQUETTE, Kimberly Ann;MCMANUS, Virginie;MIN DEBARTOLO, Jessica Haewon;PICHE-NICHOLAS, Nicole Melissa;SHELDON, Richard Thomas;TCHISTIAKOVA, Lioudmila;ZHONG, Xiaotian~ 33:US ~31:63/268,817 ~32:03/03/2022;33:US ~31:63/483,162 ~32:03/02/2023

2024/06578 ~ Complete ~54:SMART SKATING BOARD ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, INDIA- 621112, India ~72: Avudaiappan Tharmiah;Murugavalli Sangilimuthu;Vinodha Ravi~

2024/06602 ~ Provisional ~54:BUSH EARS LISTENING DEVICE AND APP ~71:Rhys Dai Williams, 1613 Imbali Ridge, Seaward Estates, South Africa ~72: Rhys Dai Williams~

2024/06555 ~ Provisional ~54:ANIMAL FEED ~71:NUTRISEK GROUP (PTY) LTD., 1835 Capricorn Crescent, Capricorn Park, MUIZENBERG 7945, Western Cape, SOUTH AFRICA, South Africa ~72: KOTZE, Jacobus Adriaan~

2024/06556 ~ Provisional ~54:A LOAD-INDICATING DEVICE ~71:Dun-Cron Electrical CC, 26 Albatross Street, SECUNDA 2302, Mpumalanga Province, SOUTH AFRICA, South Africa ~72: CRONJE, Michael Duncan; CRONJE, Willem Hendrik~

2024/06557 ~ Provisional ~54:VEHICLE ANTI THEFT SYSTEM ~71:JANSE VAN VUUREN, Jaco, PMA House, Block B, Tijger Vallei Office Park, Silver Lakes Road, Silver Lakes, South Africa ~72: JANSE VAN VUUREN, Jaco~

2024/06586 ~ Complete ~54:CONJUGATES, COMPOSITIONS, AND METHODS FOR HYDROXYAPATITE-TARGETED IMAGING AND THERAPY ~71:PURDUE RESEARCH FOUNDATION, 101 Foundry Drive, Suite 2500 West Lafayette, Indiana 47906, United States of America ~72: JEFFERY NIELSEN;LOSHA DASOL JUNG;MADDURI SRINIVASARAO;PHILIP STEWART LOW;STEWART LOW~ 33:US ~31:63/313,395 ~32:24/02/2022

2024/06588 ~ Complete ~54:LANCES FOR INJECTING REACTANTS INTO GASIFIERS ~71:SIERRA ENERGY, 1222 Research Park, Dr. Davis, California, 95618, United States of America ~72: DANIEL DODD;PAUL VERGNANI~ 33:US ~31:63/314,148 ~32:25/02/2022

2024/06592 ~ Complete ~54:COMPOUNDS AND METHODS USEFUL FOR STABILIZING PHENYLALANINE HYDROXYLASE MUTATIONS ~71:Agios Pharmaceuticals, Inc., 88 Sidney Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: DE PASCALIS, Lucrezia;FINLAY, Heather Jane;KING, Sandra;KONTEATIS, Zenon D.;SHOOK, Brian C.~ 33:US ~31:63/314,580 ~32:28/02/2022

2024/06597 ~ Complete ~54:METHOD FOR GENERATING A RESOURCE-EFFICIENT TRACK FOR A VEHICLE IN OPERATION MOVING ALONG A HIGHWAY ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06558 ~ Provisional ~54:A SYSTEM, DEVICE AND METHOD FOR PROVIDING HEALTHCARE AND MEDICINAL ADVICE ~71:Faith Pamella Kakukandunda Kuzeeko, 21 Piazza, 5 London Avenue, Morningside, South Africa ~72: Faith Pamella Kakukandunda Kuzeeko~

2024/06563 ~ Complete ~54:NATIVE VALVE REPAIR DEVICES AND PROCEDURES ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric R.;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;TYLER II, Gregory Scott;WINSTON, Matthew T.~ 33:US ~31:62/615,213 ~32:09/01/2018

2024/06566 ~ Complete ~54:SIMPLIFIED COTTON CULTIVATION METHOD COMPLETELY RELYING ON SETTING BOLLS ON VEGETATIVE BRANCHES ~71:SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, No.202, Industrial North Road, Licheng District, Jinan, Shandong, 250100, People's Republic of China ~72: CUI, Zhengpeng;DAI, Jianlong;DONG, Hezhong;NIE, Junjun;ZHAN, Lijie;ZHANG, Dongmei;ZHANG, Yanjun~

2024/06571 ~ Complete ~54:WELD POWER GENERATOR ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: HARISH MADHAVAN DHAMODHARAN;KARUN PRABU RAMESH;MOHAMED SHARUK HUMAYUN BASHA;PRASANNA MUKESH RAJ BALAKRISHNAN;YOKESWARAN RAMADOSS~

2024/06576 ~ Complete ~54:A FORGE SMART SWITCH ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: Avudaiappan Tharmiah;Reetha Jeyarani Martin Amutha;Sriram Rajagopalan~

2024/06581 ~ Complete ~54:CELL CULTURE METHODS FOR ANTIBODY PRODUCTION ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BAK, Hanne;CALLINAN, Laura;CASEY, Meghan;CHIBOROSKI, Mark;CONLON, Aishling;CORBETT, Daniel;CROWLEY, John;GOH, Hai-Yuan;HOURIHAN, John;JOHNSON, Amy, S.;LAFOND, Michelle;LAWRENCE, Shawn M.;MATTILA, John;MELLORS, Philip;NICHOLL, Liam;OSHODI, Shadia Abike;REILLY, James;STAIRS, Robert;STARLING, Alessandra;TANG, Xiaolin;TUSTIAN, Andrew;VARTAK, Ankit;WITMER, Ashley~ 33:US ~31:63/315,897 ~32:02/03/2022;33:US ~31:63/411,899 ~32:30/09/2022;33:US ~31:63/417,873 ~32:20/10/2022;33:US ~31:63/436,854 ~32:03/01/2023;33:US ~31:63/448,655 ~32:27/02/2023 2024/06591 ~ Complete ~54:RECYCLED CONCRETE AGGREGATES CARBONATION TREATMENT ~71:Hawkins Construction Company, 2516 Deer Park Blvd., OMAHA 68105, NE, USA, United States of America;NUtech Ventures, 2021 Transformation Drive, Suite 2220, LINCOLN 68508, NE, USA, United States of America ~72: BALL, Jim;HARPER, Nate;HAWKINS, Chris;HU, Jiong;KIM, Seunghee;MAMIROV, Miras;ZADEH, Amin Hosseini~ 33:US ~31:63/304,184 ~32:28/01/2022

2024/06600 ~ Complete ~54:GENERATING A RESOURCE-EFFICIENT TRACK FOR A VEHICLE ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06559 ~ Complete ~54:A METHOD FOR PHOTOCATALYTIC DISSOLUTION OF PRECIOUS METALS ~71:Bengbu University, 1866 Caoshan Road, Bengbu City, Anhui Province, 233030, People's Republic of China ~72: Ding Bo;Gao Hongrui;Sun Bingfeng;Wang Ying;Xiong Mingwen;Zhang Bo;Zhang Yao~ 33:CN ~31:2024108932101 ~32:04/07/2024

2024/06568 ~ Complete ~54:REACTOR AND FUEL SOURCE ~71:EXPLORIUS 2022 (PTY) LTD, Gate 2, Unit 7 (B3/U1), New Germany Industrial Park, 9 Chelsea Avenue, South Africa ~72: DE JAGER, Lewyllen Gerbarndt~ 33:ZA ~31:2023/09938 ~32:25/10/2023

2024/06574 ~ Complete ~54:FREE FALL PROTECTION AIR BAG ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: AKASH SENTHILKUMAR;BHARATH SABARISH VILLAPAKKAM CHANDRA SEKARAN;NIDHISH RAGAV ATHMANATHAN;PARTHIBAN NADESAN;PRABHAKARAN MURUGESAN~

2024/06585 ~ Complete ~54:A BUILDING ELEMENT ~71:CHRISTIE, Warren, James, Alexander, 93 ADRIANA CR., ROOIHUISKRAAL, CENTURION, 0157, SOUTH AFRICA, South Africa ~72: CHRISTIE, Warren, James, Alexander~ 33:ZA ~31:2021/05818 ~32:16/02/2022;33:ZA ~31:2022/02748 ~32:08/03/2022

2024/06594 ~ Complete ~54:AMMONIUM SULFATE TREATED SYRINGE FOR INCREASED PHARMACEUTICAL COMPOSITION STABILITY ~71:Bayer HealthCare LLC, 100 Bayer Boulevard, WHIPPANY 07981, NJ, USA, United States of America ~72: HAN, Andrew~ 33:US ~31:63/304,451 ~32:28/01/2022

2024/06564 ~ Complete ~54:METHOD FOR EXTRACTING SOLANINE FROM ORGANS OF POTATO ~71:Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences, No. 22 Zhaojun Road, Yuquan District, Hohhot City, Inner Mongolia Autonomous Region, 010031, People's Republic of China;Ulanqab Institute of Agricultural and Forestry Sciences, No. 27, Chahar West Street, Jining New District, Ulanqab City, Inner Mongolia Autonomous Region, 012000, People's Republic of China ~72: CHANG, Yue;HAO, Yating;MA, Yanhong;NIE, Lizhen;SUN, Fengcheng;WANG, Ruigang;WANG, Yufeng;XI, Xianmei;XIE, Rui;ZHANG, Qionglin;ZHANG, Zhicheng~ 33:CN ~31:202410882670.4 ~32:02/07/2024

2024/06593 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING MESOTHELIN POSITIVE CANCERS ~71:A2 Biotherapeutics, Inc., 30301 Agoura Road, Suite 210, AGOURA HILLS 91301, CA, USA, United States of America ~72: ASUELIME, Grace E.;HAMBURGER, Agnes E.;KAMB, Carl Alexander;TOKATLIAN, Talar;WARSHAVIAK, Dora Toledo~ 33:US ~31:63/304,409 ~32:28/01/2022

2024/06561 ~ Complete ~54:NATIVE VALVE REPAIR DEVICES AND PROCEDURES ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric R.;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;TYLER II, Gregory Scott;WINSTON, Matthew T.~ 33:US ~31:62/615,213 ~32:09/01/2018 2024/06567 ~ Complete ~54:A DIRECTIONAL INDICATOR DEVICE ~71:SMITH, Frederick Willem Coenraad, Plaas Rietvallei, DELMAS 2210, Mpumalanga, SOUTH AFRICA, South Africa ~72: SMITH, Frederick Willem Coenraad~ 33:ZA ~31:2024/01847 ~32:05/03/2024

2024/06573 ~ Complete ~54:WASH BASIN WITH SMART STRAINER ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: Abdul Rahuman Azees;Charan Baskar;Guruprasad Muruganantham;Karthikeyan Mani;Ram kumar Rajagopal~

2024/06596 ~ Complete ~54:GENERATING AN ADJUSTMENT RESOURCE-EFFICIENT TRACK ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06601 ~ Complete ~54:GENERATING A RESOURCE-EFFICIENT TRACK FOR A MOTOR VEHICLE ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06565 ~ Complete ~54:SYNTHESIS METHOD FOR CHIRAL ALCOHOL WITH ORTHO-CHIRAL CENTER ~71:Huzhou College, No.1 Xueshi Road, Wuxing District, Huzhou City, Zhejiang Province, 313000, People's Republic of China ~72: SHAO, Sihang;WANG, Kun;XU, Hui;ZENG, Chuanfei;ZHANG, Bing~

2024/06583 ~ Complete ~54:CELL CULTURE METHODS FOR ANTIBODY PRODUCTION ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BAK, Hanne;CALLINAN, Laura;CASEY, Meghan;CHIBOROSKI, Mark;CONLON, Aishling;CORBETT, Daniel;CROWLEY, John;GOH, Hai-Yuan;HOURIHAN, John;JOHNSON, Amy, S.;LAFOND, Michelle;LAWRENCE, Shawn M.;MATTILA, John;MELLORS, Philip;NICHOLL, Liam;OSHODI, Shadia Abike;REILLY, James;STAIRS, Robert;STARLING, Alessandra;TANG, Xiaolin;TUSTIAN, Andrew;VARTAK, Ankit;WITMER, Ashley~ 33:US ~31:63/315,897 ~32:02/03/2022;33:US ~31:63/411,899 ~32:30/09/2022;33:US ~31:63/417,873 ~32:20/10/2022;33:US ~31:63/436,854 ~32:03/01/2023;33:US ~31:63/448,655 ~32:27/02/2023

2024/06589 ~ Complete ~54:SYNGAS CLEANING AND SOOT RECOVERY ~71:SIERRA ENERGY, 1222 Research Park, Dr. Davis, California, 95618, United States of America ~72: FRED CORK;JOHAN VAN WALSEM;PAUL VERGNANI;SABIAS LAM;VINEETH VALSAN~ 33:US ~31:63/313,800 ~32:25/02/2022

2024/06598 ~ Complete ~54:METHOD FOR GENERATING A RESOURCE-EFFICIENT TRACK FOR A VEHICLE ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06562 ~ Complete ~54:NATIVE VALVE REPAIR DEVICES AND PROCEDURES ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric R.;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;TYLER II, Gregory Scott;WINSTON, Matthew T.~ 33:US ~31:62/615,213 ~32:09/01/2018

2024/06569 ~ Complete ~54:AN AUTOMATIC CRABBING DEVICE ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANIKAM ROAD, SAMAYAPURAM, TRICHY, TAMIL NADU, 621112, India ~72: BHARATH SABARISH VILLAPAKKAM CHANDRA SEKARAN;MARIA AROCKIA RAJ MARIA ANTONY;SANTO ARUL RAJAA SURESH AROCKIA RAJ~

2024/06560 ~ Complete ~54:NATIVE VALVE REPAIR DEVICES AND PROCEDURES ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72:

DELGADO, Sergio;DIXON, Eric R.;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;TYLER II, Gregory Scott;WINSTON, Matthew T.~ 33:US ~31:62/615,213 ~32:09/01/2018

2024/06572 ~ Complete ~54:SYSTEM AND METHOD FOR MANAGING ENERGY STORAGE BATTERY ~71:Northeast Electric Power University, No. 169, Changchun Road, Chuanying District, Jilin City, Jilin Province, 132012, People's Republic of China ~72: Chen Qicheng;Gao Haitao;He Nan;Wang Dong;Zhang Yingjin;Zhao Dan~

2024/06587 ~ Complete ~54:FIXED BED GASIFIER ~71:SIERRA ENERGY, 1222 Research Park, Dr. Davis, California, 95618, United States of America ~72: DANIEL DODD;JOHAN VAN WALSEM;PAUL VERGNANI~ 33:US ~31:63/313,796 ~32:25/02/2022

2024/06577 ~ Complete ~54:SYSTEM AND METHOD FOR MONITORING AND MANAGING POWER ENDURANCE OF AN ENERGY STORAGE BATTERY PACK ~71:Northeast Electric Power University, No. 169, Changchun Road, Chuanying District, Jilin City, Jilin Province, 132012, People's Republic of China ~72: Chen Qicheng;Gao Haitao;He Nan;Wang Dong;Zhang Yingjin;Zhao Dan~

2024/06579 ~ Complete ~54:REHABILITATION MACHINE FOR LUMBAR VERTEBRA NURSING ~71:Xinyu University, No. 2666, Sunshine Avenue, High-tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: Li Qi;Li Yuhong~

2024/06599 ~ Complete ~54:METHOD FOR GENERATING AN ADJUSTMENT RESOURCE-EFFICIENT TRACK FOR A VEHICLE IN OPERATION ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06584 ~ Complete ~54:ELLIPTICAL DRIVE ~71:CONN-WELD INDUSTRIES, LLC, 315 Wabash Road, Princeton, United States of America ~72: HARMAN, Gregory K.~ 33:US ~31:63/318,813 ~32:11/03/2022

- APPLIED ON 2024/08/28 -

2024/06604 ~ Provisional ~54:TENT SYSTEM FOR A VEHICLE ~71:GADGETS4ALL (PTY) LTD, 28 Fishermans Village, Dana Bay, South Africa ~72: VAN DER WALT, Garnet~

2024/06605 ~ Provisional ~54:JOYSTICK BELLOW GAURD ~71:Comec Industries LTD PTY, 43 tenth street, South Africa;Mauro Moretti, 43 tenth street, South Africa ~72: Mauro Moretti~

2024/06614 ~ Complete ~54:BLASTING HOLE CHARGING DEVICE FOR MINE ROCK BLASTING ~71:Anhui Jiangnan Blasting Engineering Co., Ltd, East Zone of Huifeng Garden, Shanmen North Road, Ningguo City, Anhui Province, 242399, People's Republic of China ~72: FAN Baolong;GAO Pengfei;GE Lifang;LUO Jiangtao;MA Guoqiang;WANG Gang;YAN Bo;YANG Ling;ZHOU Xing~

2024/06616 ~ Complete ~54:A CARRIER ASSEMBLY AND A PIVOTING APPARATUS OF A MATERIAL HANDLING SYSTEM ~71:VDM SUPPLY CHAIN SOLUTIONS (PTY) LTD, FARM NO. 127/1, YZERVARKENSRUG, 7395 SALDANHA, SOUTH AFRICA, South Africa ~72: VAN ZYL, Pieter~ 33:ZA ~31:2021/01856 ~32:19/03/2021

2024/06619 ~ Complete ~54:A SAFETY SYSTEM FOR AN ASSISTIVE BLIND STICK ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Arunass Nithya Vembudurai;Arunkumar Ranganathan;Jaswant Venkatachalam;Jegadeesan Subramani;Jeyakumar Pitchaikani;Karthick Prasath Murugan~

2024/06638 ~ Complete ~54:GENERATING A MODIFIED RESOURCE-EFFICIENT TRACK ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06653 ~ Complete ~54:PYRIDAZINONE COMPOUND OR SALT THEREOF AND PEST CONTROL AGENT CONTAINING IT ~71:ISHIHARA SANGYO KAISHA, LTD., 3-15, Edobori 1-chome, Nishi-ku, Osaka-shi, Osaka, 5500002, Japan ~72: AYAKA TORII;KATSUYA ISHIHARA;KAZUHISA KIRIYAMA;RYUSUKE DOI;SHOTA KAWAKAMI;TADAHIRO YOSHIMURA;TATSUYA JUKUROGI;YUTA TAZAWA~ 33:JP ~31:2022-056258 ~32:30/03/2022

2024/06663 ~ Complete ~54:METHOD FOR GENERATING A MODIFIED ENERGY-EFFICIENT TRACK FOR A VEHICLE ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2021138351 ~32:22/12/2021

2024/06665 ~ Complete ~54:COMPOUND TARGETING SSTR2, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD., Room 101, Building 52, No. 500 Binhai East Road, Muping District, Yantai, People's Republic of China ~72: CHEN, Xiaoyuan;HE, Tian;WU, Xiaoming;XU, Pengfei;YANG, Qingbao~ 33:CN ~31:202211576787.7 ~32:09/12/2022

2024/06607 ~ Complete ~54:GREEN AND ENERGY-SAVING PREFABRICATED BUILDING WALL COMPONENT ~71:Muci YUE, No. 136 Huaian East Road, Yuhua District, Shijiazhuang City, Hebei Province, 050031, People's Republic of China;Xiuling CAO, No. 136 Huaian East Road, Yuhua District, Shijiazhuang City, Hebei Province, 050031, People's Republic of China ~72: Binbin WANG;Liang YU;Liming ZHANG;Muci YUE;Qiangqiang SUN;Qingqian MENG;Shuo HAN;Tao LAN;Weijie CAO;Xiaohan HU;Xinzhi LIU;Xiuling CAO;Xuchun WANG;Xuejia LIU;Zihan FENG~

2024/06608 ~ Complete ~54:SMART ASSISTANT TRAINING DEVICE FOR PHYSICAL EDUCATION ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Fuling Han~

2024/06615 ~ Complete ~54:A TOW BAR ASSEMBLY ~71:BOSAL AFRICA (PTY) LTD, Rooibok Street, Koedoespoort Industrial Site, PRETORIA 0186, Gauteng, SOUTH AFRICA, South Africa ~72: BURGER, Andre~ 33:ZA ~31:2023/07556 ~32:31/07/2023

2024/06621 ~ Complete ~54:A SYSTEM FOR VEHICLE COLLISION DETECTION USING COMPUTER BASED INTELLIGENCE ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Balaji Nagaraj;Janakan Dhanasekaran;Jegadeesan Subramani;Jeyakumar Pitchaikani;Kaviyarasen Balasubramaniam Chitra;Sanjeevadharsh Balamoorthy Rajeswari~

2024/06634 ~ Complete ~54:METHOD FOR IMPROVING AROMA OF BLACK TEA ~71:Chen Zhiyin, Group 1, Dake Neighborhood Committee, Dake Office, Louxing District, Loudi City, Hunan Province, People's Republic of China;Hunan University of Humanities, Science and Technology, No. 487, Dixing Road, Louxing District, Loudi City, Hunan Province, People's Republic of China;Liu Shan, Group 7, Hongquan Village, Baima Town, Lianyuan City, Hunan Province, People's Republic of China;Zeng Wenjuan, No. 31, Shanxipu Village, Chenjiafang Town, Xinshao County, Shaoyang City, Hunan Province, People's Republic of China;Zeng Wenjuan, No. 31, Shanxipu Village, Group 9, Yutang Yao Village, Jingpo Town, Rucheng County, Hunan Province, People's Republic of China ~72: Chen Zhiyin;Liu Shan;Zeng Wenjuan;Zhu Youpeng~

2024/06636 ~ Complete ~54:FORMULATING AND ANALYSING THE EFFECT OF CURCUMA LEUCORRHIZA ROXB. IN TREATING EXPERIMENTALLY INDUCED DIABETES MELLITUS ~71:Dr. Ashmita Debnath, Department of Veterinary Physiology & Biochemistry, College of Veterinary Sciences & A.H., Central Agricultural

University, Selesih, Aizawl, Mizoram, 796015, India;Dr. J. B. Rajesh, Department of Veterinary Medicine, College of Veterinary Sciences & A.H., Central Agricultural University, Selesih, Aizawl, Mizoram, 796015, India;Dr. Jagan Mohanarao Gali, Department of Veterinary Physiology & Biochemistry, College of Veterinary Sciences & A.H., Central Agricultural University, Selesih, Aizawl, Mizoram, 796015, India;Dr. L. Inaotombi Devi, Department of Medical Laboratory Sciences, Regional Institute of Paramedical & Nursing Sciences, Zemabawk, Aizawl – 796017, India;Dr. L. Reena Devi, Department of Chemistry, Pravabati College, Mayang Imphal, Manipur, 795132, India;Dr. Lalnuntluangi Hmar, Dean, College of Veterinary Sciences & A.H., Central Agricultural University, Selesih, Aizawl, Mizoram, 796015, India;Dr. M. Ayub Ali, Department of Veterinary Physiology & Biochemistry, College of Veterinary Sciences & A.H., Central Agricultural University, Selesih, Aizawl, Mizoram, 796015, India;Dr. M. Ayub Ali, Department of Veterinary Physiology & Biochemistry, College of Veterinary Sciences & A.H., Central Agricultural University, Selesih, Aizawl, Mizoram, 796015, India ~72: Dr. Ashmita Debnath;Dr. J. B. Rajesh;Dr. Jagan Mohanarao Gali;Dr. L. Inaotombi Devi;Dr. L. Reena Devi;Dr. Lalnuntluangi Hmar;Dr. M. Ayub Ali~

2024/06641 ~ Complete ~54:GENERATING A RECUPERATION RESOURCE-EFFICIENT TRACK FOR A VEHICLE IN OPERATION ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06645 ~ Complete ~54:METHOD AND FACILITY FOR PREPARING AND EVALUATING BATTERIES ~71:PRIMOBIUS GMBH, Wiesenstr. 30, Germany ~72: BREUER, Michael;GIER-ZUCKETTO, Joachim~ 33:DE ~31:10 2022 203 084.2 ~32:29/03/2022;33:DE ~31:10 2023 200 645.6 ~32:26/01/2023

2024/06650 ~ Complete ~54:METHOD FOR PRODUCING EXHAUST GAS PURIFICATION CATALYST ~71:CATALER CORPORATION, 7800, Chihama, Kakegawa-shi, Shizuoka, 4371492, Japan ~72: ETSUKO OHARA;KEITA YAMAMOTO;SUGURU MATSUI~ 33:JP ~31:2022-031196 ~32:01/03/2022

2024/06655 ~ Complete ~54:IMPROVED CELL LINES AND METHODS FOR THE PRODUCTION OF ADENO-ASSOCIATED VECTORS ~71:CEVEC Pharmaceuticals GmbH, Gottfried-Hagen-Straße 60, KÖLN 51105, GERMANY, Germany ~72: BONIFERT, Tobias;HUSSONG, Michelle;KEWES, Helmut~ 33:EP ~31:22159636.4 ~32:02/03/2022;33:EP ~31:22206412.3 ~32:09/11/2022

2024/06661 ~ Complete ~54:CATALYST FOR HYDROGENATION OF AMMONIA UNDER SUPERCRITICAL CONDITION, PREPARATION METHOD AND APPLICATION THEREOF ~71:SHANDONG NHU FINE CHEMICAL SCIENCE AND TECHNOLOGY COMPANY LTD., No.00268 Longwei Branch Road, Yangzi Street, Binhai District, Weifang, People's Republic of China;SHANDONG NHU VITAMIN CO., LTD., No. 00887 Lin Gang West Road, Binhai Economic Development Zone, Weifang, People's Republic of China;ZHEJIANG NHU CO., LTD., NO.418 Dadao West Road, Xinchang, Shaoxing, People's Republic of China ~72: Chen Zelu;Guo Xia;Li Shoulei;Mao Jianyong;Wang Hui;Yang Chuanyu~ 33:CN ~31:2023114811468 ~32:08/11/2023

2024/06606 ~ Provisional ~54:NANOPOROUS SPINEL LI-MN-O CATHODE MATERIAL ~71:UNIVERSITY OF LIMPOPO, C/O R71 Tzaneen Road and University Street, South Africa ~72: Beauty Shibiri;Phuti Esrom Ngoepe;Raesibe Sylvia Ledwaba~

2024/06613 ~ Complete ~54:ANIMAL BED ~71:DMM GROUP (PTY) LTD, 20 Flamik Avenue, Douglasdale, South Africa ~72: PERUCH, Duncan~

2024/06625 ~ Complete ~54:A METHOD OF PREPARATION OF PAVER BLOCK USING PLASTIC WASTE AND RECYCLED AGGREGATES ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Balaji Govindan;Srinivasan Nachimuthu palanisamy;Vetturayasudharsanan Ramasamy~

2024/06628 ~ Complete ~54:AN INTEGRATED SYSTEM FOR MANAGING WATER LEVEL IN SUBWAY FOR ACCIDENT PREVENTION ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM,

KARUR, TAMIL NADU, 639113, India ~72: Siva kumar Thanganadar;Swathi Ramalingam;Swetha Kannan;Varshini Senthil Kumar~

2024/06632 ~ Complete ~54:A SYSTEM FOR CONTROLLING THE FLOW OF FLUID IN A FLOW CONTROL VALVE ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr. Sivanandam Kaliannan;PRABIKA RAMESH;RITHIKA GANESAN;SANJITHA RAMALINGAM;SANTHIGA PALANISAMY~

2024/06643 ~ Complete ~54:POLYMER BINDER BASED ON 2-OCTYL ACRYLATE, N-BUTYL ACRYLATE AND METHYL METHACRYLATE FOR AQUEOUS COATING COMPOSITIONS CONTAINING TITANIUM DIOXIDE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: EICHHORN, Sabine;FLECKENSTEIN, Christoph;FLEISCHHAKER, Friederike;MISSKE, Andrea~ 33:EP ~31:22155150.0 ~32:04/02/2022

2024/06646 ~ Complete ~54:METHOD AND SYSTEM FOR OBTAINING GRAPHITE ~71:PRIMOBIUS GMBH, Wiesenstr. 30, Germany ~72: BREUER, Michael;GIER-ZUCKETTO, Joachim~ 33:DE ~31:10 2022 203 084.2 ~32:29/03/2022;33:DE ~31:10 2023 200 645.6 ~32:26/01/2023;33:DE ~31:10 2023 201 760.1 ~32:27/02/2023

2024/06656 ~ Complete ~54:USE OF ROLUPERIDONE IN PREVENTING RELAPSE IN SCHIZOPHRENIA PATIENTS ~71:Minerva Neurosciences, Inc., 1500 District Avenue, BURLINGTON 01803, MA, USA, United States of America ~72: LUTHRINGER, Remy~ 33:US ~31:63/309,874 ~32:14/02/2022

2024/06609 ~ Complete ~54:LIGAMENT TRAINING DEVICE FOR PHYSICAL EDUCATION ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Fuling Han~

2024/06642 ~ Complete ~54:DEVICE FOR TREATING A FRACTURE ~71:I.T.S. GMBH, AUTAL 28, 8301 LASSNITZHÖHE, AUSTRIA, Austria ~72: BÜHREN, Volker;PRAGER, Ronald~ 33:AT ~31:A 50051/2022 ~32:01/02/2022

2024/06647 ~ Complete ~54:PROCESS AND SYSTEM FOR OBTAINING GRAPHITE ~71:PRIMOBIUS GMBH, Wiesenstr. 30, Germany ~72: BREUER, Michael;GIER-ZUCKETTO, Joachim~ 33:DE ~31:10 2022 203 084.2 ~32:29/03/2022;33:DE ~31:10 2023 200 645.6 ~32:26/01/2023;33:DE ~31:10 2023 201 763.6 ~32:27/02/2023

2024/06651 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING ANTI-CTLA4-ANTI-PD-1 BISPECIFIC ANTIBODY AND CHIAURANIB ~71:AKESO PHARMACEUTICALS, INC., 158 Kangyao Road South, Huangpu, Guangzhou, Guangdong 510799, People's Republic of China;SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., 21F-24F, Building B, Zhigu Industrial Park, Shuguang Community, Xili Street, Nanshan District, Shenzhen, Guangdong, 518057, People's Republic of China ~72: BAIYONG LI;DESI PAN;XIANPING LU;YU XIA;ZHIQIANG NING;ZHONGMIN WANG~ 33:CN ~31:202210174665.9 ~32:24/02/2022

2024/06654 ~ Complete ~54:AMPRELOXETINE FOR USE FOR TREATING MULTIPLE SYSTEM ATROPHY ~71:Theravance Biopharma R&D IP, LLC, 901 Gateway Boulevard, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BOURDET, David L.;GUERIN, Tadhg;NORCLIFFE-KAUFMANN, Lucy;VICKERY, Ross;ZHENG, Beiyao~ 33:US ~31:63/324,313 ~32:28/03/2022

2024/06662 ~ Complete ~54:METHOD FOR GENERATING AN ENERGY-EFFICIENT DRIVING ROUTE FOR THE VEHICLE IN OPERATION ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2021138353 ~32:22/12/2021

2024/06664 ~ Complete ~54:METHOD FOR GENERATING AN ENERGY-EFFICIENT TRACK FOR A VEHICLE ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2021135851 ~32:07/12/2021

2024/06648 ~ Complete ~54:PROCESS AND SYSTEM FOR OBTAINING GRAPHITE ~71:PRIMOBIUS GMBH, Wiesenstr. 30, Germany ~72: BREUER, Michael;GIER-ZUCKETTO, Joachim~ 33:DE ~31:10 2022 203 084.2 ~32:29/03/2022;33:DE ~31:10 2023 200 645.6 ~32:26/01/2023;33:DE ~31:10 2023 201 762.8 ~32:27/02/2023

2024/06657 ~ Complete ~54:SYSTEMS AND METHODS FOR PURIFYING ALUMINUM ~71:Reynolds Consumer Products LLC, 1900 West Field Court, LAKE FOREST 60045, IL, USA, United States of America ~72: COURCHESNE, William;DAVIS, Boyd R.;SNYDER, Timothy M.~ 33:US ~31:63/318,595 ~32:10/03/2022

2024/06659 ~ Complete ~54:ANTI-PATHOGENIC AEROSOL COMPOSITIONS ~71:SQUIRE KENT PTY LIMITED, 286 Pacific Highway, Crows Nest, Australia ~72: KUPPUSAMY, Rajesh;WILLCOX, Mark;YASSA, Peter~ 33:AU ~31:2022900472 ~32:28/02/2022

2024/06610 ~ Complete ~54:GRAND CANAL CULTURAL HERITAGE LANDSCAPE PERCEPTION EVALUATION DEVICE ~71:Shandong Jianzhu University, No. 1000 Fengming Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: CAO Qingqing;LIU Xinyan;LYU Hangsheng;REN Zhen;SONG Feng;WANG Jiening;WANG Yue;WANG Ziyi;WEI Yuanyuan;WU Yanan;XU Yabing;ZHAO Yachen~

2024/06623 ~ Complete ~54:AN ELECTRIC BIKE THEFT PROTECTION SYSTEM ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Durai Murugan Alagarsamy;Gokul Rajendran;Kavin Palanisamy;Kesavan Kannan;Maniraj Perumal;Shalini Senthil Kumar~

2024/06630 ~ Complete ~54:A SYSTEM FOR TABLE AND FOOD RESERVATION IN RESTAURANTS ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr.SHEIKDAVOOD KAITHBEER;SIVASHANKAR BALASUBRAMANIYAM;SOWGAR RAVICHANDRAN;SRI HARI SELVAM SHANMUGAPRIYA;SUGANTHRAJ PALANISAMY~

2024/06633 ~ Complete ~54:POLE FOR USE WITH ELECTRICAL APPARATUS ~71:MARCUS, Dean Shane, Aztec House, 65 Serenade Road, South Africa ~72: MARCUS, Dean Shane~ 33:ZA ~31:2023/08440 ~32:01/09/2023

2024/06603 ~ Provisional ~54:POWER BANK ~71:BOTHA, Gideon Groenewald, 16 Country View Estate, Mooikloof, South Africa ~72: BOTHA, Gideon Groenewald~

2024/06611 ~ Complete ~54:FUNCTIONAL PROTEIN FEED ADDITIVE BASED ON COMBINED YEAST FERMENTATION OF BAIJIU DISTILLER'S GRAIN, PREPARATION METHOD AND APPLICATION THEREOF ~71:SICHUAN RUNGE BIOTECHNOLOGY CO., LTD, No. 6, Qingdao Road, Mianzhu City, Deyang City, Sichuan Province, People's Republic of China ~72: LIU Chao;LU Lixuan;QIN Zhenxuan~ 33:CN ~31:CN202311770620.9 ~32:21/12/2023

2024/06612 ~ Complete ~54:MAGNESIUM OXYSULFATE CEMENT HIGH-STRENGTH FOAM BOARD AND PREPARATION METHOD THEREOF ~71:Solid Waste and Chemicals Management Center of the Ministry of Ecology and Environment of China, No.1 Yuhui South Road, Chaoyang District, Beijing, 100029, People's Republic of China;University of Science and Technology Beijing, No.30 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: CHEN Xinying;DU Huihui;HUO Huimin;LI Yunyun;MU Xinli;NI Wen;QI Zihan;YANG Guodong~

2024/06617 ~ Complete ~54:INSULIN CONTAINING PHARMACEUTICAL COMPOSITIONS ~71:Novo Nordisk A/S, Novo Allé, BAGSVAERD 2880, DENMARK, Denmark ~72: HANSEN, Rosa Rebecca Erritzøe;HAVELUND, Svend;HOSTRUP, Susanne;MARINO, Jesper Søndergaard;NORRMAN, Mathias;SCHLEIN, Morten;STEENSGAARD, Dorte Bjerre;STRAUSS, Holger Martin~ 33:EP ~31:16204688.2 ~32:16/12/2016

2024/06618 ~ Complete ~54:INSULIN CONTAINING PHARMACEUTICAL COMPOSITIONS ~71:Novo Nordisk A/S, Novo Allé, BAGSVAERD 2880, DENMARK, Denmark ~72: HANSEN, Rosa Rebecca Erritzøe;HAVELUND, Svend;HOSTRUP, Susanne;MARINO, Jesper Søndergaard;NORRMAN, Mathias;SCHLEIN, Morten;STEENSGAARD, Dorte Bjerre;STRAUSS, Holger Martin~ 33:EP ~31:16204688.2 ~32:16/12/2016

2024/06620 ~ Complete ~54:AN AUTOMATED SOLAR DRONE FOR SURVEILLANCE AND SECURITY ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr. Meivel Sadasivam;Dr. Sakthi Periasamy;Nethradevi Ganesan;Nishalini Jemima Velganni;Nishanthi Senthilkumar;Samyuktha Selvakumar~

2024/06626 ~ Complete ~54:A SYSTEM FOR GUIDING PARENTS IN ACADEMIC INSTITUTIONS ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Maniraj Perumal;Vishweshwar Periyannan~

2024/06629 ~ Complete ~54:ARTIFICIAL INTELLIGENCE ENABLED HEALTH MONITORING SYSTEM ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr.Jegadeesan Subramani;Pradeep P;Prasanna Kumar R;Prasanth P;Rahul B~

2024/06637 ~ Complete ~54:METHOD FOR GENERATING A RESOURCE-EFFICIENT DRIVING ROUTE FOR THE VEHICLE IN OPERATION ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06639 ~ Complete ~54:METHOD FOR GENERATING A RESOURCE-EFFICIENT DRIVING ROUTE ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06644 ~ Complete ~54:CONNECTED CLOSURE DEVICE COMPRISING A STABILISED CONNECTION ELEMENT ~71:BERICAP HOLDING GMBH, Kirchstr. 5, Germany ~72: KRAUTKRÄMER, Alexander~ 33:DE ~31:10 2022 110 068.5 ~32:26/04/2022;33:DE ~31:10 2022 110 069.3 ~32:26/04/2022

2024/06622 ~ Complete ~54:AN AUTOMATIC CUT OFF SYSTEM FOR AN ELECTRIC MOTOR PROTECTION ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: KAVINESH CHIDHAMBARAM;KAVINRAJ SUBRAMANI;MANOJ KUMAR KUPPUSAMY;MUTHUMANI PERUMALSAMY;RAMAKRISHNAN PERUMAL~

2024/06624 ~ Complete ~54:AN INDUSTRIAL AUTOMATION SYSTEM FOR PRODUCTION LINE ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Gowsidharan Sumathi Thangavel;Krithicroson Raj Kumar;Raja Guru Ramaraj~

2024/06627 ~ Complete ~54:A RETRACTABLE LADDER SYSTEM FOR LOAD CARRYING VEHICLE ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Athish Nandagopal;Barani Karthik Manoharan;Mohan Prasad Manimohan~

2024/06631 ~ Complete ~54:AN INTELLIGENT WAVE REPULSION TECHNIQUE BASED SAFETY SYSTEM FOR VEHICLES ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL

NADU, 639113, India ~72: Dr. NITHYANANDAM THANGAVELU;SABAREESHWARAN KARUPPAIYA;SAKTHI NAVEEN RAJA;SRI VISHNU RAVANAN~

2024/06635 ~ Complete ~54:METHOD FOR INCREASING THEAFLAVIN OF BLACK TEA ~71:Chen Zhiyin, Group 1, Dake Neighborhood Committee, Dake Office, Louxing District, Loudi City, Hunan Province, People's Republic of China;Hunan University of Humanities, Science and Technology, No. 487, Dixing Road, Louxing District, Loudi City, Hunan Province, People's Republic of China;Liu Shan, Group 7, Hongquan Village, Baima Town, Lianyuan City, Hunan Province, People's Republic of China;Zeng Wenjuan, No. 31, Shanxipu Village, Chenjiafang Town, Xinshao County, Shaoyang City, Hunan Province, People's Republic of China;Zhu Youpeng, Group 9, Yutang Yao Village, Jingpo Town, Rucheng County, Hunan Province, People's Republic of China ~72: Chen Zhiyin;Liu Shan;Zeng Wenjuan;Zhu Youpeng~

2024/06640 ~ Complete ~54:GENERATING A RESOURCE-EFFICIENT TRACK WITH STOP POINT FOR A VEHICLE IN OPERATION. ~71:PANKOV, Boris Valerevich, C/ EDIL MARINA OLCINA, 3, ALICANTE, 03540, Spain ~72: PANKOV, Boris Valerevich~ 33:RU ~31:2022101929 ~32:28/01/2022

2024/06649 ~ Complete ~54:EPOXY AMINE (METH)ACRYLATE HYDROXY URETHANE RESIN COMPOSITION ~71:Zincodic AAP Limited, Dixcart House, Saint Kitts and Nevis ~72: BARTHEL, Bernard~ 33:GB ~31:2202769.2 ~32:28/02/2022

2024/06652 ~ Complete ~54:DUST SUPPRESSION TREATMENT DEVICE FOR ASPHALT CONCRETE MIXING STATION ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9,Chunxiu Road, Dongcheng District, Beijing, 100027, People's Republic of China ~72: XINRUI XIA~ 33:CN ~31:202410768310.1 ~32:14/06/2024

2024/06658 ~ Complete ~54:LIGHT-ACTIVATED CHLORINE DIOXIDE-RELEASING POWDER AND METHOD OF MANUFACTURE ~71:Phiex Technologies, Inc., One Boston Place, Suite 2600, BOSTON 02108, MA, USA, United States of America ~72: BARENBERG, Sumner;CAMERON, Robert;TIAN, Xiao~ 33:US ~31:17/677,419 ~32:22/02/2022

2024/06660 ~ Complete ~54:COMBINATION THERAPY OF PI3K INHIBITOR AND PD-1 INHIBITOR ~71:MEI PHARMA, INC., 11455 EI Camino Real, Suite 250, United States of America ~72: GHALIE, Richard;GOLD, Daniel P.~ 33:US ~31:63/315,380 ~32:01/03/2022

- APPLIED ON 2024/08/29 -

2024/06675 ~ Complete ~54:AN IMPLEMENTATION METHOD FOR SETTING THE LATERAL ISOLATION BOUNDARY TO ACHIEVE THE PREVENTING LATERAL SEEPAGE AND REDUCTION OF FRICTION IN-SITU SLOPE TESTING BY LOCAL ARTIFICIAL RAINFALL ~71:Xi'an University of Architecture and Technology, 13 YANTA Road, Xi'an, Shaanxi Province, 710075, People's Republic of China;Xi'an University of Technology, 5 Jinhua South Road, Xi'an, Shaanxi Province, 710048, People's Republic of China;Yan'an University, No.1 Gongxue North Road, Yan'an new district, Yan'an city, Shaanxi Province, People's Republic of China ~72: Guobing WANG;Jin LI;Lei WANG;Quanwei HAN;Rongjian LI;Rongjin LI;Xuecheng YOU;Zhengwu YANG~

2024/06680 ~ Complete ~54:DESIGN METHOD AND SYSTEM FOR UNDERLYING MECHANISM OF USER INTERFACE INTERACTION IN AIRCRAFT PERFORMANCE SOFTWARE ~71:Civil Aviation Flight University of China, No. 46, Nanchang Road, Guanghan City, Sichuan Province, 618307, People's Republic of China ~72: Duan Tiecheng;Liu Yuyu;Liu Zhiqiang;Qiu Yang;Wang Ke;Wang Yici;Zeng Xiaohong;Zhang Yan;Zhou Zeyou;Zhu Xinyi~ 33:CN ~31:2023113720495 ~32:23/10/2023 2024/06684 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION WITH KIDNEY TONIFYING AND SPLEEN AND STOMACH STRENGTHENING, PREPARATION METHOD THEREFOR, AND USE THEREOF ~71:LI, Fengxiang, Room 202, Unit 4, Building 12, Xianghe Homeland, Baodi District, People's Republic of China ~72: LI, Fengxiang~ 33:CN ~31:2024109620501 ~32:17/07/2024

2024/06690 ~ Complete ~54:METHODS OF TREATMENT USING P-TAU181 LEVEL ~71:Eisai R&D Management Co., Ltd., 6-10 Koishikawa, 4-Chome, Bunkyo-ku, TOKYO 112-8088, JAPAN, Japan ~72: DHADDA, Shobha;GORDON, Robert;HAYATO, Seiichi;IRIZARRY, Michael;KANEKIYO, Michio;KAPLOW, June;KOYAMA, Akihiko;KRAMER, Lynn;LANDRY, Ishani;REYDERMAN, Larisa;SACHDEV, Pallavi;SWANSON, Chad;VERBEL, David~ 33:US ~31:63/306,060 ~32:02/02/2022;33:US ~31:63/269,394 ~32:15/03/2022;33:US ~31:63/364,617 ~32:12/05/2022

2024/06696 ~ Complete ~54:BAKING RACK CONVENIENT FOR UNLOADING ~71:ZHEJIANG OUHENG FOOD CO., LTD, Yanghao Block, Yunfeng Street Industrial Park, Suichang County, Lishui City, People's Republic of China ~72: HE, Jianwu;HU, Huamei;WU, Xue;ZHOU, Jinlong;ZHU,Yuping~

2024/06666 ~ Provisional ~54:SYSTEM AND METHOD FOR A SIMPLIFIED AND STATISTICALLY RIGOUROUS DESTINATION SELECTION WITH GRAPHICAL INTERFACE ~71:POLAKOW, Daniel Adam, Unit 16, 10 Bordeaux Street, Village Square, Nooitgedacht, South Africa ~72: POLAKOW, Daniel Adam~

2024/06682 ~ Complete ~54:A SYSTEM FOR INSPECTION OF PLASTIC BOTTLES ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: KANDHASAMY KARTHIK;PREETHA RAJAVEL;RANGA SHREE SARAVANAN;SOUNDHARYA SAMYDHURAI;YUVASRI SUBRAMANI~

2024/06689 ~ Complete ~54:HEEL SHROUD HAVING STRESS CONCENTRATION REDUCTION GEOMETRY AND ENHANCED DURABLITY FOR USE IN CONSTRUCTION MACHINES ~71:CATERPILLAR INC., 100 NE Adams Street - AB6450, United States of America ~72: KARUNAKARAN, Ezhil V.;MCCAFFREY, Brandon H.~ 33:US ~31:17/690,341 ~32:09/03/2022

2024/06697 ~ Complete ~54:BAKING OVEN ~71:ZHEJIANG OUHENG FOOD CO., LTD, Yanghao Block, Yunfeng Street Industrial Park, Suichang County, Lishui City, People's Republic of China ~72: HE, Jianwu;HU, Huamei;WU, Xue;ZHOU, Jinlong;ZHU, Yuping~

2024/06672 ~ Complete ~54:SUPPORT ASSEMBLY FOR A WINCH ~71:BUYS, Frederick Anthonie, 12 Steenbok Street, SWARTKLIP 0370, Limpopo Province, SOUTH AFRICA, South Africa ~72: BUYS, Frederick Anthonie~

2024/06676 ~ Complete ~54:A DETECTION TROLLEY ~71:China RAILWAY NO.2 Engineering Group Co., Ltd., No. 16, Tongjin Road, Jinniu District, Chengdu City, Sichuan Province, 610031, People's Republic of China;China Railway Investment Group Co., Ltd., Room 309, Building 1, No. 9, Xinghuo Road, Fengtai District, Beijing City, 100070, People's Republic of China;China Railway No.2 Bureau No.4 Engineering Co., Ltd., No. 8, Xinhe Road, Qingbaijiang District, Chengdu City, Sichuan Province, 610300, People's Republic of China;China Railway Second Bureau Changchun Engineering Co., Ltd., Building 1#, Yongchang Community, Nanguan District, Changchun City, Jilin Province, 130041, People's Republic of China ~72: Gang Yang;Haowen Duan;Jianwen Ren;Shuang Tan;Wei Zhao;Zhenyu He~ 33:CN ~31:202420095863.0 ~32:12/01/2024

2024/06683 ~ Complete ~54:RECOMBINANT FUSION PROTEIN OF HORSE FSH AND ITS PREPARATION METHOD AND APPLICATIONS ~71:INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, No.22 Zhaojun Road, Yuquan District, Hohhot City, People's Republic of China ~72: JIA, Xiaoqing;LI, Jian;LI, Zeting;QIAO, Jianmin;SU, Shaofeng;TIAN, Jing;WU, Haiqing;ZHANG, Chongzhi;ZHAO, Xiaojuan~ 33:CN ~31:202410774997X ~32:14/06/2024

2024/06687 ~ Complete ~54:PNEUMATIC CONVEYOR DEVICE FOR GRANULAR MATERIAL, AND AGRICULTURAL DISTRIBUTING MACHINE ~71:LEMKEN GMBH & CO. KG, Weseler Strasse 5, Germany ~72: BEIER, Carsten;SURBORG, Carsten~ 33:DE ~31:10 2022 105 904.9 ~32:14/03/2022

2024/06695 ~ Complete ~54:AN ARTICLE COMPRISING A COMPOSITE COMPRISING GRAPHITE ~71:FOSECO INTERNATIONAL LIMITED, 1 Midland Way Central Park, Barlborough Links, Derbyshire, S43 4XA, United Kingdom ~72: NAGENDRA NAG~ 33:EP ~31:22161574.3 ~32:11/03/2022;33:EP ~31:23156939.3 ~32:15/02/2023

2024/06667 ~ Provisional ~54:LEAF SPRING COUPLING ~71:JACQUES HENRI SMIT, 9 MARBLE CRESCENT, South Africa;Jacques Henri Smit, 9 Marble Crescent, South Africa ~72: JACQUES HENRI SMIT~ 33:ZA ~31:LSC\_001 ~32:27/08/2024

2024/06671 ~ Complete ~54:A DEVICE FOR DETECTING DANGEROUS GOODS DURING AVIATION TRANSPORTATION ~71:Yantai Nanshan University, Daxue Road, Donghai Tourist Resort, Longkou, Yantai, Shandong Province, People's Republic of China ~72: Fang Chuanxin;Li Yuanzheng;Liang Hao;Liu Yigang~ 33:CN ~31:2024109308539 ~32:11/07/2024

2024/06674 ~ Complete ~54:TRAFFIC FLOW PREDICTION METHOD BASED ON FEDERATED LEARNING AND ASYNCHRONOUS GRAPH CONVOLUTIONAL NETWORK ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: DU, Xiaojie;GUO, Lizheng;LIANG, Chengwu;LIU, Yunchang;SHI, Chunlei;WAN, Fei;ZHAO, Junmin~

2024/06679 ~ Complete ~54:AN ARTIFICIAL INTELLIGENCE POWERED DETECTION SYSTEM FOR TRAFFIC OPTIMIZATION ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Aravindraj Sivasubramanian;Marimuthu Murugesan;Mohanraj Sengottaiyan;Vaishnavee Mugunthan;Varnika Sakthivelmurugan~

2024/06691 ~ Complete ~54:CAMELID ANTIBODIES AGAINST ACTIVATED PROTEIN C AND USES THEREOF ~71:Coagulant Therapeutics Corporation, Seoul Biohub, 402 Research Bldg., 117-3 Hoegi-ro, DONGDAEMUN-GU 02455, REPUBLIC OF KOREA, Republic of Korea ~72: BAUZON, Maxine;HERMISTON, Terry;SCHNEIDER, Douglas W.;SIM, Derek~ 33:US ~31:63/316,927 ~32:04/03/2022

2024/06694 ~ Complete ~54:ANTI-CD137 ANTIBODIES AND METHODS OF MAKING AND USING THE SAME ~71:ADAGENE PTE. LTD., 16 Raffles Quay #33-03 Hong Leong Building, Singapore, 048581, Singapore ~72: FANGYONG DU;GUIZHONG LIU;PETER PEIZHI LUO;YAN LI~ 33:CN ~31:PCT/CN2022/079475 ~32:07/03/2022

2024/06673 ~ Complete ~54:HEATSINK ~71:ETA Green Power Limited, Hethel Engineering Centre, Chapman Way, HETHEL NR14 8FB, UNITED KINGDOM, United Kingdom ~72: BOWMAN, Liam;MORGAN, David~ 33:GB ~31:2117309.1 ~32:30/11/2021;33:GB ~31:2216860.3 ~32:11/11/2022

2024/06688 ~ Complete ~54:CONSTRUCTION MACHINE HEEL SHROUD HAVING STRESS CONCENTRATION REDUCTION GEOMETRY AND ENHANCED DURABLITY ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: KARUNAKARAN, Ezhil Valavan;MCCAFFREY, Brandon Hammig~ 33:US ~31:17/690,431 ~32:09/03/2022 2024/06670 ~ Provisional ~54:KNEE REPLACEMENT ACTIVITY RECOGNITION AND PREDICTION ~71:MOKETE, Lipalo, Cedar Ave West & Cedar Ave, Fourways, South Africa ~72: MOKETE, Lipalo~

2024/06681 ~ Complete ~54:LASER WELDING ROBOT AND WELDING METHOD THEREFOR ~71:Huainan Normal University, No. 238, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Wu Long;Zheng Mingliang~

2024/06685 ~ Complete ~54:A SHIELD LAUNCHING GUIDE PLATFORM AND A LAUNCHING ANGLE ADJUSTMENT METHOD ~71:CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD, Room 501-510, 601-610, No. 832, Yuejiang Middle Road, Haizhu District, Guangzhou, People's Republic of China ~72: CHEN, Erhu;DUAN, Xijie;GUO, Qi;HU, Zhenxi;LI, Jianxun;LI, Ling;LI, Xiaofei;SHAO, Jianlong;SHI, Jian;SHI, Yushan;WANG, Jianmeng;WANG, Xiaomeng;WU, Haixiang;WU, Lianghui;WU, Xiaozan;XIE, Yongjun;ZHANG, Dongdong;ZHANG, Pengxiang;ZHANG, Sai;ZHANG, Xiaofeng;ZHANG, Yantao;ZHU, Zhenbo~

2024/06693 ~ Complete ~54:DEVICE FOR SUSPENDING A BRIDLE AND USE OF A DEVICE ~71:ANNA LENA DUVENECK, Ellinghausen 1, 27239, Twistringen, Germany;CHRISTOPH FRANZIUS, Krammbeerenstraße 29b, 26316, Varel, Germany ~72: ANNA LENA DUVENECK;CHRISTOPH FRANZIUS~ 33:DE ~31:20 2022101 171.0 ~32:03/03/2022

2024/06668 ~ Provisional ~54:MODULAR HYDROPONIC PLANT GROWING TOWER AND STACKABLE MODULES FOR ASSEMBLING THE SAME ~71:ATLAS PLASTICS (PTY) LIMITED, 31 Neutron Road, Uraniaville, South Africa ~72: RIAAN UYS VENTER~

2024/06678 ~ Complete ~54:A BANKING METHOD AND SYSTEM WITH A SECURITY ENHANCEMENT ~71:KEENSA (Pty) Ltd, Unit 783, Kikuyu, Waterfall Estate, c/o Maxwell and Pretoria Main Road, Waterfall City, MIDRAND 2090, SOUTH AFRICA, South Africa ~72: VURAYAI, Ian Michael~

2024/06692 ~ Complete ~54:CONVEYOR GAP BLOCKER ~71:FLEXIBLE STEEL LACING COMPANY, 2525 Wisconsin Avenue, United States of America ~72: PETTINGA, Mark Steven~ 33:US ~31:63/316,344 ~32:03/03/2022

2024/06669 ~ Provisional ~54:MEDICAL PATIENT REFERRAL ~71:KEYSER, Etienne Hendrik, 3 Zandvliet, Glen Erasmia, South Africa ~72: KEYSER, Etienne Hendrik~

2024/06677 ~ Complete ~54:RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING ~71:BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD., Room 101D1-7, 1st Floor, Building 1, No. 6, Shangdi West Road, Haidian District Beijing, Beijing 100085, People's Republic of China ~72: BING YU;CHE-WEI KUO;HONG-JHENG JHU;WEI CHEN;XIANGLIN WANG;XIAOYU XIU;YI-WEN CHEN~ 33:US ~31:63/145,964 ~32:04/02/2021

2024/06686 ~ Complete ~54:DEVICE AND METHOD FOR PRODUCING A CAN LID ~71:TOP CAP HOLDING GMBH, Untere Sparchen 50, Austria ~72: PIECH, Gregor Anton~ 33:DE ~31:10 2022 106 622.3 ~32:22/03/2022

- APPLIED ON 2024/08/30 -

2024/06713 ~ Complete ~54:WALKING AID FOR NURSING ~71:JIANGSU COLLEGE OF NURSING, No.9, Keji Road, Qingjiangpu District, Huaian City, People's Republic of China ~72: YANG, Ting;ZHOU, Jinli;ZHU, Jing~

2024/06715 ~ Complete ~54:EXTENDED, HIGH DOSE VEGF ANTAGONIST REGIMENS FOR TREATMENT OF ANGIOGENIC EYE DISORDERS ~71:BAYER HEALTHCARE LLC, 100 Bayer Boulevard, Whippany, United States of America;REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ASMUS, Friedrich;BERLINER, Alyson J;CHU, Karen;DA SILVA LEAL, Sergio

Casimiro;EISSING, Thomas;RITTENHOUSE, Kay D.;VITTI, Robert, L.~ 33:US ~31:63/319,865 ~32:15/03/2022;33:US ~31:63/404,511 ~32:07/09/2022;33:US ~31:63/404,889 ~32:08/09/2022;33:US ~31:63/411,589 ~32:29/09/2022;33:US ~31:63/412,158 ~32:30/09/2022;33:US ~31:63/421,296 ~32:01/11/2022

2024/06716 ~ Complete ~54:METHODS FOR CHARACTERIZATION OF VIRAL GENOME USING BASE MODIFICATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DAVIS, Steven;RICHARDSON, Jared~ 33:US ~31:63/320,951 ~32:17/03/2022

2024/06719 ~ Complete ~54:SATELLITE-ENABLED NODE FOR AMBIENT NOISE TOMOGRAPHY ~71:FLEET SPACE TECHNOLOGIES PTY LTD, 8A Myer Court, Australia ~72: BORG, Braeden James;PEARSON, Matthew James~ 33:AU ~31:2022900533 ~32:04/03/2022;33:AU ~31:2022900680 ~32:18/03/2022;33:AU ~31:2022209325 ~32:28/07/2022

2024/06724 ~ Complete ~54:1 H-PYRAZOLO[4,3-D]PYRIMIDINE DERIVATIVES AS STAPHYLOCOCCUS AUREUS INHIBITORS ~71:Dr Reddy's Institute of Life Sciences, University of Hyderabad Campus, Gachibowli, Telangana, HYDERABAD 500046, INDIA, India ~72: EHTESHAM, Nasreen Zafar;HASNAIN, Seyed Ehtesham;MISRA, Parimal;ORUGANTI, Srinivas;PAL, Manojit~ 33:IN ~31:202241005390 ~32:01/02/2022

2024/06731 ~ Complete ~54:PEPTIDE INHIBITORS OF INTERLEUKIN-23 RECEPTOR AND PHARMACEUTICAL COMPOSITIONS THEREOF ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B2340, BELGIUM, Belgium ~72: BRESLIN, David T.;BROECKX, Geraldine;CANTO, Clara Anduix;DE DOBBELAERE, Christopher Paul;DENIAU, Gildas;DI PRETORO, Giustino;FERNANDES, Philippe;KOLAKOVIC, Ruzica;MERTENS, Nathalie;PATEL, Sejal;PEDERSEN, Betty Lomstein;RAJAN, Gopal;SUN, Dajun~ 33:US ~31:63/305,631 ~32:01/02/2022

2024/06740 ~ Complete ~54:STEAM GENERATOR AND STEAM APPARATUS ~71:NEW WATT (FUJIAN) HIGH-TECH CO. LTD, No. 5, Industrial Avenue, Yaoping Village, Lianfeng Town, Liancheng County, Longyan, Fujian, 366200, People's Republic of China ~72: KE, Zhaomin;ZHAO, Zhongwei~ 33:CN ~31:202210206771.0 ~32:04/03/2022;33:CN ~31:202220456811.2 ~32:04/03/2022;33:CN ~31:202220458265.6 ~32:04/03/2022;33:CN ~31:202220471211.3 ~32:04/03/2022

2024/06725 ~ Complete ~54:IMPROVEMENTS RELATING TO CATALYST CARRIERS FOR TUBULAR REACTORS AND ASSOCIATED METHODS ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: CLARKSON, Jay Simon;CLAXTON, Henry Arthur;COE, Andrew James;MALLAM, Ben Geoffrey~ 33:GB ~31:2203700.6 ~32:17/03/2022

2024/06732 ~ Complete ~54:HEAT-TRANSFER FLUID WITH LOW ELECTRICAL CONDUCTIVITY ~71:Arteco N.V., Metropoolstraat 25, SCHOTEN 2900, BELGIUM, Belgium ~72: CLERICK, Sander~ 33:EP ~31:22164378.6 ~32:25/03/2022

2024/06735 ~ Complete ~54:COORDINATE TRANSFORMATION FOR MINING VEHICLE POSITIONING ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: HYYPPÄ, Samuel;HÄMÄLÄINEN, Jyrki;SIIVONEN, Lauri~ 33:EP ~31:22162701.1 ~32:17/03/2022

2024/06699 ~ Provisional ~54:WIND TURBINE ~71:SHEVEL, Elliot Jack, 45 Empire Road, Parktown, South Africa ~72: SHEVEL, Elliot Jack~

2024/06700 ~ Provisional ~54:A POSITION SENSOR AND FOCUS CONTROL SYSTEM ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: LE ROUX, Willem Gabriel;McGEE, Duncan Sean~

2024/06723 ~ Complete ~54:REACTOR POWER SUPPLY SYSTEM ~71:Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., No.29 Hongcao Road, SHANGHAI 200233, XUHUI DISTRICT, CHINA (P.R.C.), People's Republic of China ~72: CAO, Kemei;HUANG, Gaofeng;LIU, Zhan;MA, Tao;NI, Dan;SUN, Hao;XUE, Shanhu;YANG, Bo;ZHANG, Kun;ZHANG, Mengwei~ 33:CN ~31:202210342916.X ~32:02/04/2022

2024/06730 ~ Complete ~54:TOWER HOIST, PLATFORM AND DAVIT SYSTEM ~71:MAYFIELD, James S., 2138 Riverchase Dr., MURFREESBORO 37128 , TN, USA, United States of America ~72: MAYFIELD, James S.~ 33:US ~31:17/589,331 ~32:31/01/2022

2024/06738 ~ Complete ~54:COMPOSITE CATALYTIC MATERIAL AND FUEL CELL CONTAINING THE SAME ~71:PROMETHEON TECHNOLOGIES BV, Durmen 80, 9240, Zele, Belgium ~72: ZACARIAH AUSTIN HEIM~ 33:GB ~31:2203055.5 ~32:04/03/2022

2024/06743 ~ Complete ~54:A CUSTOMIZABLE DETACHABLE SHOE ~71:Vatsal Soin, 3/24 Vishnupuri, Kanpur, Uttar Pradesh, 208002, India ~72: Vatsal Soin~ 33:IN ~31:202211019418 ~32:31/03/2022

2024/06702 ~ Provisional ~54:ACTIVE BELT TRACKING SYSTEM ~71:TRU-TRAC ROLLERS (PTY) LTD., 55 Adriana Crescent, Gateway Industrial Park, Centurion, Gauteng, 0154, South Africa ~72: HENDRIK STEPHANUS PRETORIUS;SHAUN LEROY BLUMBERG~

2024/06707 ~ Complete ~54:TOAD OIL, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:INSTITUTE OF CHINESE MATERIA MEDICA CHINA ACADEMY OF CHINESE MEDICAL SCIENCES, No. 16, Nanxiao Street, Dongzhimennei, Dongcheng District, Beijing, 100007, People's Republic of China ~72: BIAN, Baolin;DING, Yaohua;LIU, Yuyang;SI, Nan;WANG, Hongjie;WEI, Xiaolu;YANG, Jian;ZHAO, Haiyu;ZHOU, Yanyan~ 33:CN ~31:202311199293.6 ~32:15/09/2023

2024/06710 ~ Complete ~54:EXTENSIBLE BLANKET ~71:VALMET TECHNOLOGIES OY, Keilasatama 5, Espoo, 02150, Finland ~72: JANI TURUNEN~ 33:FI ~31:20236016 ~32:11/09/2023

2024/06718 ~ Complete ~54:SALTS OF A DIHYDROOROTATE DEHYDROGENASE (DHOD) INHIBITOR ~71:KIORA PHARMACEUTICALS GMBH, Reisnerstrasse 34/1, Austria ~72: PLASSER, Lisa;SPERL, Stefan~ 33:US ~31:63/315,316 ~32:01/03/2022

2024/06722 ~ Complete ~54:AN OUTLET ASSEMBLY FOR ARRANGEMENT AT A WALL OPENING IN AN OUTER WALL OF A DISPENSER FOR WEB-SHAPED ABSORBENT MATERIAL ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: BAGHERZADEH, Ali;BENGTSSON, Mattias;KULLMAN, Marcus;KÄLLGREN, Antonio~ 33:EP ~31:PCT/EP2022/058599 ~32:31/03/2022

2024/06728 ~ Complete ~54:ANTI-VEGF ANTIBODY CONSTRUCTS AND RELATED METHODS FOR TREATING VESTIBULAR SCHWANNOMA ASSOCIATED SYMPTOMS ~71:Akouos, Inc., 645 Summer Street, Suite 200, BOSTON 02210, MA, USA, United States of America ~72: MCKENNA, Michael John;NG, Robert;SIMONS, Emmanuel John~ 33:US ~31:63/305,923 ~32:02/02/2022

2024/06734 ~ Complete ~54:STABLE LIQUID CROSSLINKER COMPOSITIONS FOR HEAT-CURABLE INKS ~71:INX International Ink Co., 150 North Martingale Road, Suite 700, SCHAUMBURG 60173, IL, USA, United States of America ~72: BILLSTRAND, Charles Arthur;FOLLOSO, Alexander~

2024/06698 ~ Provisional ~54:YIELDING ROOF ANCHOR ~71:Johannes Jacobus Naude, 12 Arend avenue, South Africa ~72: Frederick L Mugeri;Johannes Jacobus Naude~

2024/06701 ~ Provisional ~54:SCALE ACCURACY MONITORING ~71:TRU-TRAC ROLLERS (PTY) LTD., 55 Adriana Crescent, Gateway Industrial Park, Centurion, Gauteng, 0154, South Africa ~72: SHAUN LEROY BLUMBERG~

2024/06704 ~ Provisional ~54:COMPREHENSIVE ELECTRONIC HEALTH RECORDS PLATFORM WITH ADVANCED DATA ANALYTICS" 3. "INNOVATIVE PATIENT MANAGEMENT AND CLINICAL OPERATIONS SOFTWARE ~71:Simphiwe Makama, 18018 ext 17 Sekgutlong street, South Africa ~72: Simphiwe Makama~ 33:ZA ~31:Q03677 ~32:29/08/2024

2024/06706 ~ Complete ~54:COMPOSITE CEMENTITIOUS MATERIAL CONTAINING MOLTEN IRON DESULFURIZATION SLAG AND PREPARATION METHOD THEREOF ~71:Solid Waste and Chemicals Management Center of the Ministry of Ecology and Environment of China, No.1 Yuhui South Road, Chaoyang District, Beijing, 100029, People's Republic of China;University of Science and Technology Beijing, No.30 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: CHEN Xinying;DU Huihui;GU Mingyuan;HUO Huimin;LI Xin;LI Yunyun;NI Wen;QI Zihan;YANG Guodong~

2024/06712 ~ Complete ~54:UNMANNED AERIAL VEHICLE DEVICE FOR REMOTE SENSING SETTLEMENT MONITORING OF GEOLOGICAL DISASTERS ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Gao Caiyun;Gao Ning~

2024/06705 ~ Complete ~54:METHOD FOR SEPARATING FEMALE GAMETOPHYTES OF PINUS TABULAEFORMIS CARR. IN FREE NUCLEUS STAGE ~71:JINLING INSTITUTE OF TECHNOLOGY, No. 99 Hongjing Avenue, Jiangning District, Nanjing City, Jiangsu Province, 211169, People's Republic of China ~72: LI, Youli;YANG, Yuanyuan;ZHANG, Min;ZHENG, Caixia~

2024/06711 ~ Complete ~54:BEIDOU-BASED AIRBORNE COMMUNICATION TERMINAL ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Gao Caiyun;Gao Ning~

2024/06720 ~ Complete ~54:NEW FORMS OF N-(5-((6,7-DIMETHOXYQUINOLIN-4-YL)OXY)PYRIDIN-2-YL)-1-PROPYL-4-(2,2,2-TRIFLUOROETHOXY)-1H-PYRAZOLE-3-CARBOXAMIDE HYDROCHLORIDE ~71:QURIENT CO., LTD., C-801, 242, Pangyo-ro, Bundang-gu, Republic of Korea ~72: JEON, Borami;KIM, Jaeseung;NAM, Kiyean~

2024/06741 ~ Complete ~54:STEAM GENERATION SYSTEM AND STEAM APPARATUS ~71:NEW WATT (FUJIAN) HIGH-TECH CO. LTD, No. 5, Industrial Avenue, Yaoping, Lianfeng, Liancheng, Longyan, Fujian, 366200, People's Republic of China ~72: KE, Zhaomin;ZHAO, Zhongwei~ 33:CN ~31:202210206771.0 ~32:04/03/2022;33:CN ~31:202220470764.7 ~32:04/03/2022;33:CN ~31:202220471267.9 ~32:04/03/2022;33:CN ~31:202220473642.3 ~32:04/03/2022

2024/06714 ~ Complete ~54:SYSTEM AND METHOD FOR RETROACTIVE AND AUTOMATED VALIDATION OR CORRECTIVE ACTION WITH RESPECT TO ONLINE SENSORS ~71:BUCKMAN LABORATORIES INTERNATIONAL, INC., 1256 North McLean Boulevard, United States of America ~72: CARLI, Ryan;RAO, Narasimha M.~ 33:US ~31:63/323,138 ~32:24/03/2022

2024/06729 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: EL-HABNOUNI, Sarah;NG YI QIN, Mandy;ONG, Lek Keat~ 33:GB ~31:2201197.7 ~32:31/01/2022

2024/06737 ~ Complete ~54:VAPOUR COMPRESSION FOR REGENERATION OF A CAPTURE MEDIUM RICH IN A CAPTURED TARGET GAS ~71:COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, Clunies Ross St, Acton, Australian Capital Territory, 2601, Australia ~72: ALI KIANI;KANGKANG LI;PAUL FERON~ 33:AU ~31:2022900421 ~32:23/02/2022

2024/06742 ~ Complete ~54:STEAM GENERATION CONTROL METHOD ~71:NEW WATT (FUJIAN) HIGH-TECH CO. LTD, No. 5, Industrial Avenue, Yaoping, Lianfeng Town, Liancheng County, Longyan, Fujian, 366200, People's Republic of China ~72: KE, Zhaomin;ZHAO, Zhongwei~ 33:CN ~31:202210206772.5 ~32:04/03/2022;33:CN ~31:202210207081.7 ~32:04/03/2022;33:CN ~31:202210207082.1 ~32:04/03/2022

2024/06721 ~ Complete ~54:PACKAGING MATERIAL AND PRODUCTION METHOD THEREOF ~71:DURAN DOĞAN BASIM VE AMBALAJ SANAYİ A.Ş., Mustafa İnan Cd. No:41, 34555 Arnavutköy/İstanbul, Turkey ~72: ACEMYAN, Dikran;ACEMYAN, Dikran Mihran;KARABOSYAN, Levon;ÇAM AKDENİZ, Neslihan~

2024/06726 ~ Complete ~54:VIRAL VECTOR GENOME ENCODING AN INSULIN FUSION PROTEIN ~71:Scout Bio, Inc., 100 N. 18th Street, Suite 300, PHILADELPHIA 19103, PA, USA, United States of America;The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: BUSFIELD, Samantha;HINDERER, Christian;HORIUCHI, Makoto;WILSON, Matthew J.~ 33:US ~31:63/315,252 ~32:01/03/2022

2024/06733 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ENHANCING CORN TRAITS AND YIELD USING GENOME EDITING ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: BEACH, Steven;MANJUNATH, Sivalinganna;RYMARQUIS, Linda;SLEWINSKI, Thomas L.;WU, Xiaoyun~ 33:US ~31:63/324,985 ~32:29/03/2022

2024/06736 ~ Complete ~54:CASCADED NUCLEIC ACID PROTOCOLS FOR ULTRA-SPECIFIC MOLECULAR DETECTION, TRANSDUCTION, AND AMPLIFICATION ~71:DUKE UNIVERSITY, 2812 Erwin Rd, Ste 406, Durham, North Carolina, 27705, United States of America ~72: JOHN H REIF;XIN SONG~ 33:US ~31:63/315,635 ~32:02/03/2022;33:US ~31:18/116,138 ~32:01/03/2023

2024/06703 ~ Provisional ~54:A TOILET SEAT COVER ~71:Loubser; Nicholas Everhardus, 91 Sleigh Street, Country Club, South Africa ~72: Loubser; Nicholas Everhardus~

2024/06708 ~ Complete ~54:A CONSTANT TEMPERATURE DEVICE AND SYSTEM FOR PHARMACEUTICAL WAREHOUSE STORAGE ~71:Affiliated Hospital of Nantong University, No. 20 Xisi Road, Chongchuan District, Nantong City, Jiangsu Province, 226001, People's Republic of China ~72: QinWang~

2024/06709 ~ Complete ~54:RESILIENT LINK FOR CONVEYOR CHAIN ~71:JOY GLOBAL UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72: HANNOLD, Nathan M.;HOOVER, Joseph D.~ 33:US ~31:18/462,906 ~32:07/09/2023

2024/06717 ~ Complete ~54:HYBRID MUSHROOM STRAIN B19414 AND METHODS AND USES THEREFOR ~71:SYLVAN AMERICA, INC., 198 Nolte Drive, Kittanning, United States of America;SYLVAN INC., 198 Nolte Dr. Kittanning, United States of America ~72: AMINI, Aniça;DELBECQUE, Sylvie;KESSLER, Michael;LOFTUS, Mark;SCHULTZ, Michelle;SCHULTZ, Wes;WACH, Mark~ 33:US ~31:63/322,793 ~32:23/03/2022

2024/06727 ~ Complete ~54:MEDIUM- OR MACRO-CYCLIC BENZYL-SUBSTITUTED HETEROCYCLE DERIVATIVES AND RELATED USES ~71:Centessa Pharmaceuticals (UK) Limited, 1 Ashley Road, 3rd Floor, ALTRINCHAM WA 14 2DT, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: GIBSON, Karl;HUMPHRIES, Paul;LEFKER, Bruce;OTT, Gregory R.;SPENDIFF, Matthew~ 33:US ~31:63/315,438 ~32:01/03/2022;33:US ~31:63/439,477 ~32:17/01/2023

2024/06739 ~ Complete ~54:AGRICULTURAL FENCING ~71:WIREMAN PTY LIMITED, 102/20 ALFRED STREET MILSONS POINT, Australia ~72: LOWREY, Ian~ 33:AU ~31:2022901679 ~32:20/06/2022;33:AU ~31:2022902673 ~32:15/09/2022;33:AU ~31:2022902874 ~32:04/10/2022;33:AU ~31:2022903852 ~32:15/12/2022;33:AU ~31:2023900214 ~32:31/01/2023

2024/06762 ~ Complete ~54:CONTINUOUS IDENTITY ~71:WWW.TRUSTSCIENCE.COM INC, 10130 103 ST NW Suite 1100, Canada ~72: MARTIN LOEFFLER~ 33:US ~31:18/460,038 ~32:01/09/2023

- APPLIED ON 2024/09/02 -

2024/06757 ~ Complete ~54:LOW-COST STRUCTURE FOR PURIFYING AND CONTAINING HIGH CLARITY WATER THAT IS USED FOR DIRECT CONTACT RECREATIONAL PURPOSES ~71:CRYSTAL LAGOONS TECHNOLOGIES, INC., 1395 Brickell Avenue, Suite 800,, Miami, Florida, 33131, United States of America ~72: FERNANDO FISCHMANN~ 33:US ~31:63/306,826 ~32:04/02/2022;33:US ~31:17/871,830 ~32:22/07/2022

2024/06745 ~ Complete ~54:LOW VISCOSITY HYDROXYPROPYL METHYLCELLULOSE AND PREPARATION METHOD THEREOF ~71:SHANDONG GUANGDA SAILU NEW MATERIALS TECHNOLOGY CO., LTD., No. 18, Xuchang Road, Dongping Economic Development Zone, Tai'an, Shandong, 271500, People's Republic of China ~72: LI, Peilin;MA, Decai;WANG, Gongxin~ 33:CN ~31:202410524582.7 ~32:29/04/2024

2024/06747 ~ Complete ~54:DETECTION DEVICE FOR SIMULATING DRIVING SUITABILITY OF DRIVER ~71:Inner Mongolia Agricultural University, No. 306, Zhaowuda Road, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010018, People's Republic of China ~72: GAO Mingxing;JIANG Zhengfa;LI Danlan;LI Hangtian;LIANG Yin;LYU Zhen;WANG Haixiao;XIE Songfang;ZHANG Guiman;ZHAO Ting~

2024/06750 ~ Complete ~54:A HEAD FIXATION DEVICE FOR SHEEP USED IN PRODUCTION ~71:Yue Ren, No. 72, Duodi Road, Chengguan District, Lhasa City, Xizang Autonomous Region, 850000, People's Republic of China ~72: Bin Shi;Mengjun Liu;Yue Ren~

2024/06755 ~ Complete ~54:OPERATIONAL THREAT DETECTION SYSTEM AND METHOD ~71:Wi-Tronix, LLC, 631 E. Boughton Road, #240, BOLINGBROOK 60440, IL, USA, United States of America ~72: BASUEL, Patricia;CHAWLA, Ritu;HARRIS, Randel L.;JORDAN, Lawrence B.~ 33:US ~31:63/316,343 ~32:03/03/2022;33:US ~31:18/117,260 ~32:03/03/2023

2024/06749 ~ Complete ~54:A FEED MIXING DEVICE FOR SHEEP FARMING ~71:Yue Ren, No. 72, Duodi Road, Chengguan District, Lhasa City, Xizang Autonomous Region, 850000, People's Republic of China ~72: Bin Shi;Yue Ren;Zhaxi Yangzong~

2024/06746 ~ Complete ~54:DEVICE FOR SMOKELESS MOXIBUSTION ~71:Shanxi Medical University, No. 56, Xinjian South Road, Taiyuan City, Shanxi Province, 030607, People's Republic of China ~72: CHEN Yu;GUO Lina;HUANG Xinru;HUANG Yan;LI Yunlan;LIU Jiabei;LIU Weiran;MU Rui;NIU Qi;PAN Yuning;SONG Yirui;TONG Ling;WU Jiayi;XIE Xiaoxia;YUAN Yiting~

2024/06754 ~ Complete ~54:METAL INNER CORE, PLACEHOLDER AND PREPARATION METHOD FOR HIP JOINT BONE CEMENT PLACEHOLDER ~71:THE THIRD AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL

UNIVERSITY (GUANGZHOU INTENSIVE CARE CENTER FOR PREGNANT AND PREGNANT WOMEN, GUANGZHOU ROUJI HOSPITAL), 63 Duobao Road, Guangzhou, Guangdong, 510000, People's Republic of China ~72: LI, Mei Lin;LI, Yuan Hui;ZENG, Mian Dong~ 33:CN ~31:202410595090.7 ~32:14/05/2024

2024/06763 ~ Provisional ~54:EPIGUARD: BIOSENSOR SMARTWATCH THAT DETECTS SEIZURES FOR EPILEPSY WITH INTEGRATED SIM CARD FOR NETWORK CONNECTIVITY ~71:Ketello Pele Anatomy (Pty) Ltd, 3315 Section K, South Africa ~72: Ketello Pele Anatomy (Pty)Ltd~ 33:ZA ~31:Not applicable ~32:30/08/2024

2024/06748 ~ Complete ~54:THREE-DIMENSIONAL RECONSTRUCTION METHOD FOR PROTECTING ANCIENT BUILDINGS USING TIME SERIES INSAR AND UNMANNED AERIAL VEHICLE REMOTE SENSING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: SUN, Yafei;WANG, Long;WANG, Yuying;YANG, Kai;YANG, Kaijie;ZHANG, Juanjuan;ZHANG, Yuyi;ZHANG, Zhimin~

2024/06760 ~ Complete ~54:INJECTABLE DEPOT FORMULATION COMPRISING CARIPRAZINE FREE BASE PARTICLES ~71:ANXO PHARMACEUTICAL CO., LTD., 8F-3 No. 206, Sec. 2, Nanking E. Rd., Taipei City, Taiwan 10489, People's Republic of China ~72: CHI-HENG JIAN;CHIA-YU SU;CHUN-WEI HSU;HUA-JING JHAN;I-HSIANG LIU;KUEI-HUA CHANG;TSE-HSIEN CHEN~ 33:US ~31:63/320,696 ~32:17/03/2022

2024/06753 ~ Complete ~54:BIG DATA-BASED REAL-TIME ANALYSIS SYSTEM ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No.88, Fangxing Road, Yuhua Distrit, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: TIAN, Dongge~

2024/06756 ~ Complete ~54:CANCER VACCINES AND METHODS OF USE THEREOF ~71:BriaCell Therapeutics Corp., 2929 Arch Street, 3rd Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: LACHER, Markus Daniel;LOPEZ-LAGO, Miguel;WILLIAMS, William V.~ 33:US ~31:63/316,251 ~32:03/03/2022;33:US ~31:63/415,475 ~32:12/10/2022

2024/06761 ~ Complete ~54:USE OF CHITOSAN-PHYTATE POLYMER IN OENOLOGY ~71:ESSECO S.R.L., Via San Cassiano 99, 28069, Trecate (Novara), Italy ~72: GIANNI TRIOLI;MARCO CESARE MANFREDINI~ 33:IT ~31:102022000003848 ~32:02/03/2022

2024/06752 ~ Complete ~54:NON-CONTACT MUD PUMP PROTECTION DEVICE FOR SHIELD TUNNELING MACHINE, AND USE METHOD AND APPLICATION THEREOF ~71:CHINA RAILWAY 14TH BUREAU GROUP EQUIPMENT CO., LTD, No. 66, Branch Road, Sanjiashagang District, Tongzhou Bay Jianghai Joint Development Demonstration Zone, Nantong City, People's Republic of China ~72: JI, Weihua;LI, Dongsheng;LI, Jiaying;LI, Xiangqing;LI, Xiaokang;LU, Wenlin;MAO, Mingli;SUN, Quansheng;TANG, Yajun;TAO, Kanghong;WANG, Zhichao;YANG, Lunlei;YANG, Yong;ZHANG, Yinghan~ 33:CN ~31:2023110854074 ~32:28/08/2023

2024/06751 ~ Complete ~54:DOUBLE-STATION LASER WELDING APPARATUS AND WELDING PLATFORM ~71:Shenzhen Zhonghexu Precision Machinery Co., Ltd, 1st and 3rd floors of Building A, No. 96 Nandong Zhentou Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Li Shaodong;Lu Fangna;Qin Dongpeng~ 33:CN ~31:202311128595.4 ~32:04/09/2023

2024/06759 ~ Complete ~54:PROTECTIVE STRUCTURE FOR DEEPLY EXCAVATED CUTTING SLOPE AND CONSTRUCTION METHOD THEREOF ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9,Chunxiu Road, Dongcheng District, Beijing, 100027, People's Republic of China ~72: XIN AN~ 33:CN ~31:202410622414.1 ~32:20/05/2024

2024/06744 ~ Provisional ~54:ROCK BOLT AND WASHER ~71:MSP MINE SUPPORT PRODUCTS (PTY) LTD, 108 Houtkop Rd, South Africa ~72: NISSEN, Christian Engelstoft~

2024/06758 ~ Complete ~54:WASTE INCINERATION ACID GAS PURIFICATION TREATMENT METHOD ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9,Chunxiu Road, Dongcheng District, Beijing, 100027, People's Republic of China ~72: JIAYAN YANG~ 33:CN ~31:202311671981.8 ~32:07/12/2023

- APPLIED ON 2024/09/03 -

2024/06791 ~ Complete ~54:TREATMENT OF GASTRIC CANCER ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: KEEGAN, Alissa;LI, Zhezhen;ZHOU, Di~ 33:US ~31:63/327,666 ~32:05/04/2022;33:US ~31:63/491,969 ~32:24/03/2023

2024/06769 ~ Provisional ~54:METHOD OF AND SYSTEM FOR MANAGING AND CUSTOMISING SETTINGS OF A LOCATION-SHARING APPLICATION ~71:3TRAX (PTY) LTD., 15 East Street, Halfway Gardens, Ext 4, MIDRAND 1685, Gauteng, SOUTH AFRICA, South Africa ~72: AZMANOV, Daniel Robert Rodrigues;AZMANOV, Jeremy;AZMANOV, Luca Michael Rodrigues;AZMANOV, Oren~

2024/06780 ~ Complete ~54:TOPICAL COMPOSITIONS FOR IMPROVED HAIR GROWTH AND/OR REDUCED HAIR FALL ~71:NAIDOO, Devashan, 17 Vanadium Crescent, Copesville, South Africa;PILLAY, Suntheran, 3 Unicorn Place, The Gardens, South Africa ~72: NAIDOO, Devashan;PILLAY, Suntheran~

2024/06783 ~ Complete ~54:COMPOSITION, METHOD AND SYSTEM FOR PREPARING HYBRID NANO FLUID OF DIVERSE NANO MATERIAL ~71:Dr. Satyendra Singh, Professor, Mechanical Engineering Department, B.T.K.I.T Dwarahat, Almora, Uttarakhand - 263653, India;SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, SHINIWALA P.O. SHERPUR, SHESHAMBARA, NEAR HIMIGIRI ZEE UNIVERSITY SHIMLA BY PASS ROAD DEHRADUN, UTTARAKHAND -248197, India;Shivasheesh Kaushik, Assistant Professor, Mechanical Engineering Department, Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand - 248197, India ~72: Dr. Satyendra Singh;Shivasheesh Kaushik~

2024/06766 ~ Provisional ~54:CONTROLLER FOR LOCKING MECHANISM ~71:CICCARELLI, Shawn, 13 Venus Road, Fisher Hill, South Africa;ENGELBREG, Jurie Hendrik Johannes, 3399 Coshwood Close, Amberfield Manor, South Africa ~72: CICCARELLI, Shawn~

2024/06775 ~ Complete ~54:ENVIRONMENT-FRIENDLY ASPHALT PAVEMENT LOSS DETECTION METHOD BASED ON NEURAL NETWORK ~71:CHINA ROAD & BRIDGE CORPORATION, 1008, No. 88, Andingmenwai Street, Dongcheng District, Beijing, 100011, People's Republic of China;HARBIN INSTITUTE OF TECHNOLOGY, No. 92, Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province, 150006, People's Republic of China ~72: BAI Zhihao;CHEN Zining;CHENG Pengjian;LIU Zengxin;PEI Zhongshi;YI Junyan~ 33:CN ~31:2024110273969 ~32:30/07/2024

2024/06765 ~ Provisional ~54:CONTROLLER FOR LOCKING MECHANISM ~71:ETHELE SQD NETWORKS (PTY) LTD, Lower Ground Floor East,, Building 8, Central Park, South Africa ~72: CICCARELLI, Shawn~

2024/06767 ~ Provisional ~54:TRACKING, AI-ENHANCED FASHION MANAGEMENT, AND EMERGENCY IDENTIFICATION SYSTEM ~71:Percy Itumeleng Mmutle, 20856 Extension 10, South Africa ~72: Percy Itumeleng Mmutle~ 33:ZA ~31:N/A ~32:02/09/2024

2024/06772 ~ Complete ~54:METHOD FOR INDUCING COLORING OF RED MANGIFERA INDICA BY UV-A/WHITE LIGHT ~71:Hainan University, No. 58, Renmin Avenue, Meilan District, Haikou City, Hainan Province,

People's Republic of China ~72: Chengkun YANG;Feili LI;Kaibing ZHOU;Minjie QIAN;Wencan ZHU;Xiaowen WANG;Zhongrui WENG~ 33:CN ~31:202411053448.X ~32:02/08/2024

2024/06776 ~ Complete ~54:INTELLIGENT POWER CONSTRUCTION SAFETY RISK ASSESSMENT METHOD AND SYSTEM BASED ON MULTI-SOURCE DATA FUSION ~71:Great Wall Electric Co., Ltd, No. 88 Yangxing South Street, Taiyuan Stainless Steel Industrial Park, Taiyuan City, Shanxi Province, People's Republic of China;Taiyuan University of Science and Technology, No. 66 Waliu Road, Wanbailin District, Taiyuan City, Shanxi Province, People's Republic of China ~72: CHEN Guanghua;FU Wenlong;HE Junqiang;LI Xiaosong;SONG Yanhui;ZHANG Zhaokun~

2024/06789 ~ Complete ~54:COMPOSITIONS INCLUDING ENDOPHYTES FOR IMPROVING PLANT NUTRITION, GROWTH, AND PERFORMANCE AND METHODS OF USING THE SAME ~71:Intrinsyx Bio Inc., 319 N. Bernardo Ave., MOUNTAIN VIEW 94043, CA, USA, United States of America;University of Washington, 4545 Roosevelt Way NE, Suite 400, SEATTLE 98105, WA, USA, United States of America ~72: BAKER, Douglas;DOTY, Sharon L.;FREEMAN, John L. III;GRECH, Nigel;HAYWOOD, John~ 33:US ~31:63/318,549 ~32:10/03/2022

2024/06764 ~ Provisional ~54:INNOVATIVE JUICE PROCESSING METHOD UTILIZING MULTI-STAGE FILTRATION TO PRODUCE CONCENTRATE ~71:TIBEPCOR (PTY) LTD, 6 WALDER STREET, South Africa ~72: FOURIE, PIERRE WILLEM~

2024/06771 ~ Complete ~54:SPORE ENZYME AND SPORE ENZYME SERIES FERTILIZER, AND APPLICATIONS THEREOF IN AGRICULTURE ~71:BEIJING ZHONGNONG RUNTIAN FERTILIZER CO., LTD. YUCHENG BRANCH, ROOM 107-109, NORTH SIDE OF THE SOUTH GATE OF ZHONGREN GROUP, THE SOUTH END OF RENMIN ROAD, People's Republic of China ~72: LI, Haiyan;LIU, Shujin;QI, Aiqin;WEN, Yanchen~

2024/06773 ~ Complete ~54:MECHANICALLY DIRECT-SEEDING RICE BUNDLING PELLETED SEEDS AND PREPARATION METHOD THEREOF ~71:Rice Research Institute, Heilongjiang Academy of Agricultural Sciences, Jianguo Town, Dongfeng District, Jiamusi City, Heilongjiang Province, 150000, People's Republic of China ~72: BIAN, Jingyang;CAI, Yongsheng;CHEN, Shuqiang;DU, Xiaodong;DU, Yongsheng;FENG, Peng;HUANG, Xiaoqun;NA, Yongguang;XU, Lingqi;YANG, Limin;ZHANG, Zhiqiang;ZHAO, Haixin~

2024/06774 ~ Complete ~54:AN OPTICAL LENS PROCESSING CLAMPING DEVICE ~71:Nanyang Haobo Optoelectronics Technology Co., Ltd, 4th Floor North, No. 5 Huanggang Industrial Park, Nanyang City, Henan Province, 473000, People's Republic of China ~72: Ding Dan;Jiang Ting~

2024/06777 ~ Complete ~54:GREEN CONTROL METHOD FOR POTATO DISEASES AND INSECT PESTS ~71:High Latitude Crops Institute to Shanxi Academy Shanxi Agricultural University, No.18 Yingbin East Road, Datong City, Shanxi Province, 037000, People's Republic of China ~72: BAI Xiaodong;DU Peibing;FAN Xiangbin;MAO Xianghong;QI Haiying;YANG Chun;ZHU Zhihui~ 33:CN ~31:2024108837624 ~32:03/07/2024

2024/06787 ~ Complete ~54:ANTI-BMP9 ANTIBODIES AND METHODS OF USE THEREOF ~71:PFIZER INC., 66 Hudson Boulevard East, New York, United States of America;THE BRIGHAM AND WOMEN'S HOSPITAL, INC, 75 Francis Street, United States of America;THE GENERAL HOSPITAL CORPORATION, 55 Fruit Street, Boston, Massachusetts 02114, United States of America ~72: APGAR, James, Reasoner;BENARD, Susan Adam;BERASI, Stephen Peter;HUARD, Christine;KOVALENKO, Oleg Victorovich;MOSYAK, Lidia;TANG, Xianchun;TRONCONE, Luca;TUMELTY, Kathleen Elisabeth;YU, Paul B.;ZHONG, Ying~ 33:US ~31:63/347,543 ~32:31/05/2022;33:US ~31:63/375,781 ~32:15/09/2022;33:US ~31:63/499,808 ~32:03/05/2023

2024/06782 ~ Complete ~54:NOVEL ULTRASONIC MEDICINE DELIVERY SYSTEM BASED ON CELLULOSE NANOCRYSTALS, PREPARATION METHOD AND APPLICATION THEREOF ~71:Zhengzhou University, No. 40, Daxue North Road, Erqi District, Zhengzhou City, Henan Province, 450000, People's Republic of China ~72: Cao Qingfeng;Cheng Yuanyuan;Duan Shaobo;Guo Yizhen;Li Jianbo;Li Na;Lin Weiwei;Peng Youmei;Shi Jinglu;Si Jiahao;Wang Siwen;Yang Min;Yang Yang;Zhang Zhuangli~

2024/06785 ~ Complete ~54:ERIODICTYOL COMPOSITIONS AND METHODS ~71:CAS PROPERTIES, LLC, 895 Dove Street, 3rd Floor, Newport Beach, United States of America ~72: HWANG, Paul;ROUFS, James;THEOHARIDES, Theoharis C.~ 33:US ~31:63/316,685 ~32:04/03/2022

2024/06786 ~ Complete ~54:EXTENDED, HIGH DOSE VEGF ANTAGONIST REGIMENS FOR TREATMENT OF ANGIOGENIC EYE DISORDERS ~71:BAYER HEALTHCARE LLC, 100 Bayer Boulevard, Whippany, United States of America;REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ASMUS, Friedrich;BERLINER, Alyson J;CHU, Karen;DA SILVA LEAL, Sergio Casimiro;EISSING, Thomas;RITTENHOUSE, Kay D.;VITTI, Robert, L.~ 33:US ~31:63/319,869 ~32:15/03/2022;33:US ~31:63/404,512 ~32:07/09/2022;33:US ~31:63/404,893 ~32:08/09/2022;33:US ~31:63/411,594 ~32:29/09/2022;33:US ~31:63/412,165 ~32:30/09/2022;33:US ~31:63/421,298 ~32:01/11/2022

2024/06790 ~ Complete ~54:MEMBRANE WITH A REDUCTION IN A DIMENSIONAL PROPERTY ~71:Evove Ltd, Hewlett Swanson Centurion House, 129 Deansgate, MANCHESTER M3 3WR, UNITED KINGDOM, United Kingdom ~72: JOSHI, Omkar Shrikant;PHILLIPS, Tristan~ 33:GB ~31:2203080.3 ~32:04/03/2022

2024/06778 ~ Complete ~54:INTELLIGENT CULTIVATION METHOD AND SYSTEM FOR SWEET CHERRIES ~71:Shandong Institute of Pomology, No. 64 Longtan Road, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: FU Quanbin;FU Quanjuan;HOU Sen;JIANG Xia;WEI Guoqin;ZHU Shengnan~ 33:CN ~31:2024108832777 ~32:03/07/2024

2024/06793 ~ Complete ~54:FUNGICIDE COMPOSITION ~71:UPL Corporation Limited, 6th Floor, Suite 157B, Harbor Front Building, President John Kennedy Street, PORT LOUIS, MAURITIUS, Mauritius;UPL Europe Ltd, The Centre, 1st Floor, Birchwood Park, WARRINGTON WA3 6YN, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: FERRIER, Frederic;PILLOT, Marc;PIROTTE, Alan~ 33:EP ~31:22305124.4 ~32:04/02/2022

2024/06768 ~ Provisional ~54:URINE BUCKET SOLUTIONS ~71:Rose Moleboge Ndhundhuma, Leadwood Crescent Street, South Africa ~72: Rose Moleboge Ndhundhuma~

2024/06788 ~ Complete ~54:VAV DIFFUSER CONTROLS ~71:KAIP PTY LIMITED, 2 The Crescent, Kingsgrove, Australia ~72: BADENHORST, Sean Michael Johl;RAE, Robert James;TENISON, Nicholas William~ 33:AU ~31:2022900255 ~32:08/02/2022

2024/06770 ~ Provisional ~54:KHANYA AI ASSISTANT ~71:Letsabisa Regina Shongwe, 67 Deo Fortuno, 90 Nora Avenue, South Africa;Themba Candric Shongwe, 67 Deo Fortuno, 90 Nora Avenue, South Africa ~72: Themba Candric Shongwe~

2024/06779 ~ Complete ~54:METHOD FOR ISOLATION, CULTURE AND INDUCED DIFFERENTIATION OF YAK SKELETAL MUSCLE SATELLITE CELLS ~71:Qinghai university, 251# Ningda Road, Chengbei District, Xining City, Qinghai Province, 810016, People's Republic of China ~72: LI Lingxia;LI Miaoran;LI Zhongduo;LING Xiaodong;LV Jianshu~ 33:CN ~31:2024108176871 ~32:24/06/2024

2024/06781 ~ Complete ~54:CLINICAL DIAGNOSTIC DEVICE FOR GASTROENTEROLOGY ~71:Meng Linghua, No. 168, Kangping Road, Jiaojiang District, Taizhou City, Zhejiang Province, 318000, People's Republic

of China;Meng Xunzhu, No. 168, Kangping Road, Jiaojiang District, Taizhou City, Zhejiang Province, 318000, People's Republic of China ~72: Meng Linghua;Meng Xunzhu~

2024/06784 ~ Complete ~54:CARBON ENGINEERING EMISSION PROCESSING APPARATUS FOR ENGINEERING CONSTRUCTION ~71:ANHUI WATER CONSERVANCY TECHNICAL COLLEGE, No. 18 Hema Road, Hefei City, People's Republic of China ~72: AI, Siping;CHANG, Xiaohui;JIANG, Hong;ZHANG, Simei~

2024/06792 ~ Complete ~54:HUMAN ANTIBODIES AGAINST ACTIVATED PROTEIN C AND USES THEREOF ~71:Coagulant Therapeutics Corporation, Seoul Biohub, 402 Research Bldg., 117-3 Hoegi-ro, DONGDAEMUN-GU 02455, REPUBLIC OF KOREA, Republic of Korea ~72: BAUZON, Maxine;CASTRO FERREIRA, Inês Margarida;ELLINGER, Philipp;FILARSKY, Katharina;HERMISTON, Terry;KENSCH, Oliver;MAHLERT, Christoph;MARTINS DA CUNHA ABECASIS, Bernardo;SCHNEIDER, Douglas M.;SIM, Derek;TEBBE, Jan;WEBER, Ernst~ 33:US ~31:63/316,928 ~32:04/03/2022

2024/06794 ~ Complete ~54:GRAIN DRYER MAIN ENGINE CHASSIS WITH HIGH STRESS SUPPORTING STRUCTURE ~71:ANHUI CHENYU MACHINERY TECHNOLOGY CO, LTD, Yinque Road, Economic and Technological Development Zone, Lu'an City, People's Republic of China ~72: DUAN Xianwu;YANG Jian;ZHU Huangfu~ 33:CN ~31:202210878016.7 ~32:25/07/2022

- APPLIED ON 2024/09/04 -

2024/06796 ~ Provisional ~54:A METHOD FOR ATTACHING SHEETS OF PACKAGING MATERIAL AND AN ARTICLE OF PACKAGING ~71:NIMB, George Frederick, Park Street 18, TZANEEN 0850, Limpopo Province, SOUTH AFRICA, South Africa ~72: NIMB, George Frederick~

2024/06800 ~ Provisional ~54:CHATCANNABIS ~71:Raluca Pauna, 47 Beryl street, South Africa ~72: Raluca Pauna;Thandeka Ruth Kunene~ 33:ZA ~31:1 ~32:04/09/2023

2024/06804 ~ Complete ~54:ROTATING PLATFORM FOR INDOOR SPACE SURVEYING AND MAPPING INSTRUMENT ~71:Yancheng Liuyi Technology Co., Ltd, 925, 9th Floor, South Building, Innovation Building, Big Data Industrial Park, Kecheng Street, Yannan High-tech Zone, Yancheng City, People's Republic of China ~72: PAN, Li~ 33:CN ~31:2024218513078 ~32:01/08/2024

2024/06810 ~ Complete ~54:A COMPACT MOBILE TOY, A CONNECTOR FOR A COMPACT MOBILE TOY AND KIT COMPRISING A COMPACT MOBILE TOY AND A CONNECTOR ~71:DOONA HOLDINGS LTD., FLAT/RM 04 2/F, Westlands Centre, 20 Westlands Road, Hong Kong ~72: MAZAR, Yoav~ 33:IL ~31:305732 ~32:05/09/2023

2024/06813 ~ Complete ~54:RESPIRATORY DISEASE MONITORING WEARABLE APPARATUS ~71:HEALTH CARE ORIGINALS, INC., 260 E. Main St., Ste. 6906 NextCorps, United States of America ~72: DWARIKA, Jared~ 33:US ~31:17/650,958 ~32:14/02/2022

2024/06817 ~ Complete ~54:USE OF DIMPROPYRIDAZ FOR REDUCING VIRAL AND BACTERIAL TRANSMISSION ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BLANCO RUIZ, Cesar;DE CARVALHO GUERRA SMIRMAUL, Patricia;ERLER, Greice;HODGES, Desiree, Margaret;MARCHAL RUBIO, Francisco, Javier;SANZ-GOMEZ, Jorge~ 33:EP ~31:22156235.8 ~32:11/02/2022

2024/06799 ~ Provisional ~54:PROTEIN CONJUGATE AND USES THEREOF ~71:IMMOBAZYME (PTY) LTD, Shop C8, The Woodmill, Vredenburg Road, South Africa ~72: ENSLIN, Nicholas George;HUNTER, Ethan Wade;LOURENS, Darrian Brett;NICHOLAS, Dominic Nathaniel~

2024/06805 ~ Complete ~54:CORONAVIRUS VACCINE ~71:CUREVAC SE, Friedrich-Miescher-Str. 15, Germany ~72: GROSSE, Hans Wolfgang;PETSCH, Benjamin;RAUCH, Susanne~ 33:EP ~31:PCT/EP2020/052775 ~32:04/02/2020;33:EP ~31:PCT/EP2020/059687 ~32:03/04/2020;33:EP ~31:PCT/EP2020/079831 ~32:22/10/2020;33:EP ~31:PCT/EP2020/079831 ~32:22/10/2020;33:EP ~31:PCT/EP2020/079973 ~32:23/10/2020;33:EP ~31:PCT/EP2020/080713 ~32:02/11/2020;33:US ~31:63/112,106 ~32:10/11/2020;33:US ~31:63/113,159 ~32:12/11/2020;33:US ~31:63/119,390 ~32:30/11/2020;33:US ~31:63/129,395 ~32:22/12/2020

2024/06806 ~ Complete ~54:AN ACID MIST REDUCTION DEVICE ~71:PROTHERO, Gareth Clive, 189 Hangklip Road, Pringle Bay, Western Cape, South Africa;VAN DIEMAN, Eric, 74 Landau Street, Morehill, Benoni, Gauteng, South Africa ~72: PROTHERO, Gareth Clive~ 33:ZA ~31:2023/09432 ~32:10/10/2023

2024/06811 ~ Complete ~54:DEEP DESULFURIZATION ADSORBENT AND ITS PREPARATION METHOD AND APPLICATION ~71:BEIJING GUANGCHE DYNAMICS TECHNOLOGY LLC, CG05, 1ST FLOOR, BUILDING 8, NO.1 ZHONGGUANCUN EAST ROAD, HAIDIAN DISTRICT, People's Republic of China;CHINA UNIVERSITY OF PETROLEUM (EAST CHINA), 66 CHANGJIANG WEST ROAD, HUANGDAO DISTRICT, People's Republic of China ~72: BAI, Peng;LIU, Ziyang;XU, Benjing;YAN, Zifeng;ZHENG, Chen~ 33:CN ~31:202410985509X ~32:22/07/2024

2024/06815 ~ Complete ~54:AIR CONTROL VALVE ~71:CRRC QIQIHAR ROLLING STOCK CO., LTD., No.36 Changqian 1st Avenue, People's Republic of China ~72: LI, Hua;LI, Jia;XU,Yi~ 33:CN ~31:202210521953.7 ~32:13/05/2022

2024/06823 ~ Complete ~54:MODULAR VECTOR (MODVEC) SYSTEM: A PLATFORM FOR CONSTRUCTION OF NEXT GENERATION EXPRESSION VECTORS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BELOUSKI, Edward J.;CHEN, Fuyi;MOCK, Marissa~ 33:US ~31:63/317,949 ~32:08/03/2022

2024/06829 ~ Complete ~54:METHODS AND SYSTEMS FOR AUTOMATED NEUROCOGNITIVE TRAINING TO EXTEND RELIEF OF TREATMENT-RESISTANT MENTAL DISORDERS ~71:UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, 1st Floor Gardner Steel Conference Center, 130 Thackeray Avenue, Pittsburgh, Pennsylvania, 15260, United States of America ~72: REBECCA B PRICE~ 33:US ~31:63/316,098 ~32:03/03/2022

2024/06812 ~ Complete ~54:ANTIBODY-DRUG CONJUGATES TARGETING FOLATE RECEPTOR ALPHA AND METHODS OF USE ~71:ZYMEWORKS BC INC., 114 East 4th Avenue, Suite 800, Canada ~72: BARNSCHER, Stuart Daniel;BRANT, Michael G.;BROWMAN, Duncan;CHAN, Peter Wing Yiu;CHUI, Danny;CLAVETTE, Brandon;COLOMBO, Raffaele;DAS, Samir;DAVIES, Rupert H.;GENE, Robert William;HERNANDEZ ROJAS, Andrea;KANG, Sukhbir Singh;LASALLE, Manuel Michel Auguste;LAWN, Samuel Oliver;PETERSEN, Mark Edmund;RICH, James R.;UROSEV, Dunja;YOUNG, Ada G. H.~ 33:US ~31:63/324,003 ~32:25/03/2022;33:US ~31:63/417,250 ~32:18/10/2022;33:US ~31:63/450,607 ~32:07/03/2023

2024/06825 ~ Complete ~54:LIVE MYCOPLASMA GALLISEPTICUM VACCINES ~71:University of Georgia Research Foundation, Inc., 210 South Jackson Street, 110 Terrell Hall, ATHENS 30602, GA, USA, United States of America ~72: FERGUSON-NOEL, Naola M.~ 33:US ~31:63/327,851 ~32:06/04/2022;33:US ~31:63/404,226 ~32:07/09/2022

2024/06821 ~ Complete ~54:A ROCK BOLT INSTALLATION ~71:Sandvik Mining and Construction Australia (Production/Supply) Pty Ltd, Level 5 / 135 Coronation Drive, MILTON 4064, QUEENSLAND, AUSTRALIA, Australia ~72: RATAJ, Mietek;WANG, Jamie;WEAVER, Steven~ 33:EP ~31:22167455.9 ~32:08/04/2022

2024/06822 ~ Complete ~54:MOLTEN GLASS TRANSPORTER, TRANSPORT CUP, ENDCAP, AND METHODS ~71:Owens-Brockway Glass Container Inc., One Michael Owens Way, PERRYSBURG 43551, OH, USA, United States of America ~72: ALEGRIA VEGA, Arturo;GRAFF, Stephen M.;JOHNSTON, Karl;KIRKMAN, Thomas~ 33:US ~31:63/313,981 ~32:25/02/2022

2024/06828 ~ Complete ~54:METHOD OF MONITORING CANCER USING FRAGMENTATION PROFILES ~71:DELFI DIAGNOSTICS, INC., 2809 Boston Street Suite 503 Baltimore, Maryland 21224, United States of America ~72: ALESSANDRO LEAL;JACOB CAREY;KEITH LUMBARD;LAUREL KEEFER;LORENZO RINALDI;NICHOLAS C DRACOPOLI~ 33:US ~31:63/320,906 ~32:17/03/2022

2024/06830 ~ Complete ~54:HIGH-TEMPERATURE POLARIZATION METHOD FOR STRIP-SHAPED OR ROD-SHAPED PIEZOELECTRIC CERAMICS ~71:GUILIN UNIVERSITY OF ELECTRONIC TECHNOLOGY, No. 1, Jinjiling Road, Qixing Zone, Guilin City, People's Republic of China ~72: CHEN JINLONG;GAO CHENG;LIU SHIQI;LUO YI;MO CHOU;WANG YAN;XU HAOTIAN;ZHANG YINGHONG~ 33:CN ~31:202210968739.6 ~32:12/08/2022

2024/06820 ~ Complete ~54:RECOVERY OF ENERGY ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: JENNE, Eric;KOCHENDOERFER, Kiara, Aenne;SHUSTOV, Andrey~ 33:EP ~31:22155975.0 ~32:09/02/2022

2024/06807 ~ Complete ~54:A BATCH CLEANING DEVICE FOR OPTICAL LENS PROCESSING ~71:Nanyang Haobo Optoelectronics Technology Co., Ltd, 4th Floor North, No. 5 Huanggang Industrial Park, Nanyang City, Henan Province, 473000, People's Republic of China ~72: Ding Dan;Jiang Ting~

2024/06809 ~ Complete ~54:ANTI-TAMPER WATER METER ENCLOSURE AND METHOD OF INSTALLING SAME ~71:GOVENDER, Preevin, 18 Whitehall Place, Mount Edgecombe, DURBAN 4302, KZN, SOUTH AFRICA, South Africa ~72: GOVENDER, Preevin~ 33:ZA ~31:2023/08480 ~32:04/09/2023

2024/06798 ~ Provisional ~54:SELF CLEANING SYSTEM FOR SOLAR PANELS ~71:Delano Gabriel, Westbrook estate, Protea drive, Midrand, Gauteng, 1685, South Africa ~72: Delano gabriel~

2024/06814 ~ Complete ~54:METHODS OF TREATING RECURRENT EPITHELIOID SARCOMA WITH BISPECIFIC ANTI-MUC16 X ANTI-CD3 ANTIBODIES ALONE OR IN COMBINATION WITH ANTI-PD-1 ANTIBODIES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: HERMONT BARCELLOS GONCALVES, Priscila~ 33:US ~31:63/320,961 ~32:17/03/2022;33:US ~31:63/350,503 ~32:09/06/2022

2024/06827 ~ Complete ~54:SPLEEN TYROSINE KINASE INHIBITOR, COMPOSITION, AND METHODS OF USE ~71:PURDUE RESEARCH FOUNDATION, 101 Foundry Drive, Suite 2500 West Lafayette, Indiana 47906, United States of America ~72: JOHN MICHAEL HAUSMAN;MADDURI SRINIVASARAO;PHILIP STEWART LOW;SURESH YARLAGADDA~ 33:US ~31:63/319,486 ~32:14/03/2022;33:US ~31:63/398,599 ~32:17/08/2022

2024/06831 ~ Complete ~54:HIGH-VOLTAGE LOAD SWITCH WITH MAGNETIC BLOWOUT COMPOSITE ARC EXTINGUISHING CAPABILITY ~71:Beijing Qingchang Power Technology Co., Ltd, No.1111, 10th Floor, Building C, No. 9 Shangdi Third Street, Haidian District, Beijing, People's Republic of China ~72: Huanfen Zhang;Huatian Wang;Jiayao Wang;Jingsheng Fan~ 33:CN ~31:2023110765047 ~32:24/08/2023

2024/06797 ~ Provisional ~54:ELECTRICAL CONNECTOR ~71:MARKS, Donovan, Alexander, 17 HALF MOON LANE, IRENE, PRETORIA, SOUTH AFRICA, South Africa;ORMEROD, Stuart, Peter, 10 LUNAR LANE,

SOLHEIM, GERMISTON, SOUTH AFRICA, South Africa ~72: MARKS, Donovan, Alexander; ORMEROD, Stuart, Peter~

2024/06795 ~ Provisional ~54:BOLT SEAL ASSEMBLY ~71:VYND B.V, Woudseweg 32,, Netherlands ~72: SMITS, Pieter~

2024/06816 ~ Complete ~54:NOVEL THERAPEUTIC USES OF GARDNERELLA ENDOLYSINS ~71:BIONTECH SE, AN DER GOLDGRUBE 12, 55131 MAINZ, GERMANY, Germany ~72: BERDAGUER TARODO, Rocio;CORSINI, Lorenzo;KIENINGER, Ann-Katrin;OBERBAUER, Vera;PODPERA TISAKOVA, Lenka;SCHWEBS, Timo~ 33:EP ~31:22156413.1 ~32:11/02/2022

2024/06819 ~ Complete ~54:LOGGING AND REPORTING MULTIPLE RANDOM ACCESS PROCEDURE INFORMATION WHILE PERFORMING DUAL ACTIVE PROTOCOL STACK HANDOVER ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BELLESCHI, Marco;PARICHEHREHTEROUJENI, Ali;RAMACHANDRA, Pradeepa~ 33:US ~31:63/309,481 ~32:11/02/2022

2024/06824 ~ Complete ~54:HANDHELD ELECTROPORATION DEVICES, AND RELATED SYSTEMS AND METHODS ~71:Inovio Pharmaceuticals, Inc., 660 W. Germantown Pike, Suite 110, PLYMOUTH MEETING 19462, PA, USA, United States of America ~72: BOOTH, Andrew;MATHUR, Charu;MCCOY, Jay;STADELMANN, Beat~ 33:US ~31:63/314,282 ~32:25/02/2022

2024/06826 ~ Complete ~54:CARBONATION MACHINE WITH INTEGRATED WATER TREATMENT AND DETACHABLE WATER RESERVOIR ~71:SODASTREAM INDUSTRIES LTD., 1 Atir Yeda Street, Kfar Saba, 4464301, Israel ~72: ALLAN RING;ALON WAISMAN;AVI COHEN;VLADISLAV GUR~ 33:US ~31:17/693,410 ~32:13/03/2022

2024/06832 ~ Provisional ~54:FLEXCHANGE BUILDING BRICK ~71:THABO EZEKIEL LEONARD MOKOENA, 3379 BLOCK B MABOPANE, South Africa ~72: THABO EZEKIEL LEONARD MOKOENA~

2024/06801 ~ Complete ~54:SERVICE MANAGEMENT SYSTEM FOR ENGINEERING TECHNICAL CONSULTATION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: SHI, Yue~

2024/06808 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS OF THERAPEUTICALLY ACTIVE COMPOUNDS ~71:LES LABORATOIRES SERVIER, 35 rue de Verdun, Suresnes Cedex, 92284, France ~72: CHONG-HUI GU~ 33:US ~31:61/953,487 ~32:14/03/2014;33:US ~31:62/081,542 ~32:18/11/2014

2024/06818 ~ Complete ~54:THERAPEUTIC INHIBITION OF LPA EXPRESSION ~71:SILENCE THERAPEUTICS GMBH, ROBERT-RÖSSLE-STRASSE 10, 13125 BERLIN, GERMANY, Germany ~72: CAMPION, Giles;MACHACEK, Matthias;RAMBARAN, Curtis;RIDER, David;SCHULTHESS, Pascal;SCRIMGEOUR, Alison;SWERDLOW, Daniel;WADE, James;WILSON, Rosamund~ 33:US ~31:63/308,167 ~32:09/02/2022;33:US ~31:63/320,381 ~32:16/03/2022;33:US ~31:63/395,246 ~32:04/08/2022;33:US ~31:63/420,195 ~32:28/10/2022

2024/06802 ~ Complete ~54:A PIANO SCORE STAND WITH AUTOMATIC PAGE FLIPPING ~71:MIANYANG TEACHERS' COLLEGE, No. 166 Mianxing West Road, High tech Zone, Mianyang City, Sichuan Province, 621000, People's Republic of China ~72: Liu Zibo;Wang Jing~

2024/06803 ~ Complete ~54:APPLICATION OF NINE STEAMING NINE SUN-DRYING POLYGONUM MULTIFLORUM THUNB. EXTRACT IN PREPARING MEDICINE FOR TREATING KIDNEY DEFICIENCY

~71:Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, No. 16, Nanxiao Street, Inner Dongzhimen, Dongcheng District, Beijing, People's Republic of China ~72: AO Xuan;LI Li;LIU Taotao;WANG Lan;XU Jing;YIN Xiaojie;YU Miao;ZUO Jingyu~ 33:CN ~31:2024109816964 ~32:22/07/2024

- APPLIED ON 2024/09/05 -

2024/06854 ~ Complete ~54:METHOD FOR REMOVING CHLORINE IN ZINC HYDROMETALLURGY ~71:KOREA ZINC CO., LTD., 542 Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: HEON SIK CHOI;MIN CHEOL KIM~ 33:KR ~31:10-2022-0145379 ~32:03/11/2022

2024/06859 ~ Complete ~54:CAMPTOTHECIN CONJUGATES ~71:SEAGEN INC., 21823 30th Drive S.E., Bothell, Washington, 98021, United States of America ~72: NICOLE DUNCAN;PHILIP MOQUIST;RYAN LYSKI;SCOTT JEFFREY~ 33:US ~31:63/321,105 ~32:17/03/2022;33:US ~31:63/407,609 ~32:16/09/2022

2024/06862 ~ Complete ~54:CRYSTALS OF VITAMIN D DERIVATIVE OR CRYSTALS OF SOLVATE THEREOF ~71:Teijin Pharma Limited, 2-1, Kasumigaseki 3-chome, CHIYODA-KU 100-0013, TOKYO, JAPAN, Japan ~72: SAITOH, Hiroshi;TAKAHASHI, Saori~ 33:JP ~31:2022-038186 ~32:11/03/2022

2024/06869 ~ Complete ~54:EMERGENCY VALVE HAVING EMERGENCY ACCELERATED RELEASE FUNCTION ~71:CRRC QIQIHAR ROLLING STOCK CO., LTD., No.36 Changqian 1st Avenue, People's Republic of China ~72: HE, Lidong;WANG, Mingdong;XU,Yi~ 33:CN ~31:202210521924.0 ~32:13/05/2022

2024/06835 ~ Provisional ~54:A CARRIER ASSEMBLY ~71:OSMOND, John, William, 214 FARMSTEAD CRESCENT, CROSSWAYS FARM VILLAGE, SUNNYSIDE, THORNHILL, 6375, SOUTH AFRICA, South Africa ~72: OSMOND, John, William~

2024/06838 ~ Provisional ~54:SMARTPHONE WATCH WITH SIM CARD AND WIRELESS EARPHONE BUILT-IN GENERATIVE ARTIFICIAL INTELLIGENCE FEATURES- TRANSLATE PHONE CALLS IN REAL-TIME ~71:AHMED WASEEF SAIB, 24 park avenue desainagar, South Africa ~72: AHMED WASEEF SAIB~

2024/06844 ~ Complete ~54:METHOD FOR COLOR FIXATION AND PRESERVATION OF SWEET POTATOES ~71:Huixue Zhao, No. 191, District 1, Xuzhuang Village, Shuangtang Township, Xiong County, Baoding, Hebei, People's Republic of China ~72: Huixue Zhao~

2024/06855 ~ Complete ~54:METHOD FOR RECOVERING IRON AND VALUABLE METALS FROM ELECTRIC ARC FURNACE DUST ~71:KOREA ZINC CO., LTD., 542 Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: HEON SIK CHOI;SUNG MOON KANG~ 33:KR ~31:10-2023-0002979 ~32:09/01/2023

2024/06858 ~ Complete ~54:PRIMER DELIVERY SYSTEMS AND METHODS ~71:DYNO NOBEL ASIA PACIFIC PTY LIMITED, Level 8, 28 Freshwater Place, Southbank, Victoria, 3006, Australia ~72: PAUL TERRY~ 33:AU ~31:2022900487 ~32:01/03/2022

2024/06868 ~ Complete ~54:TREATMENT WITH AN ANTIBODY THAT BINDS EGFR AND CMET. ~71:MERUS N.V., Uppsalalaan 17, 3e en 4e verdieping, Netherlands ~72: BARASA, Benjamin Awori;LAMMERTS VAN BUEREN, Jeroen Jilles;LAUS, Gianluca~ 33:NL ~31:2031178 ~32:07/03/2022;33:NL ~31:2032395 ~32:06/07/2022;33:NL ~31:2033440 ~32:02/11/2022

2024/06853 ~ Complete ~54:METHOD FOR PROCESSING BY-PRODUCT OF HYDROMETALLURGICAL PROCESS OF ZINC WITH REDUCED CARBON EMISSION ~71:KOREA ZINC CO., LTD., 542 Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: HEON SIK CHOI;HYUN LEE~ 33:KR ~31:10-2022-0159206 ~32:24/11/2022
2024/06864 ~ Complete ~54:A METHOD AND SYSTEM FOR EXTRACTION OF IRON VALUES FROM RED MUD ~71:EESAVYASA TECHNOLOGIES PVT LTD, NO. 79, SVCIE, PHASE- III, BALANAGAR, HYDERABAD-500037, TELANGANA STATE, INDIA, HYDERABAD 500037, INDIA, India ~72: BANDA, Ravisankar;DAMULURI, Chakravarthy;KUNAM, Sasidhar, Reddy;MAMIDYALA, Sreeman, Kumar~ 33:IN ~31:202241006268 ~32:05/02/2022

2024/06846 ~ Complete ~54:ASSEMBLY OF A RECEIVER WITH A BARREL ~71:CESKA ZBROJOVKA A.S., Svatopluka Cecha 1283, Czech Republic ~72: MALINA, Jaroslav~ 33:CZ ~31:PV 2022-208 ~32:19/05/2022

2024/06852 ~ Complete ~54:METHOD FOR PRODUCING HIGH QUALITY REFINED IRON OXIDE FROM IRON OXIDE WHICH IS BY-PRODUCT OF ZINC SMELTING PROCESS ~71:KOREA ZINC CO., LTD., 542, Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: HEON SIK CHOI;SUNG MOON KANG~ 33:KR ~31:10-2022-0132523 ~32:14/10/2022

2024/06870 ~ Provisional ~54:TITANIUM STERNAL IMPLANT ~71:Dr Riaan Nel, 35 Nassau Crescent, South Africa ~72: Dr Riaan Nel;Prof Jacques Janson~

2024/06856 ~ Complete ~54:DEVICE FOR MOVING AN UPPER MOLAR ~71:JAN DE BAETS, 15 Chemin de la Loutre, 1290, Versoix, Switzerland ~72: JAN DE BAETS~ 33:CH ~31:CH000236/2022 ~32:08/03/2022;33:FR ~31:FR2201976 ~32:08/03/2022

2024/06861 ~ Complete ~54:FORMULATIONS COMPRISING ACID-NEUTRALIZING POLYMER FOR ORAL ADMINISTRATION OF ACTIVE AGENTS ~71:ENTERA BIO LTD., Jerusalem Bio Park, Hadassah Ein-Kerem, P.O. Box 12117, Israel ~72: BURSHTEIN, Gregory;GALITZER, Hillel;ITIN, Constantin;SCHWARTZ, Phillip M.~ 33:US ~31:63/313,363 ~32:24/02/2022

2024/06867 ~ Complete ~54:EMERGENCY VALVE ~71:CRRC QIQIHAR ROLLING STOCK CO., LTD., No.36, Changqian 1st Avenue, Tiefeng District Qiqihar, People's Republic of China ~72: HAN, Xiaobin;WANG, Mingdong;XU,Yi~ 33:CN ~31:202210521016.1 ~32:13/05/2022

2024/06834 ~ Provisional ~54:BLOCKCHAIN-BASED BARCODE VERIFICATION SYSTEM USING NON-FUNGIBLE TOKENS (NFTS) ~71:Ashreah Naicker, 15 Ironwood avenue, South Africa ~72: Santhesh Naicker~

2024/06840 ~ Complete ~54:INFORMATION PRESENTATION DEVICE, INFORMATION PRESENTATION SYSTEM, INFORMATION PRESENTATION METHOD, AND PROGRAM ~71:YAZAKI CORPORATION, 8-15, Konan 1-Chome, Minato-ku, Tokyo, 1080075, Japan ~72: KOSUKE KOGO~ 33:JP ~31:2023-166158 ~32:27/09/2023

2024/06845 ~ Complete ~54:DIRECT REDUCTION PROCESS FOR THE PRODUCTION OF SPONGE IRON USING NON-CATALYTIC CONVERSION OF CH4 ~71:CISDI Engineering Co. LTD, Building 1, No.11 Huijin Road, New North Zone, Chongqing, People's Republic of China;CISDI Shanghai Engineering Technology Co., Building 1, No.11 Huijin Road, New North Zone, Chongqing, People's Republic of China ~72: Cunfang Lu;Kaiji Wu;Liangcheng Lin;Ling Chen;Min Guo;Tao Zhang~

2024/06849 ~ Complete ~54:METHOD FOR LEACHING COPPER BY USING PRESSURE LEACHING ~71:KOREA ZINC CO., LTD., 542, Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: HEON SIK CHOI;SUNG WON PARK~ 33:KR ~31:10-2022-0128929 ~32:07/10/2022

2024/06866 ~ Complete ~54:HYDRAULIC BINDER COMPOSITION COMPRISING BLAST FURNACE SLAG ~71:CHRYSO, Tour Saint-Gobain, 12 Place de l'Iris, France ~72: BONAFOUS, Laurent;BOUSTINGORRY, Pascal;DAVID, Marie~ 33:FR ~31:2202087 ~32:10/03/2022

2024/06833 ~ Provisional ~54:PATENT BRIEF DOCUMENT FOR THE REHABILITATION INSTRUMENT ~71:arthur gert nieklaassen, Endeman Street, Dawnpark, Boksburg, South Africa, South Africa;arthur gert nieklaassen, Endeman Street, Dawnpark, Boksburg, South Africa, South Africa ~72: arthur gert nieklaassen~

2024/06836 ~ Provisional ~54:CONVEYOR BELT ALIGNMENT DEVICE ~71:Jacques Henri Smit, 9 Marble Crescent, South Africa ~72: Jacques Henri Smit;Jacques Henri Smit~33:ZA ~31:CLBA\_001 ~32:04/09/2024

2024/06841 ~ Complete ~54:DRIVING EVALUATION DEVICE, DRIVING EVALUATION SYSTEM, DRIVING EVALUATION METHOD, AND PROGRAM ~71:YAZAKI CORPORATION, 8-15, Konan 1-Chome, Minato-ku, Tokyo, 1080075, Japan ~72: TOMOHIRO FUKUDA~ 33:JP ~31:2023-166159 ~32:27/09/2023

2024/06848 ~ Complete ~54:FORMULATIONS COMPRISING ACID-NEUTRALIZING POLYMER FOR ORAL ADMINISTRATION OF GLUCAGON-LIKE PEPTIDE-1 AND ANALOGS THEREOF ~71:ENTERA BIO LTD., Jerusalem Bio Park, Hadassah Ein-Kerem, P.O. Box 12117, Israel ~72: BURSHTEIN, Gregory;GALITZER, Hillel;ITIN, Constantin;SCHWARTZ, Phillip M.~ 33:US ~31:63/313,365 ~32:24/02/2022

2024/06850 ~ Complete ~54:METHOD FOR REMOVING HALIDES FROM WAELZ OXIDE ~71:KOREA ZINC CO., LTD., 542, Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: HEON SIK CHOI;JAE HOON JOO~ 33:KR ~31:10-2022-0132507 ~32:14/10/2022

2024/06860 ~ Complete ~54:FORMULATIONS COMPRISING ACID-NEUTRALIZING POLYMER FOR ORAL ADMINISTRATION OF GLUCAGON-LIKE PEPTIDE-2 ~71:ENTERA BIO LTD., Jerusalem Bio Park, Hadassah Ein-Kerem, P.O. Box 12117, Israel ~72: BURSHTEIN, Gregory;GALITZER, Hillel;ITIN, Constantin;SCHWARTZ, Phillip M.~ 33:US ~31:63/313,361 ~32:24/02/2022

2024/06863 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ENHANCING CORN TRAITS AND YIELD USING GENOME EDITING ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: BEACH, Steven;MANJUNATH, Sivalinganna;RYMARQUIS, Linda;SLEWINSKI, Thomas L.;WU, Xiaoyun~ 33:US ~31:63/324,994 ~32:29/03/2022

2024/06837 ~ Provisional ~54:ONLINE TRANSACTION AND LOGISTICS PLATFORM ~71:AMANDLA AWETHU PROJECTS (PTY) LTD., No. 124, 10th Road, KEW, Johannesburg 2090, Gauteng, SOUTH AFRICA, South Africa ~72: SODIDI, Lungile Faith;STOLLAR, Mark~

2024/06839 ~ Complete ~54:METHOD AND SYSTEM FOR CONVERTING COAL INTO INPUT MATERIAL FOR GASIFICATION ~71:EESTECH EUROPE HOLDINGS BV, Kingsfordweg 151, 1043 GR, Amsterdam, Netherlands ~72: Chad Lehman;Murray Bailey~

2024/06842 ~ Complete ~54:PROTEIN ISOLATION APPARATUS FOR EXTRACTING PROTEINS FROM SESAME SEED MEAL ~71:Anhui Province Fengyang County Yushang Oil Co., Ltd., No. 32 Linhuaiguan Town, Fengyang County, Chuzhou City, Anhui Province, 239000, People's Republic of China;Anhui Science And Technology University, No. 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, 233100, People's Republic of China ~72: CHEN, Shengwei;DU, Wei;HE, Miao;JIN, Tiantian;LI, Dan;LI, Peiyan;MA, Manting;MA, Youshui;WANG, Xinyi;YAN, Han;ZHAO, Ruohan~ 33:CN ~31:202323385244.X ~32:13/12/2023

2024/06843 ~ Complete ~54:DESIGN METHOD OF COLD RECYCLED MIXTURE CONSIDERING MULTIVARIABLE COMBINATION ~71:CCCC FIRST HIGHWAY FIFTH ENGINEERING CO LTD, Zhoujiajing Courtyard, Guanzhuang, Chaoyang District, Beijing, 100024, People's Republic of China;CHINA FIRST HIGHWAY ENGINEERING CO., LTD., Zhoujiajing, Guanzhuang, Chaoyang District, Beijing, 100000, People's Republic of China ~72: CHEN, Pengfei;GUO, Qingyang;HAN, Zhanchuang;LI, Wei;LIU, Tian;WANG, Shaoyong;WANG, Yuguo;ZHAO, Mingjie~ 33:CN ~31:202410494236.9 ~32:23/04/2024 2024/06847 ~ Complete ~54:FORMULATIONS COMPRISING ACID-NEUTRALIZING POLYMER FOR ORAL ADMINISTRATION OF PARATHYROID HORMONE ~71:ENTERA BIO LTD., Jerusalem Bio Park, Hadassah Ein-Kerem, P.O. Box 12117, Israel ~72: BURSHTEIN, Gregory;GALITZER, Hillel;ITIN, Constantin;SCHWARTZ, Phillip M.~ 33:US ~31:63/313,367 ~32:24/02/2022

2024/06851 ~ Complete ~54:CAP FOR A CONTAINER ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ZENO ZUFFA~ 33:IT ~31:102022000006701 ~32:05/04/2022

2024/06857 ~ Complete ~54:COMPOSITIONS COMPRISING CHLORANRAANILIPROLE AND SPECIFIC SEMOCHEMICAL COMPONENTS ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America;FMC IP TECHNOLOGY GMBH, Industrieplatz 1c/Mittelbau, 8212, Neuhausen, Switzerland ~72: CARLOS HORACIO FERNANDEZ BESCHTEDT;JORGE LUIS MORRE;LUIS TEIXEIRA;PAUL DUNN;ROBERT ALBER;SANTIAGO ALEJANDRO SCARPONI~ 33:US ~31:63/317,570 ~32:08/03/2022

2024/06865 ~ Complete ~54:BRAKING ENERGY CONTROL CIRCUIT AND CHARGING ROBOT ~71:ANHUI YIJIANENG DIGITAL TECHNOLOGY CO., LTD., Room 521, 5th Floor, No.582, People's Republic of China ~72: DAI, Yong~ 33:CN ~31:202222873078.7 ~32:28/10/2022

- APPLIED ON 2024/09/06 -

2024/06880 ~ Complete ~54:AN INTEGRATED EARLY WARNING DEVICE FOR MINE DYNAMIC DISASTERS BASED ON NUCLEAR MAGNETIC RESONANCE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Bing Jia;Fangchao Lu;Jingjing Liu;Junli Jia;Junwei Zhang;Kangyi Chen;Pengbo Li;Quan Ma;Yifang Wang;Yiju Tang~

2024/06894 ~ Complete ~54:METHODS FOR REDUCING INFUSION-RELATED REACTIONS IN PATIENTS TREATED WITH EGFR/MET BISPECIFIC ANTIBODIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: AGRAWAL, Trishala;MAHADEVIA, Parthiv~ 33:US ~31:63/307,375 ~32:07/02/2022;33:US ~31:63/389,042 ~32:14/07/2022

2024/06897 ~ Complete ~54:RECIRCULATING HYDRO-PNEUMATIC IMPULSE TURBINE ~71:Gravity Energy Pty Ltd, 13 One and All Drive, North Haven, 5018, SOUTH AUSTRALIA, AUSTRALIA, Australia ~72: BARTOLO, Kevin Robert~ 33:AU ~31:2022900497 ~32:02/03/2022

2024/06875 ~ Complete ~54:MOVABLE LIFTING WORKING PLATFORM OF SLAUGHTER ~71:Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd., No. 02, Building 5, Plot 5, Yinfeng Shengwucheng Premises, Chunlan Road 1177, High-tech Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;LIAO Yuxue;LIN Haichao;LIU Xiaohui;WANG Huaizhong;WANG Ran;ZHAO Xueyan~

2024/06879 ~ Complete ~54:BREEDING BOX FOR BREEDING OF HOG ~71:Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd., No. 02, Building 5, Plot 5, Yinfeng Shengwucheng Premises, Chunlan Road 1177, High-tech Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;LIAO Yuxue;LIN Haichao;LIU Xiaohui;WANG Huaizhong;WANG Ran;ZHAO Xueyan~

2024/06886 ~ Complete ~54:TRANSCRIPTIONAL REGULATORS OF THE TEAD FAMILY ~71:SANOFI, 46 Avenue de la Grande, France ~72: SPANAKIS, Emmanuel~ 33:EP ~31:22315071.5 ~32:23/03/2022

2024/06890 ~ Complete ~54:RADIOTHERAPEUTIC BANDAGE COMPOSITION AND METHOD ~71:DB THERAPEUTICS, INC., 29 GRANDSTAND CIRCLE, APT B Rochester, New York, United States of America ~72: ANTHONY DI PASQUA~ 33:US ~31:63/268,896 ~32:04/03/2022

2024/06872 ~ Provisional ~54:RUT FILLING EQUIPMENT ~71:TRETHEWEY, Vincent Lance, K3 Farm, R614, Main Road, South Africa ~72: TRETHEWEY, Vincent Lance~

2024/06877 ~ Complete ~54:STEEL PROTECTION COMPOSITE ALLOY COATING AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Changde Huaye Surface Technology Co., Ltd, (Dahua Surface Treatment Plant 3), No. 7, Songlin Road, Sujiadu Community, Zhangmuqiao Street, Changde Economic and Technological Development Zone, Changde, Hunan, People's Republic of China ~72: Chunhui Zhang;Jun Zhou;Xiang Yi~

2024/06883 ~ Complete ~54:VERSATILE BASE FOR CAN NECKING SYSTEM ~71:BELVAC PRODUCTION MACHINERY, INC., 237 Graves Mill Road, Lynchburg, Virginia, 24502, United States of America ~72: DENNIS E GREEN;JEFFREY L SHORTRIDGE;LARRY D MCKINNEY~ 33:US ~31:62/744,186 ~32:11/10/2018

2024/06898 ~ Complete ~54:STABLE AQUEOUS FORMULATION OF AN ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT ~71:AdrenoMed AG, Neuendorfstrasse 15A, HENNIGSDORF 16761, GERMANY, Germany ~72: GOLDSTEIN, Jarrid~ 33:EP ~31:22162271.5 ~32:15/03/2022

2024/06874 ~ Complete ~54:AN AUXILIARY DEVICE FOR INSULATION PIPELINE CONSTRUCTION ~71:Jiangsu Tiejun Software Technology Co., Ltd, 7th Floor, Building 11-A, Zilang Science and Technology City, Nantong Innovation Zone, No. 60 Chongzhou Avenue, Nantong City, Jiangsu Province, 226010, People's Republic of China;Nantong Institute of Technology, No. 211 Yongxing Road, Chongchuan District, Nantong City, Jiangsu Province, 226001, People's Republic of China ~72: Huang Lujian;Song Juan;Wu Xu;Xue Jun~

2024/06881 ~ Complete ~54:A MINING-INDUCED WATER INRUSH EARLY WARNING DEVICE UTILIZING NUCLEAR MAGNETIC RESONANCE TECHNOLOGY ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Chaoyang Yan;Fangchao Lu;Jia Cheng;Quan Lou;Sheng Liu;Yan Rui;Yating Nie;Yifang Wang;Yiju Tang;Yuxin Xue~

2024/06884 ~ Complete ~54:PEDICLE SCREWS ~71:Southern Cross Patents Pty Ltd, 17 Menin Road, CORINDA 4075, QUEENSLAND, AUSTRALIA, Australia ~72: MCPHEE, Robert~ 33:AU ~31:2018904378 ~32:16/11/2018

2024/06888 ~ Complete ~54:SUPPLEMENT STIMULATING ROOT SYSTEM OF PLANTS IN TIMES OF CLIMATE CHANGES ~71:MANEKO, SPOL. S R.O., V oresi 49/13, 165 00 Praha 6, Suchdol, Czech Republic ~72: SCHULMANN, Jan~ 33:CZ ~31:PV 2022-135 ~32:25/03/2022

2024/06891 ~ Complete ~54:POLYMORPHS OF A DIHYDROOROTATE DEHYDROGENASE (DHOD) INHIBITOR ~71:KIORA PHARMACEUTICALS GMBH, Reisnerstrasse 34/1, Austria ~72: DEL RIO GANCEDO, Susana;HARRIS, Joseph Stephen;PLASSER, Lisa;SCOTT, Christopher Daniel;SPERL, Stefan;SULEIMAN, Osama~ 33:US ~31:63/318,281 ~32:09/03/2022 2024/06871 ~ Provisional ~54:ULTIMATE ARCHIVES FUNCTIONS 2ND PATENT ~71:Kgothatso Alpheus Mokonyane, 4061 Zone 3, Ranta Street, South Africa ~72: Kgothatso Alpheus Mokonyane~ 33:ZA ~31:27/2024/00805 ~32:05/09/2024

2024/06873 ~ Complete ~54:A MICROALGAE TREATMENT WASTEWATER PHOTOBIOREACTOR WITH AUTOMATIC ADJUSTABLE SCRAPING WALL ~71:Shihezi University, No. 221, Beisi Road, Shihezi City, Xinjiang, 832003, People's Republic of China ~72: Ma Chengxiao;Qu Wenying~

2024/06878 ~ Complete ~54:SAFETY PROTECTION FACILITY FOR LACTATING PIGS ~71:Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd., No. 02, Building 5, Plot 5, Yinfeng Shengwucheng Premises, Chunlan Road 1177, High-tech Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;LIAO Yuxue;LIN Haichao;WANG Huaizhong;WANG Ran;XIE Qingzhu;ZHAO Xueyan~

2024/06882 ~ Complete ~54:A TRADITIONAL CHINESE MEDICINE LINIMENT FOR TREATING JOINT PAIN AND A PREPARATION METHOD THEREOF ~71:Xinjie Ming, East of the Middle Section of Xinxing Avenue, Huangta Village, Banpodian Town, Huaxian County, Anyang City, Henan Province, 456485, People's Republic of China ~72: Chaoge Ming;Lizhao Ming;Xinhui Ming;Xinjie Ming;Xinyue Ming~

2024/06885 ~ Complete ~54:BROAD SPECTRUM AMINOGLYCOSIDES AND USES THEREOF ~71:REVAGENIX, INC., 548 Market St #22162, United States of America ~72: CALABRESE, Andrew Antony;CIRZ, Ryan Thomas;LOPEZ, Michael Steven~ 33:US ~31:63/316,731 ~32:04/03/2022

2024/06889 ~ Complete ~54:BLOCK CAVING MINE CONFIGURATIONS AND METHODS ~71:CAVEMAN CONSULTING PTY LTD, 2 Ischia Street, Cronulla, New South Wales, 2230, Australia ~72: GEOFFREY DUNSTAN~ 33:AU ~31:2022900527 ~32:04/03/2022

2024/06892 ~ Complete ~54:PEPTIDE HAVING ANTIDIABETIC ACTIVITY, PEPTIDE COMPLEX, AND USE THEREOF ~71:Caregen Co., Ltd., 46-38, LS-ro 91beon-gil, Dongan-gu, ANYANG-SI 14119, GYEONGGI-DO, REPUBLIC OF KOREA, Republic of Korea ~72: CHUNG, Yong Ji;KIM, Eun Mi;KIM, Seon Soo~ 33:KR ~31:10-2022-0036947 ~32:24/03/2022

2024/06899 ~ Complete ~54:INSULIN FUSION PROTEIN ~71:Scout Bio, Inc., 100 N. 18th Street, Suite 300, PHILADELPHIA 19103, PA, USA, United States of America ~72: BUSFIELD, Samantha J.;WILSON, Matthew J.~ 33:US ~31:63/315,296 ~32:01/03/2022

2024/06895 ~ Complete ~54:METHODS OF TREATING SMALL CELL LUNG CANCER ~71:Debiopharm International S.A., Forum "après-demain", Chemin Messidor 5-7, LAUSANNE 1006, SWITZERLAND, Switzerland ~72: BELLON, Anne;DAMSTRUP, Lars;NICOLAS, Valerie;PIGGOTT, Luke;RODRIGO IMEDIO, Esteban;VASLIN CHESSEX, Anne;ZANNA, Claudio~ 33:EP ~31:22160556.1 ~32:07/03/2022

2024/06901 ~ Complete ~54:COMPOSITION, METHOD AND SYSTEM FOR STABILISING A ROCK MASS ~71:VACREST PTY LTD, 117 Moira Park Rd, Morisset, Australia ~72: CORNFORD, Ethan~ 33:AU ~31:2022900580 ~32:10/03/2022

2024/06896 ~ Complete ~54:SOLID FORMS, SALTS, AND PROCESSES OF PREPARATION OF A CDK2 INHIBITOR ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: CARPER, Daniel;GUO, Wenxing;JIA, Zhongjiang;SCLAFANI, Joseph A.;SHI, Eric;ZHANG, Aibin;ZHANG, Huaping~ 33:US ~31:63/317,308 ~32:07/03/2022

2024/06876 ~ Complete ~54:METHOD FOR CONTROLLING BLACKHEART DISEASE OF WAX GOURD ~71:Institute of Vegetables, Hainan Academy of Agricultural Sciences, No. 14, Xingdan Road, Qiongshan District, Haikou City, Hainan Province, 571100, People's Republic of China;Sanya Institute of Hainan Academy of Agricultural Sciences(Hainan Experimental Animal Research Center), No. 496-9, 4th Floor, Building 1, Yonyou Industrial Park, Yazhou Bay Science and Technology City, Sanya City, Hainan Province, 572024, People's Republic of China ~72: CHEN, Yisong;LIAO, Daolong;LIU, Zifan;MI, Baobin;WANG, Jing;YOU, Zhicong;YUN, Tianhai;ZHANG, Baige~ 33:CN ~31:202311149625.X ~32:07/09/2023

2024/06887 ~ Complete ~54:ACETONITRILE RECOVERY PROCESS ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: FLEURY, Christian;GUELAT, Bertrand;VENTURONI, Francesco;Ó MEADHRA, Ruairí~ 33:EP ~31:22161657.6 ~32:11/03/2022

2024/06893 ~ Complete ~54:AUTOMATED EXTERNAL DEFIBRILLATORS WITH AUTOMATIC SELECTION BETWEEN ADULT AND PAEDIATRIC DEFIBRILLATION DOSES ~71:CellAED Life Saver Pty Ltd, 1 Lesley Close, Elanora Heights, SYDNEY 2101, NEW SOUTH WALES, AUSTRALIA, Australia ~72: CASEY, Donovan Lachlan;NASSIR, Atheer;TEBER, Erol Erdogan~ 33:AU ~31:2022900264 ~32:09/02/2022

2024/06900 ~ Complete ~54:ANTI-GD2 ANTIBODIES, IMMUNOCONJUGATES AND THERAPEUTIC USES THEREOF ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293, GERMANY, Germany ~72: AMENDT, Christiane;ANDERL, Jan;DOTTERWEICH, Julia;GROSS, Alec;MA, Jianguo;McKENNA, Sean D.;RASCHE, Nicholas;SHAN, Min;SLOOT, Willem~ 33:US ~31:63/318,256 ~32:09/03/2022;33:US ~31:63/488,269 ~32:03/03/2023

- APPLIED ON 2024/09/09 -

2024/06903 ~ Provisional ~54:SPOUT ATTACHMENT FOR A CONTAINER ~71:SIMON PETRUS JACOBS, 23 Ebony Street, Jeffreys Bay, 6330, South Africa ~72: SIMON PETRUS JACOBS~

2024/06929 ~ Complete ~54:DOCK DRAINAGE PUMP POOL RECTIFICATION AND WHIRL ELIMINATION TEST APPARATUS AND TEST METHOD ~71:SEPCO ELECTRIC POWER CONSTRUCTION CORP., Building 5, Zone 3, Hanyu Financial and Business Center, Jinan, People's Republic of China ~72: LIU, Hongtao~ 33:CN ~31:202310129015.7 ~32:17/02/2023;33:CN ~31:202320241632.1 ~32:17/02/2023

2024/06912 ~ Complete ~54:INFRARED PLASMA LIGHT RECYCLING THERMOPHOTOVOLTAIC HYDROGEN ELECTRICAL POWER GENERATOR ~71:BRILLIANT LIGHT POWER, INC., 493 Old Trenton Road, Cranbury, United States of America ~72: MILLS, Randell L.~ 33:US ~31:63/332,111 ~32:18/04/2022;33:US ~31:63/339,949 ~32:09/05/2022;33:US ~31:63/343,971 ~32:19/05/2022;33:US ~31:63/355,562 ~32:24/06/2022;33:US ~31:63/368,602 ~32:15/07/2022;33:US ~31:63/370,106 ~32:01/08/2022

2024/06923 ~ Complete ~54:HUMANIZED ANTI-TDP-43 BINDING MOLECULES AND USES THEREOF ~71:AC Immune SA, EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: AFROZ, Tariq;AUDRAIN, Mickaël Marc Pascal;OLLIER, Romain Christian~ 33:EP ~31:22157150.8 ~32:16/02/2022;33:EP ~31:22177361.7 ~32:06/06/2022;33:EP ~31:23152958.7 ~32:23/01/2023;33:EP ~31:23153165.8 ~32:24/01/2023

2024/06931 ~ Complete ~54:GALNAC COMPOSITIONS FOR IMPROVING SIRNA BIOAVAILABILITY ~71:EMPIRICO INC., 4660 La Jolla Village Drive, Suite 100, United States of America ~72: GOTTESMAN, Omri;ROZEMA, David;WAKEFIELD, Darren H.~ 33:US ~31:63/320,431 ~32:16/03/2022;33:US ~31:63/354,359 ~32:22/06/2022;33:US ~31:63/430,542 ~32:06/12/2022

2024/06904 ~ Complete ~54:GRAPHIC IMAGE PROCESSING PLATFORM ~71:Anqing Normal University, 128 Linghu South Road, Anqing City,, Anhui Province, 246002, People's Republic of China ~72: HU, Haoran;XIE, Shaoguo~

2024/06907 ~ Complete ~54:A KIND OF FLUORITE-PYROCHLORE DUAL-PHASE HIGH-ENTROPY OXIDE CERAMIC POWDER AND ITS PREPARATION METHOD ~71:Taiyuan University of Technology, No.79 West Street Yingze, Taiyuan City, Shanxi Province, 030000, People's Republic of China ~72: Chao MA;Jiadong HOU;Weihua JI;Yang MIAO;Ziqian MENG~ 33:CN ~31:2024112358162 ~32:04/09/2024

2024/06906 ~ Complete ~54:MUNICIPAL SLUDGE-DERIVED SOLID FUEL PREPARATION DEVICE ~71:Hebei University of Technology, No.5340 Xiping Road, Beichen District, Tianjin, People's Republic of China;Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: DONG Shanshan;FU Haoka;HAN Ershuai;JU Rui;LI Hengbin;LIU Lele;LIU Liyuan;WANG Jing;WANG Xutao;ZHANG Lilin;ZHANG Zhiyuan;ZHOU Hengtao~

2024/06913 ~ Complete ~54:METHOD AND DEVICE FOR RESTORATION OF A BATTERY'S ENERGY PARAMETERS ~71:WAVETECH GMBH, Marie-Burie-Straβe 5, Germany ~72: MONAHOV, Boris Ivanov;NACHEV, Yordan Yordanov;NAYDENOV, Vesselin Bojidarov;VALAND, Dag A.~ 33:US ~31:17/688,308 ~32:07/03/2022

2024/06920 ~ Complete ~54:FOOD PRODUCTS FROM ROOT VEGETABLES ~71:MCCAIN FOODS LIMITED, 8800 Main Street, Canada ~72: DALE, Christopher Simon;HOLT, Celia Jane;KIRTLEY, Nigel;LAUDANO, Raymond J.;SPIZZIRRI, Lora Nicolette;SPORS, Derek E.~ 33:US ~31:63/311,567 ~32:18/02/2022

2024/06919 ~ Complete ~54:VALVE ~71:WEIR MINERALS NETHERLANDS B.V., Egtenrayseweg 9, Netherlands ~72: STROEKEN, Johannes;UMMENTHUN, Frank~ 33:GB ~31:GB 2204876.3 ~32:04/04/2022

2024/06926 ~ Complete ~54:STAT MODULATORS AND USES THEREOF ~71:Recludix Pharma, Inc., 3525 John Hopkins Court, Suite 150, SAN DIEGO 92121, CA, USA, United States of America ~72: BIFULCO, Neil;BREGMAN, Howard;CIANCHETTA, Giovanni;HODOUS, Brian;REZNIK, Samuel K.;SICKMIER, Ernest Allen;TANG, Yong;TASKER, Andrew;TIAN, Xia;VASWANI, Rishi G.;YEOMAN, John~ 33:US ~31:63/325,908 ~32:31/03/2022;33:US ~31:63/337,388 ~32:02/05/2022

2024/06902 ~ Provisional ~54:ABAHLALI GAME CHANGERS TUCKSHOP ASSOCIATION ~71:Mandla Kenneth Mazibuko, 750 Ligebe Street, Daveyton, South Africa;Thando Mabuza, 750 Ligebe Street, Daveyton, South Africa ~72: Mandla Kenneth Mazibuko;Thando Mabuza~

2024/06911 ~ Complete ~54:GLOBAL ORDER MANAGEMENT AND PROCESSING SYSTEM AND METHOD THEREOF ~71:Gruvtec (Pty) Ltd, 82 Tamboti Road, La Maison Royale H68, Midrand, 1685, SOUTH AFRICA, South Africa ~72: TSHETLO, Katlego Tsholofelo~ 33:ZA ~31:2023/06107 ~32:09/06/2023

2024/06916 ~ Complete ~54:PROTACS OF MALT1 ~71:TEGID THERAPEUTICS, INC., 12730 High Bluff Drive, Suite 100, United States of America ~72: ABAGYAN, Ruben;IVACHTCHENKO, Alexandre Vasilievich;KHVAT, Alexander;PARCHINSKY, Vladislav Zenonovich;SAVCHUK, Nikolay~ 33:US ~31:63/314,205 ~32:25/02/2022

2024/06917 ~ Complete ~54:AZOLE COMPOUND AND ANTIFUNGAL AGENT ~71:NIHON NOHYAKU CO., LTD., 19-8, Kyobashi 1-chome Chuo-ku, Tokyo, 1048386, Japan ~72: AKIHIRO NAKAMURA;YOSUKE MIYAZAKI~ 33:JP ~31:2022-043359 ~32:18/03/2022;33:JP ~31:2022-190422 ~32:29/11/2022

2024/06930 ~ Complete ~54:DRUG DELIVERY SYSTEM COMPRISING AN ANTI-INFLAMMATORY AGENT OR A SALT THEREOF FOR THE APPLICATION TO ESOPHAGEAL MUCOUS MEMBRANES ~71:ESOCAP AG,

Malzgasse 9, Switzerland ~72: ROSENBAUM, Christoph;WEITSCHIES, Werner~ 33:EP ~31:22177668.5 ~32:07/06/2022

2024/06922 ~ Complete ~54:PIPERAZINE SUBSTITUTED INDAZOLE COMPOUNDS AS INHIBITORS OF PARG ~71:IDEAYA BIOSCIENCES, INC., 5000 Shoreline Court, Suite 300, South San Francisco, United States of America ~72: ABED, Monah;BARSANTI, Paul A.;DILLON, Michael Patrick;JAIPURI, Firoz Ali;LINGHU, Xin;XU, Ying-Zi~ 33:US ~31:63/322,994 ~32:23/03/2022

2024/06925 ~ Complete ~54:A ROCK BOLT ~71:Sandvik Mining and Construction Australia (Production/Supply) Pty Ltd, Level 5 / 135 Coronation Drive, MILTON 4064, QUEENSLAND, AUSTRALIA, Australia ~72: RATAJ, Mietek;WEAVER, Steven~ 33:EP ~31:22167432.8 ~32:08/04/2022

2024/06918 ~ Complete ~54:CB1 LIGAND CONJUGATED COMPOUNDS AND USES THEREOF ~71:ADARX PHARMACEUTICALS, INC., 5871 Oberlin Drive, Suite 200, San Diego, California, 92121, United States of America ~72: CHANDRAMOULI CHIRUTA;MEHDI MICHEL DJAMEL NUMA;RUI ZHU;ZHEN LI~ 33:US ~31:63/315,472 ~32:01/03/2022;33:US ~31:63/327,345 ~32:04/04/2022

2024/06927 ~ Complete ~54:HOT-DIP PLATED STEEL MATERIAL ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8071, JAPAN, Japan ~72: MITSUNOBU , Takuya;TAKEBAYASHI , Hiroshi;TOKUDA , Kohei~ 33:JP ~31:2022-046793 ~32:23/03/2022

2024/06908 ~ Complete ~54:A MULTIFUNCTIONAL COMPOSITE FERTILIZER AND A PREPARATION METHOD THEREOF ~71:Inner Mongolia Tongsifang Agricultural Technology Co., Ltd., Kailu Industrial Park, Kailu County, Tongliao City, Inner Mongolia Autonomous Region, 028400, People's Republic of China ~72: Baofu Liu;Yilin Liu;Yunli Li~ 33:CN ~31:202411102778.3 ~32:13/08/2024

2024/06914 ~ Complete ~54:COMPOUNDS AND METHODS FOR TREATING DISEASE ~71:ROME THERAPEUTICS, INC., 201 Brookline Avenue, Suite 1001 Boston, United States of America ~72: BISACCHI, Gregory Stuart;KAPELLER-LIBERMANN, Rosana;ROMERO, Donna L.;SAUNDERS, Oliver;ZALLER, Dennis~ 33:US ~31:63/269,375 ~32:15/03/2022;33:US ~31:63/354,620 ~32:22/06/2022;33:US ~31:63/424,723 ~32:11/11/2022

2024/06905 ~ Complete ~54:SLUDGE-BASED BIOCHAR ADSORPTION MATERIAL AND APPLICATION THEREOF IN TREATING HEAVY METALS IN SEWAGE ~71:Hebei University of Technology, No.5340 Xiping Road, Beichen District, Tianjin, People's Republic of China;Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: CHEN Honglin;DONG Shanshan;JU Rui;KONG Youfang;LI Hengbin;LIU Lele;LIU Liyuan;WANG Jing;ZHANG Lilin;ZHANG Zhiyuan;ZHOU Hengtao~

2024/06910 ~ Complete ~54:DYNAMICALLY CONFIGURABLE HARDWARE SYSTEM FOR MOTOR SYSTEM AND METHOD FOR OPERATING SAME ~71:Tau Motors, Inc., 1104 Main St., REDWOOD CITY 94063, CA, USA, United States of America ~72: DA COSTA, Anthony;PENNINGTON III, Walter Wesley;PREINDL, Matthias;RUBIN, Mathew J.;STEVENSON, Gregory Gordon;SWINT, Ethan Bagget~ 33:US ~31:63/188,374 ~32:13/05/2021

2024/06928 ~ Complete ~54:BISPECIFIC ANTIBODIES COMPRISING AN NRP1 BINDING DOMAIN AND METHODS OF USE THEREOF ~71:PineTree Therapeutics Inc., 767 Concord Avenue, CAMBRIDGE 02138, MA, USA, United States of America ~72: SONG, Ho-juhn~ 33:US ~31:63/325,312 ~32:30/03/2022;33:US ~31:63/325,317 ~32:30/03/2022

2024/06932 ~ Provisional ~54:20 TON SINGLE ACTING JACK ~71:Mr. Rameriri Aubrey Maboa, Stand No 63 Block 1 Tlobody, South Africa ~72: Mr. Rameriri Aubrey Maboa~

2024/06909 ~ Complete ~54:DYNAMICALLY CONFIGURABLE HARDWARE SYSTEM FOR MOTOR SYSTEM AND METHOD FOR OPERATING SAME ~71:Tau Motors, Inc., 1104 Main St., REDWOOD CITY 94063, CA, USA, United States of America ~72: DA COSTA, Anthony;PENNINGTON III, Walter Wesley;PREINDL, Matthias;RUBIN, Mathew J.;STEVENSON, Gregory Gordon;SWINT, Ethan Bagget~ 33:US ~31:63/188,374 ~32:13/05/2021

2024/06915 ~ Complete ~54:PHARMACEUTICAL COMPOUND ~71:DUKE STREET BIO LIMITED, 2 DUKE STREET, LONDON GREATER LONDON W1U 3EH, UNITED KINGDOM, United Kingdom ~72: COWLEY, Phillip, Martin;HILL, Christopher;WISE, Alan~ 33:GB ~31:2202070.5 ~32:16/02/2022;33:GB ~31:2212967.0 ~32:06/09/2022

2024/06921 ~ Complete ~54:VALVE ~71:WEIR MINERALS NETHERLANDS B.V., Egtenrayseweg 9, Netherlands ~72: STROEKEN, Johannes;UMMENTHUN, Frank~ 33:GB ~31:GB 2204870.6 ~32:04/04/2022

2024/06924 ~ Complete ~54:DUAL LSD1/HDAC INHIBITORS ~71:Jubilant Epicore LLC, 1430 US Highway 206, Suite 110, BEDMINSTER 07921, NJ, USA, United States of America ~72: GAJENDRAN, Chandru;RASTELLI, Luca;SADHU, Naveen;SIVANANDHAN, Dhanalakshmi;SRIDHARAN, Rajagopal~ 33:IN ~31:202241013165 ~32:10/03/2022;33:US ~31:63/368,342 ~32:13/07/2022;33:IN ~31:202241057045 ~32:04/10/2022

- APPLIED ON 2024/09/10 -

2024/06934 ~ Provisional ~54:WATER HEATING SYSTEM CONFIGURATION AND DEVICE ~71:NEILL HUMAN, 11 Maggie Laubser, South Africa ~72: NEILL HUMAN~

2024/06939 ~ Complete ~54:METHOD FOR IDENTIFYING DIFFERENT BROILER VARIETY TYPES BASED ON MITOCHONDRIAL HAPLOTYPES ~71:Jiangsu Institute of Poultry Science, No.58 Cangjie Road, Hanjiang District, Yangzhou City, Jiangsu Province, People's Republic of China ~72: FAN Yanfeng;JIA Xiaoxu;LIU Yinyin;MA Lina;TANG Mengjun;TANG Xiujun;XU Ming;ZHANG Jing;ZHANG Jingxin;ZHANG Xiaoyan~

2024/06943 ~ Complete ~54:A FIXED MECHANISM FOR ROTATING DISPLAY OF INDUSTRIAL PRODUCTS ~71:SHANDONG HUAYU UNIVERSITY OF TECHNOLOGY, NO.968, University East Road, Dezhou City, Shandong Province, 253034, People's Republic of China ~72: Xin Wei~

2024/06945 ~ Complete ~54:NIRF/PA DUAL-MODAL PROBE BASED ON NTR RESPONSE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Hunan Cancer Hospital (The Affiliated Cancer Hospital of Xiangya School of Medicine, Central South University), 283 Tongzipo Road, Yuelu District, Changsha, Hunan, People's Republic of China ~72: Cong Hu;Hongwen Liu;Lemeng Zhang;Xinglong Chen~

2024/06956 ~ Complete ~54:PROXIMITY TRIGGER IN SCENE DESCRIPTION ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: FAIVRE D'ARCIER, Etienne;FONTAINE, Loic;HIRTZLIN, Patrice;JOUET, Pierrick;LELIEVRE, Sylvain~ 33:EP ~31:22305362.0 ~32:24/03/2022

2024/06964 ~ Complete ~54:METHOD FOR PRODUCTION OF BLUE AMMONIA ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: AMEET KAKOTI;PER JUUL DAHL~ 33:DK ~31:PA202200424 ~32:05/05/2022

2024/06940 ~ Complete ~54:FLOTATION METHOD FOR SEPARATING COPPER-MOLYBDENUM MIXED CONCENTRATES WITH IMPROVED MOLYBDENUM AND COPPER RECOVERIES ~71:China Ruilin

Engineering Technology Co., Ltd., No.888 Qianhu Avenue, Hongjiaozhou, Nanchang City, Jiangxi Province, 330036, People's Republic of China ~72: CHU Lixin;DENG Chunhu;FENG Yuguo;GAO Zhiyong;SHEN Louyan;SHI Wei;TANG Fenfen;YU Xun;ZHANG Fan~

2024/06948 ~ Complete ~54:SHIELD CUTTERHEAD FOR SHIELD TUNNELING MACHINE AND SHIELD CONSTRUCTION METHOD ~71:CHINA RAILWAY 14TH BUREAU GROUP EQUIPMENT CO., LTD, No. 66, Branch Road, Sanjiashagang District, Tongzhou Bay Jianghai Joint Development Demonstration Zone, Nantong City, People's Republic of China ~72: JI, Weihua;LI, Dongsheng;LI, Jiaying;LI, Xiangqing;LI, Xiaokang;LU, Wenlin;MAO, Mingli;SUN, Quansheng;TANG, Yajun;TAO, Kanghong;WANG, Zhichao;YANG, Lunlei;YANG, Yong;ZHANG, Yinghan~ 33:CN ~31:2023109773983 ~32:03/08/2023

2024/06954 ~ Complete ~54:COMBINATION THERAPIES ~71:QBIOTICS PTY LTD, SUITE 3A, LEVEL 1, 165 MOGGILL ROAD, TARINGA, QUEENSLAND 4068, AUSTRALIA, Australia ~72: BOYLE, Glen, Mathew;CULLEN, Jason, Kingsley;PARSONS, Peter, Gordon;REDDELL, Paul, Warren~ 33:AU ~31:2022900340 ~32:17/02/2022

2024/06960 ~ Complete ~54:NOVEL IONIZABLE LIPIDS AND LIPID NANOPARTICLES AND METHODS OF USING THE SAME ~71:SAIL BIOMEDICINES, INC., 140 First Street, Suite 601 Cambridge, Massachusetts 02141, United States of America ~72: ALAINA HOWE;ALESSANDRA BARTOLOZZI;ARIJIT ADHIKARI;DOMINICK SALERNO;JENNIFER UNION;JOHN PROUDFOOT;ROMAN ERDMANN;SANMIT ADHIKARI;SIDDHARTH PATEL~ 33:US ~31:63/323,948 ~32:25/03/2022

2024/06966 ~ Complete ~54:METHOD FOR CONTROLLING A SYNTHESIS LOOP ~71:CASALE SA, Via Giulio Pocobelli 6, Switzerland ~72: FILIPPI, Ermanno;GALIMBERTI, Leonardo Angelo;PANZA, Sergio;RIZZI, Maurizio~ 33:EP ~31:22167015.1 ~32:06/04/2022

2024/06933 ~ Provisional ~54:VICE GRID GRAVITY STORAGE ~71:JUNIOR CHIMBOMA NKOSI, 283 BLOCK F4, NEW EERSTRUST, GAUTENG, South Africa ~72: JUNIOR CHIMBOMA NKOSI~

2024/06937 ~ Complete ~54:CELL CULTURE MEDIUM FOR EUKARYOTIC CELLS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHEN, John;GOLDEN, Nathaniel;LONEY, Theodore;SCOTT, Carolyn;XUE, Wei~ 33:US ~31:62/837,263 ~32:23/04/2019

2024/06942 ~ Complete ~54:FOREST INFORMATION EXTRACTION METHOD BASED ON UNMANNED AERIAL VEHICLE AND LASER RADAR ~71:Hainan Academy of Forestry (Hainan Academy of Mangrove), No. 141 Guilinxia Road, Qiongshan District, Haikou City, Hainan Province, 571199, People's Republic of China ~72: Jinrui LEI;Tingtian WU;Wei LIN;Xiaohua CHEN;Xiaoyan PAN;Yiqing CHEN;Yuanling LI;Zongzhu CHEN~ 33:CN ~31:2024110593986 ~32:03/08/2024

2024/06947 ~ Complete ~54:EQUITABLE ECONOMIC TRANSFORMATION: A SYSTEM AND METHOD TO CATALYSE AN ECONOMY THROUGH SHARED VALUE FINANCE AND SHARED VALUE CREATION ~71:SMITH, George, 11 VORSTER PLACE, BEDFORDVIEW, 2007, SOUTH AFRICA, South Africa ~72: SMITH, George~ 33:ZA ~31:2023/08055 ~32:21/08/2023

2024/06952 ~ Complete ~54:IMMUNOGENIC COMPOSITION USEFUL FOR VACCINATION AGAINST ROTAVIRUS ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: ANSTROM, David, Michael;HAIWICK, Gregory, Brian;JOHNSON, Wesley, Scott;JORDAN, Dianna M. Murphy;NICHOLSON, Bryon;PATTERSON, Abby, Rae;VAUGHN, Eric, Martin;WIDENER, Justin~ 33:US ~31:63/362,488 ~32:05/04/2022

2024/06959 ~ Complete ~54:COMPOSITIONS OF AND METHODS FOR A COLD SLURRY HAVING HYALURONIC ACID ~71:BRIXTON BIOSCIENCES, INC., 1000 Massachusetts Avenue, Cambridge, Massachusetts 02138, United States of America ~72: CHARLES SIDOTI;DANIELLE BRUCATO;JOSEPH AARON;JUN LI;MANSOOR M AMIJI;OLIVIER KAGAN;SAMEER SABIR~ 33:US ~31:63/309,291 ~32:11/02/2022

2024/06962 ~ Complete ~54:GPR35 MODULATORS AND USES THEREOF ~71:CROSSIGNAL THERAPEUTICS, INC., 505 Coast Blvd., South, Suite 406, La Jolla, California, 92037, United States of America ~72: HONGMEI HE;SANGDON HAN;ZHI LIANG CHU~ 33:US ~31:63/328,415 ~32:07/04/2022

2024/06965 ~ Complete ~54:DEVICE FOR PROVIDING BRAIDS, SYSTEM COMPRISING THE DEVICE AND METHOD FOR PROVIDING BRAIDS ~71:GEOBRUGG AG, Aachstrasse 11, South Africa ~72: Gabriel VON RICKENBACH;Rico BRÄNDLE~ 33:DE ~31:10 2022 110 418.4 ~32:28/04/2022

2024/06968 ~ Complete ~54:MODULAR BATTERY SYSTEM ~71:SCANDINAVIAN BATTERY TECHNOLOGY AB, Skattegården 4, Sweden ~72: ERIKSSON, Frank;MANNERHAGEN, Felix~ 33:SE ~31:2250250-4 ~32:24/02/2022

2024/06969 ~ Provisional ~54:SMART GIFT CARD ~71:Fumani MAvukane, Terre nova, South Africa ~72: Fumani MAvukane~

2024/06935 ~ Provisional ~54:ANGEL DEGREE SOCKET ~71:Antony Czeslaw Falencikowski, 5 Commisioner street, South Africa ~72: Antony Czeslaw Falencikowski~

2024/06936 ~ Complete ~54:METHOD AND SYSTEM FOR DETECTING POLYMER COMPOSITE MATERIAL BASED ON SHEAR RHEOMETER ~71:Suzhou University, Suzhou University, Suzhou Education Park, Anhui Province, Suzhou, Yongqiao District, 234000, People's Republic of China ~72: Haitao Fu;Jianxiu Hao;Ligang Zhang;Mengyuan Dun~

2024/06941 ~ Complete ~54:LARGE-TORSION VERTICAL-AXIS DOUBLE-REVERSE WIND ENERGY CONVERSION APPARATUS ~71:Shipu Zhang, Section 87, Xinhua Kung Community, New Heilongjiang Qiqihar, Longsha District, Wulong Street, 161000, People's Republic of China;Shoufeng Zhang, Section 87, Xinhua Kung Community, New Heilongjiang Qiqihar, Longsha District, Wulong Street, 161000, People's Republic of China;Shouyi Zhang, Section 87, Xinhua Kung Community, New Heilongjiang Qiqihar, Longsha District, Wulong Street, 161000, People's Republic of China;Sylvia Chang, Section 87, Xinhua Kung Community, New Heilongjiang Qiqihar, Longsha District, Wulong Street, 161000, People's Republic of China ~72: Linhao Xie;Shipu Zhang;Shoufeng Zhang;Shouyi Zhang;Sylvia Chang;Yu Liu~ 33:CN ~31:202322470613.9 ~32:12/09/2023

2024/06949 ~ Complete ~54:DECENTRALIZED SECURE MOBILE PAYMENT SYSTEM ~71:AIEYE INTELLECTUAL PROPERTY (PTY) LTD, 18 EXETER JOHANNES MEYER STREET BASSONIA, South Africa ~72: CHOTU, Mitesh;GAJOVIĆ, Slaven~

2024/06953 ~ Complete ~54:METHODS OF MAPPING ANTIGEN SPECIFICITY TO ANTIBODY-SECRETING CELLS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ASRAT, Seblewongel;ATWAL, Gurinder;CHEN, Gang;DAVIS, Samuel;DEVLIN, Joseph Cooper;KLOTZ, Brian;LEE, Wen-Yi;LIM, Wei Keat;ORENGO, Jamie;SETLIFF, Marion Francis;SLEEMAN, Matthew;SONG, Hang;VECCHIONE, Andrea;VELEZ, Kristel~ 33:US ~31:63/319,883 ~32:15/03/2022;33:US ~31:63/433,728 ~32:19/12/2022

2024/06957 ~ Complete ~54:MOLTEN GLASS TRANSPORT GUIDE FOR A TRANSPORT CUP ~71:Owens-Brockway Glass Container Inc., One Michael Owens Way, PERRYSBURG 43551, OH, USA, United States of America ~72: GRAFF, Stephen M.;JOHNSTON, Karl~ 33:US ~31:63/313,887 ~32:25/02/2022

2024/06938 ~ Complete ~54:JUNCTURE ASSEMBLY FOR COAXIAL CABLE ~71:FOURIE, Andries Petrus Cronje, 24 Kilkenny Road, Parkview, South Africa ~72: FOURIE, Andries Petrus Cronje~ 33:NL ~31:2035790 ~32:13/09/2023

2024/06944 ~ Complete ~54:A PLANTING LAYER STRUCTURE FOR ECOLOGICAL RESTORATION OF GARDEN SLOPES ~71:Anhui University of Science and Technology, No. 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: CHEN Hong;CHENG Yanli;ZHAO Kunkun~ 33:CN ~31:2024111640448 ~32:23/08/2024

2024/06951 ~ Complete ~54:MULTISPECIFIC ANTIBODIES TARGETING IL-13 AND IL-18 ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BARDROFF, Michael, Otto;CEBE, Regis;KIFFE, Michael;KOLBINGER, Frank;KOVARIK, Jiri;RITTER, Anett;ROTH, Lukas~ 33:US ~31:63/334,964 ~32:26/04/2022

2024/06958 ~ Complete ~54:HOT METAL PRODUCTION FROM DRI WITH ELECTRIC ARC HEATING ~71:Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.), 2-4, Wakinohama-Kaigandori 2-chome, Chuo-ku, KOBE-SHI 651-8585, HYOGO, JAPAN, Japan;Midrex Technologies, Inc., 3735 Glen Lake Drive, Suite 400, CHARLOTTE 28208, NC, USA, United States of America ~72: FUJIWARA, Katsuma;MICHISHITA, Haruyasu;MIMURA, Tsuyoshi;TOKUDA, Koji~ 33:US ~31:63/318,935 ~32:11/03/2022;33:US ~31:18/118,355 ~32:07/03/2023

2024/06967 ~ Complete ~54:SWITCHGEAR WITH CONTACTLESS POWER TRANSMISSION SYSTEM FOR A TANK SENSOR ~71:EATON INTELLIGENT POWER LIMITED, Eaton House, Ireland ~72: PINGLE, Mangesh;RAJWADE, Yogesh Suresh~ 33:IN ~31:202211029970 ~32:25/05/2022;33:GB ~31:2210636.3 ~32:20/07/2022

2024/06946 ~ Complete ~54:SEPARATOR WHEEL WITH HYBRID SEPARATOR WHEEL VANES FOR WEAR PROTECTION PURPOSES ~71:Netzsch-Feinmahltechnik GmbH, Sedanstraβe 70, SELB 95100, GERMANY, Germany ~72: SERGI, Alegre~ 33:DE ~31:10 2023 124 410.8 ~32:11/09/2023

2024/06950 ~ Complete ~54:USE OF CINNAMON ESSENTIAL OIL IN PLANT DISEASE PREVENTION AND TREATMENT ~71:TAISHAN UNIVERSITY, No. 525, Dongyue Street, Taian, Shandong, 271000, People's Republic of China ~72: DING, Haikui;YANG, Guangcheng;YANG, Xiaolong;ZHANG, Lei;ZHANG, Ximei~ 33:CN ~31:202311195934.0 ~32:18/09/2023

2024/06955 ~ Complete ~54:MHC IB-MEDIATED MYELIN-SPECIFIC IMMUNOSUPPRESSION AS A NOVEL TREATMENT FOR MULTIPLE SCLEROSIS AND MOG ANTIBODY DISEASE ~71:Julius-Maximilians-Universität Würzburg, Sanderring 2, WÜRZBURG 97070, GERMANY, Germany ~72: AHSAN, Fadhil;BRUTTEL, Valentin;BRÜNNERT, Daniela;WISCHHUSEN, Jörg~ 33:EP ~31:22164122.8 ~32:24/03/2022

2024/06963 ~ Complete ~54:SILOXANE DERIVATIVES OF AMINO ACIDS HAVING SURFACE-ACTIVE PROPERTIES ~71:ADVANSIX RESINS & CHEMICALS LLC, 300 Kimball Drive, Suite 101, Parsippany, New Jersey, 07054, United States of America ~72: EDWARD ASIRVATHAM;HARSHITA KUMARI;KAVSSERY ANANTHAPADMANABHAN;MARZIEH MIRZAMANI;RAMANA MITTAPALLI~ 33:US ~31:63/313,115 ~32:23/02/2022

2024/06961 ~ Complete ~54:COMBINATION OF 5-AMINO-2,3-DIHYDRO-1,4-PHTHALAZINEDIONE AND A FUMARIC ACID ESTER ~71:METRIOPHARM AG, Europaallee 41, 8021, Zürich, Switzerland ~72: BEATE

LUDESCHER;FELIX BREMBECK;JÖRG VON WEGERER;SARA SCHUMANN;WOLFGANG BRYSCH~ 33:EP ~31:22000080.6 ~32:25/03/2022

#### - APPLIED ON 2024/09/11 -

2024/07008 ~ Complete ~54:METHOD OF TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT ~71:ROGACHEV Igor Petrovich, Pogonniy proezd, d. 3, k. 3, kv. 91, Moscow, 107564, Russian Federation ~72: ROGACHEV Igor Petrovich~ 33:RU ~31:2024118087 ~32:29/06/2024

2024/06977 ~ Complete ~54:METHOD FOR EXTRACTING ELECTROMAGNETIC PARAMETERS OF MATERIALS BASED ON MACHINE LEARNING GRADIENT DESCENT ALGORITHM ~71:THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU), No. 1, Duxue Road, Nansha District, Guangzhou, Guangdong, People's Republic of China ~72: Haitao Li;Xiaoxiao Wu~ 33:CN ~31:2024101017681 ~32:25/01/2024

2024/06983 ~ Complete ~54:SORGHUM EXTRACT GANODERMA ORIGINAL CULTURE MEDIUM AND PREPARATION METHOD ~71:SHANDONG VOCATIONAL COLLEGE, No. 23000, Jingshi East Road, Licheng District, People's Republic of China ~72: LV, Yinghui;YU, Leijuan;ZHANG, Daolei~

2024/06986 ~ Complete ~54:A NOVEL PROTEIN COMPOSITION AND THEIR USE IN FORMULATING DAIRY PRODUCTS ~71:PHYX44 LABS PRIVATE LIMITED, D 741, KRISHVI GAVAKSHI GEAR ROAD, BANGALORE, KARNATAKA, 560103, INDIA, India ~72: BAKARAJU, Bharath;CHAVAN, Sambhaji, Balkrushna;PATEL, Jyotsana;SETHIA, Piyush;UPPADA, Vanita;VARAVADEKAR, Jayesh Suman~ 33:SG ~31:10202202395T ~32:09/03/2022

2024/07007 ~ Complete ~54:LIVE MYCOPLASMA SYNOVIAE VACCINE ~71:University of Georgia Research Foundation, Inc., 210 South Jackson Street, 110 Terrell Hall, ATHENS 30602, GA, USA, United States of America ~72: FERGUSON-NOEL, Naola M.~ 33:US ~31:63/319,532 ~32:14/03/2022

2024/06972 ~ Complete ~54:PREPARATION METHOD FOR BIMETALLIC IRON-BASED CHITOSAN ADSORBENT AND APPLICATION OF REMOVING AS(III) IN WATER ~71:Shihezi University, No.221 Beisi Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Chang ZHOU;Hong XU;Jiankang WANG;Qingyuan TIAN;Shanshan MA;Xin LIU;Yaru WANG~

2024/06978 ~ Complete ~54:KIT FOR DETECTING CYTOCHROME P4502D6 METABOLIC ENZYME AND APPLICATION THEREOF ~71:Jilin Jiming Biotechnology Co., LTD, Room 103, Unit 2, Building 7, Phase I, FuoStanley Town, Jingyue Development Zone, Changchun City, Jilin Province, People's Republic of China ~72: Fu Yao;Liu Siyu;Liu Zongming;Ma Fangyan~ 33:CN ~31:202410332714.6 ~32:22/03/2024

2024/06980 ~ Complete ~54:ADJUSTABLE SERVE DEVICE FOR TABLE TENNIS TRAINING ~71:Hainan College of Economics and Business, Guilin Yang High School District, Meilan District, Haikou City, Hainan Province; ZIP:571127, People's Republic of China ~72: Chen Jicheng;Ji Jiawen;Li Xinhua;Liu Lin;Ren Cai;Ren Guangbo~

2024/06973 ~ Complete ~54:MANAGEMENT METHOD BASED ON DIGITAL TWIN MODELING FOR DRIP IRRIGATION PRODUCT PRODUCTION LINE ~71:Shihezi University, No. 22, Beisi Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832099, People's Republic of China ~72: CHEN, Kailiang;JIN, Peilin;LI, Pengbo;LI, Zhigang;NIU, Renzhong;WEI, Zhangliang;ZHAO, Xiaohui~ 33:CN ~31:202311328589.3 ~32:14/10/2023 2024/06987 ~ Complete ~54:BACILLOTA STRAINS WITH IMPROVED OUTGROWTH ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BORGMEIER, Claudia;DUSCH, Nicole;ERHARDT, Frank;GIATSIS, Christos;GIRADELLO, Jörg;GRÜPPEN, Anika;GÜNTHER, Christina;HAKKAART, Xavier;HÜSER, Andrea;PELZER, Stefan~ 33:EP ~31:22157248.0 ~32:17/02/2022

2024/07000 ~ Complete ~54:METHOD FOR OBTAINING FIRING PASTES IN AN ACOUSTIC RESONANCE MIXER ~71:EURENCO FRANCE SAS, 123 Allée de Brantes, 84700, Sorgues, France ~72: JULIE PEROUEL;NICOLAS MARONCELLI;SÉBASTIEN CUVELIER~ 33:FR ~31:FR2201299 ~32:15/02/2022

2024/07003 ~ Complete ~54:METHOD AND SYSTEM FOR PROVIDING A PLATFORM TO ENABLE SOCIAL COLLABORATION IN A SINGLE THREAD IN SEAMLESS MANNER ~71:Rajiv Singh, B-1403 Stellar Jeevan, Sector 1, Bisrakh Greater Noida West, Uttar Pradesh 201306, Noida, India ~72: Rajiv Singh~ 33:IN ~31:202211014941 ~32:17/03/2022

2024/07006 ~ Complete ~54:LIGAND GATED ION CHANNELS AND METHODS OF USE ~71:Trames Bio, Inc., 1111 Broadway #1300, OAKLAND 94607, CA, USA, United States of America ~72: CAIN, Corey J.;KEIFER JR., Orion P.;LAU, Anthony;MAKINSON, Stefanie;NAKA, Alexander~ 33:US ~31:63/311,735 ~32:18/02/2022;33:US ~31:63/348,560 ~32:03/06/2022

2024/06993 ~ Complete ~54:SCALED RESIDUAL FUNDAMENTAL BASS ENHANCEMENT ~71:THAT CORPORATION, 45 Sumner Street, Milford, United States of America ~72: DARR, Roger, R.~ 33:US ~31:63/283,678 ~32:29/11/2021

2024/07001 ~ Complete ~54:METHODS OF TREATING SOLID TUMOR USING (19R)-5-CHLORO-3-ETHYL-16-FLUORO-10,19-DIMETHYL-20-OXA-3,4,10,11,23-

PENTAAZAPENTACYCLO[19.3.1.02,6.08,12.013,18]PENTACOSA-1(24),2(6),4,8,11,13,15,17,21(25),22-DECAEN-22-AMINE ~71:NUVALENT, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: ANUPONG TANGPEERACHAIKUL;CHRISTOPHER DURANT TURNER;DARLENE NOCI;DAVID JAMES PEARSON;HENRY EFREM PELISH;JAMES R PORTER;JASON T KROPP;JENNIFER ANNE GREEN;JOHN R SOGLIA;VIOLA WEIJIA ZHU~ 33:US ~31:63/328,609 ~32:07/04/2022;33:US ~31:63/328,620 ~32:07/04/2022;33:US ~31:63/356,702 ~32:29/06/2022;33:US ~31:63/376,962 ~32:23/09/2022

2024/07004 ~ Complete ~54:FUSED BICYCLIC COMPOUND CONTAINING PYRROLINONE ~71:Chia Tai Tianqing Pharmaceutical Group Co., Ltd., No. 369 Yuzhou South Rd., LIANYUNGANG 222062, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: GAO, Yong;SHI, Wei;WANG, Chengqi;YIN, Yuan;ZHANG, Yinsheng~ 33:CN ~31:202210166821.7 ~32:23/02/2022;33:CN ~31:202211272746.9 ~32:18/10/2022;33:CN ~31:202310115154.4 ~32:14/02/2023

2024/07005 ~ Complete ~54:RNAI CONSTRUCTS FOR INHIBITING PNPLA3 EXPRESSION AND METHODS OF USE THEREOF ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: HOMANN, Oliver;MEADE, Bryan;MURRAY, Justin K.;RULIFSON, Ingrid~ 33:US ~31:63/322,845 ~32:23/03/2022

2024/06974 ~ Complete ~54:FLOW BATTERY AND COMPONENTS THEREOF ~71:UNIVERSITY OF MASSACHUSETTS, Office of General Counsel, One Beacon Street, 31st Floor, United States of America ~72: AGAR, Ertan;CAPPILLINO, Patrick, J.;HUANG, Haobo~ 33:US ~31:62/468,250 ~32:07/03/2017

2024/07002 ~ Complete ~54:DRUG DELIVERY SYSTEM COMPRISING AN AGENT EFFECTIVE IN THE TREATMENT OR PREVENTION OF AN ESOPHAGEAL DISEASE FOR THE APPLICATION TO ESOPHAGEAL

MUCOUS MEMBRANES ~71:ESOCAP AG, Malzgasse 9, Switzerland ~72: APPEL, Bettina;BROKMANN, Friederike;KRAUSE, Julius;MÜLLER, Sabine;ROSENBAUM, Christoph;WEIDE, Aileen;WEITSCHIES, Werner~ 33:EP ~31:22177671.9 ~32:07/06/2022;33:EP ~31:22213446.2 ~32:14/12/2022

2024/06979 ~ Complete ~54:COMPUTER NETWORK SECURITY SYSTEM BASED ON VIRTUALIZATION TECHNOLOGY ~71:Jilin Sport University, No. 2476 Freedom Road, Nanguan District, Changchun City, Jilin province, People's Republic of China ~72: Jiang Hongwei~

2024/06982 ~ Complete ~54:SHEET LIGHTING FOR PARTICLE DETECTION IN DRUG PRODUCT CONTAINERS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: FRADKIN, Dmitry;FREUND, Erwin;MILNE, Graham F.;PEARSON, Thomas Clark~ 33:US ~31:62/780,542 ~32:17/12/2018

2024/06984 ~ Complete ~54:EXPERIMENTAL METHOD FOR EVALUATING THE IMPACT OF NUTRIENTS ON GRAY JUJUBE WINE QUALITY ~71:SHANDONG VOCATIONAL COLLEGE, No. 23000, Jingshi East Road, Licheng District, People's Republic of China ~72: LIU, Guangpeng;LV, Yinghui;YU, Leijuan;ZHANG, Daolei~

2024/07010 ~ Complete ~54:1-METHYLCYCLOPROPENE SUBSTRATE ARRANGEMENT ~71:SUPERIOR SPECIAL PROJECTS (PTY) LTD, 24/28 Old Mill Road, South Africa ~72: Mark Thomas Gerald WILLIAMS~ 33:ZA ~31:2023/08844 ~32:19/09/2023

2024/07009 ~ Complete ~54:PHOTO SELECTIVE LIGHT BARRIER FILM ARRANGEMENT ~71:SUPERIOR SPECIAL PROJECTS (PTY) LTD, 24/28 Old Mill Road, South Africa ~72: Mark Thomas Gerald WILLIAMS~ 33:ZA ~31:2023/08843 ~32:19/09/2023

2024/06970 ~ Provisional ~54:DIRECTION BUDDY VISUAL DRIVING AID FOR LEARNER DRIVER ~71:Jean Myburgh, Pieter winterbach str, Mooikloof 20 c, Burgersfort, Limpopo, 1150, South Africa ~72: Jean Myburgh~

2024/06975 ~ Complete ~54:METHOD AND APPARATUS FOR PROCESSING HYSTERESIS DATA ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CAI, Jing;LI, Deying;LI, Qiuhong~

2024/06976 ~ Complete ~54:A CONVENIENT OUTDOOR SOIL CULTIVATION DEVICE FOR REGULATION ~71:Suzhou University, No. 1769 Xuefu Avenue, Education Park Campus, Suzhou City, Anhui Province, 234000, People's Republic of China ~72: Liu Jieyun;Qiu Husen~ 33:CN ~31:202311427284 .8 ~32:31/10/2023

2024/06971 ~ Provisional ~54:ANGLE TORQUE DISC ~71:Antony Czeslaw Falencikowski, 5 Commisioner street, South Africa ~72: Antony Czeslaw Falencikowski~

2024/06981 ~ Complete ~54:DEVICE FOR REMOVING BURRS OF RUBBER SEALING RING BASED ON VISUAL INSPECTION ~71:Yueyang Vocational Technical College, Xiangbei Avenue, Yueyanglou District, Yueyang City, Hunan Province, 414000, People's Republic of China ~72: Hu Wei~

2024/06985 ~ Complete ~54:FASTENING INSTRUMENT, MANUFACTURING METHOD THEREFOR, AND MEDICAL FASTENING DEVICE ~71:SHANGHAI LIGATECH BIOSCIENCE CO., LTD, 301, BUILDING 1, KINETIC MEDICAL PARK, 1807, HUAQING ROAD, QINGPU DISTRICT, SHANGHAI 201707, CHINA, People's Republic of China ~72: GE, Li;HUO, Hongya;LAI, Weiguo;WANG, Yuanqiang;ZHANG, Fengyu~ 33:CN ~31:202210260254.1 ~32:16/03/2022

2024/06988 ~ Complete ~54:MICROORGANISMS WITH REDUCED COMPETENCE ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72:

BORGMEIER, Claudia;DOMEYER, Jan-Eike;GRÜPPEN, Anika;GÜNTHER, Christina;HÜSER, Andrea;LENSCH, Alexandra;MOLCK, Stella;PELZER, Stefan;STANNEK-GÖBEL, Lorena~ 33:EP ~31:22157245.6 ~32:17/02/2022

2024/06989 ~ Complete ~54:SYNTHESIS OF MELAMINE POLYPHOSPHATE WITH LOW RESIDUAL MELAMINE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: EBERHARDT, Jan;ESCHE, Thomas;GUYON, Pascal~ 33:EP ~31:22157430.4 ~32:18/02/2022

2024/06990 ~ Complete ~54:BRIDGED TRICYCLIC CARBAMOYLPYRIDONE COMPOUNDS AND USES THEREOF ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: CHU, HANG;GONZALEZ BUENROSTRO, ANA Z.;HAN, XIAOCHUN;HURTLEY, ANNA E.;JIANG, LAN;LI, JIAYAO;SCHWARZWALDER, GREGG M.;SHIVAKUMAR, DEVLEENA M.;VON BARGEN, MATTHEW J.;WU, QIAOYIN;YANG, HONG~ 33:US ~31:63/328,061 ~32:06/04/2022;33:US ~31:63/476,873 ~32:22/12/2022

2024/06991 ~ Complete ~54:DRUG DELIVERY SYSTEM COMPRISING A REFLUX INHIBITOR FOR THE APPLICATION TO ESOPHAGEAL MUCOUS MEMBRANES ~71:ESOCAP AG, Malzgasse 9, Switzerland ~72: ROSENBAUM, Christoph;WEITSCHIES, Werner~ 33:EP ~31:22177670.1 ~32:07/06/2022

2024/06992 ~ Complete ~54:BELUMOSUDIL FOR TREATING CHRONIC LUNG ALLOGRAFT DYSFUNCTION ~71:KADMON CORPORATION, LLC, 55 Corporate Drive, Bridgewater, United States of America ~72: CUTLER, Corey S.;DEFILIPP, Zachariah Michael;KIM, Haesook T.~ 33:US ~31:63/332,628 ~32:19/04/2022;33:US ~31:63/389,444 ~32:15/07/2022

2024/06994 ~ Complete ~54:IONIZABLE CATIONIC LIPIDS AND LIPID NANOPARTICLES ~71:CAPSTAN THERAPEUTICS, INC., 9880 Campus Point Drive, Suite 220, United States of America ~72: KARMALI, Priya Prakash;TANIS, Steven~ 33:US ~31:63/362,501 ~32:05/04/2022;33:US ~31:63/366,462 ~32:15/06/2022;33:US ~31:63/489,381 ~32:09/03/2023

2024/06995 ~ Complete ~54:WATERPROOF EXTENSION SOCKET WITH ELECTRIC SURGE PROTECTION ~71:NINGYUANXIAN CYBERPOWER, INC, SHILIPU INDUSTRIAL PARK, SHUNDE COMMUNITY, DONGXI STREET, People's Republic of China ~72: HE, Xuexiang;LI, Wenhong;YANG, Qingling;ZHOU, Gejiao~ 33:CN ~31:202311304301.9 ~32:09/10/2023

2024/06996 ~ Complete ~54:ILT3 AND CD3 BINDING AGENTS AND METHODS OF USE THEREOF ~71:NGM BIOPHARMACEUTICALS, INC., 333 Oyster Point Boulevard, South San Francisco, California, 94080, United States of America ~72: ANJUSHREE R IYER;HONG YANG;JIE TANG;JULIE M RODA;KEITH AKAMA;LEE B RIVERA;RUJIN CHENG;VICKY YI-BING LIN~ 33:US ~31:63/325,101 ~32:29/03/2022;33:US ~31:63/386,634 ~32:08/12/2022

2024/06997 ~ Complete ~54:INHIBITORS OF THE MYST FAMILY OF LYSINE ACETYL TRANSFERASES ~71:ISOSTERIX, INC., 237 Clifton Ave. San Carlos, California, 94070, United States of America ~72: MARK BURES;ROOPA RAI~ 33:US ~31:63/324,619 ~32:28/03/2022;33:US ~31:63/324,624 ~32:28/03/2022;33:US ~31:63/476,826 ~32:22/12/2022

2024/06998 ~ Complete ~54:SOLID FORMS, PHARMACEUTICAL COMPOSITIONS AND PREPARATION OF HETEROAROMATIC MACROCYCLIC ETHER COMPOUNDS ~71:NUVALENT, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: ARKESH NARAYANAPPA;BAUDOUIN GERARD;BENJAMIN STEPHEN LANE;CHRISTOPHER G. F COOPER;DAVID JAMES PEARSON;JASON T KROPP;JOSHUA COURTNEY HORAN;LAUREN ASHLEY MACEACHERN;MANDEEP SINGH;YAMENG HE~ 33:US ~31:63/328,609 ~32:07/04/2022 2024/06999 ~ Complete ~54:SNCA-TARGETING SIRNA COMPOSITIONS FOR TREATING SNCA-ASSOCIATED DISEASE ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;JOSEPH BARRY;KAWAI SO;LAN THI HOANG DANG;MARK K SCHLEGEL;TUYEN NGUYEN~ 33:US ~31:63/326,770 ~32:01/04/2022;33:US ~31:63/326,813 ~32:02/04/2022

- APPLIED ON 2024/09/12 -

2024/07015 ~ Complete ~54:HIGH-THROUGHPUT SEQUENCING PRIMER PAIR FOR SYNCHRONOUSLY DETECTING LIVESTOCK AND FISH SPECIES AND APPLICATION THEREOF ~71:CHINA JILIANG UNIVERSITY, 258 Xueyuan Street, Qiantang District, Hangzhou City, People's Republic of China;ZHOUSHAN FOOD AND DRUG INSPECTION AND TESTING INSTITUTE, No.49, Honglu Avenue, Beichen New Port Development Zone, Dinghai District, Zhoushan City, People's Republic of China ~72: CHEN, Xiang;DING, Siling;GUAN, Feng;HUANG, Zhuliang;LIU, Ting;XU, Aichun;ZHAO, Qiaoling;ZHOU, Yong~ 33:CN ~31:2023112142657 ~32:19/09/2023

2024/07022 ~ Complete ~54:APPARATUS, SYSTEMS, AND METHODS FOR COUPLING TOOLS TO DRILL RIGS ~71:VERACIO LTD., 2455 South 3600 West, United States of America ~72: CASE, Michael;LACHANCE, Anthony;TOMASZEWSKI, Adam~ 33:US ~31:63/310,661 ~32:16/02/2022

2024/07024 ~ Complete ~54:PHARMACEUTICAL RECOMBINANT HUMAN ACID SPHINGOMYELINASE COMPOSITIONS AND METHODS ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: BROWER, Kevin;JIN, Xiaoying;WASYLENKO, Thomas M.~ 33:US ~31:63/321,636 ~32:18/03/2022

2024/07034 ~ Complete ~54:PRODRUGS OF GANAXOLONE ~71:Marinus Pharmaceuticals, Inc., 5 Radnor Corporate Center, Suite 500, 100 Matsonford Road, RADNOR 19087, PA, USA, United States of America ~72: BINDER, Randall Jeffrey;REITZ, Allen B.;SAUSKER, Justin Barrett;TICE, Colin M.;WROBEL, Jay E.~ 33:US ~31:63/321,302 ~32:18/03/2022;33:US ~31:63/392,878 ~32:28/07/2022;33:US ~31:63/485,657 ~32:17/02/2023

2024/07041 ~ Complete ~54:METHOD OF REDUCING CST FLUCTUATION IN NEOVASCULAR AMD BY A RECOMBINANT ADENO-ASSOCIATED VIRUS ~71:ADVERUM BIOTECHNOLOGIES, INC., 100 Cardinal Way, Redwood City, California, 94063, United States of America ~72: ADAM TURPCU;JOANNA DO~ 33:US ~31:63/310,865 ~32:16/02/2022;33:US ~31:63/316,705 ~32:04/03/2022

2024/07023 ~ Complete ~54:SLEEP THERAPY ~71:JOHN HEMMING TRADING LTD, 78 Alcester Road, United Kingdom ~72: HEMMING, John~ 33:GB ~31:2204443.2 ~32:29/03/2022

2024/07026 ~ Complete ~54:SIRP-ALPHA FUSION POLYPEPTIDES WITH MODIFIED FC DOMAINS ~71:BITTERROOT BIO, INC., 3160 Porter Drive, Suite 200, United States of America ~72: VOLKMER, Jens-Peter~ 33:US ~31:63/323,417 ~32:24/03/2022

2024/07029 ~ Complete ~54:MONITORING DEVICE ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KRUGER, Michiel Jacobus;LO, Cory;YATES, Marinus~ 33:ZA ~31:2022/02886 ~32:10/03/2022

2024/07032 ~ Complete ~54:A FUNGICIDE CONTAINING FLUDIOXONIL AND ITS PREPARATION METHOD ~71:Hebei Chemical & Pharmaceutical College, 88 Fangxing Road, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: Ding Yue~ 33:CN ~31:202410414364.8 ~32:08/04/2024

2024/07037 ~ Complete ~54:WHEEL ASSEMBLY INCLUDING INBOARD AND OUTBOARD FLANGES DEFINING MECHANICAL STOPS AND RELATED METHODS ~71:GACW Incorporated, 3100 West Ray Road, Suite 201, CHANDLER 85226, AZ, USA, United States of America ~72: KEMENY, Zoltan~ 33:US ~31:17/693,378 ~32:13/03/2022

2024/07038 ~ Complete ~54:WHEEL ASSEMBLY INCLUDING GAS SPRING PISTON BIASING MEMBER AND RELATED METHODS ~71:GACW Incorporated, 3100 West Ray Road, Suite 201, CHANDLER 85226, AZ, USA, United States of America ~72: KEMENY, Zoltan~ 33:US ~31:17/693,380 ~32:13/03/2022

2024/07012 ~ Complete ~54:METHOD AND SYSTEM FOR STUDYING STABILITY OF VEGETATION SYSTEM BASED ON VEGETATION INDEXES ~71:CHINA UNIVERSITY OF GEOSCIENCES (WUHAN), 388 Lumo Road, Hongshan District, Wuhan City, People's Republic of China ~72: DUAN, Ying;FENG, Haibo;HOU, Qingqiu;LI, Zhongxia;ZHENG, Xiaoming;ZHOU, Jianwei~

2024/07018 ~ Complete ~54:A METHOD FOR OBSERVING THE GROWTH OF ARBOR SPECIES ~71:Jilin Provincial Academy of Forestry Sciences (Jilin Forestry Biological Control Center Station), No. 3528, Linhe Street, Economic and Technological Development Zone, Changchun City, Jilin Province, 130000, People's Republic of China ~72: Huanyu Dong;Jing Tao;Shigang Chen;Siyu Chen;Yang Zhang;Zhenhua Ma~ 33:CN ~31:202411222943.9 ~32:02/09/2024

2024/07020 ~ Complete ~54:A DUAL PERISTALTIC PUMP ~71:Resolve Biotech Private Limited, 4th FLOOR, 39-B, JET PRIME, SUREN RAOD, ANDHERI EAST, Mumbai, Maharashtra, 400093, India ~72: Harsh Doshi;RAM KHANNA~ 33:IN ~31:202321062277 ~32:15/09/2023

2024/07031 ~ Complete ~54:A PREPARATION METHOD FOR A HERBICIDAL COMPOSITION CONTAINING TEMBOTRIONE ~71:Hebei Chemical & Pharmaceutical College, 88 Fangxing Road, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: Ding Yue~ 33:CN ~31:202410226398.4 ~32:29/02/2024

2024/07042 ~ Complete ~54:A METHOD FOR ARRANGING MICROSPHERES IN A NON-AQUEOUS LIQUID PHASE ~71:BLINK AG, Brüsseler Str. 20, Germany ~72: BOCKER, Hartmut;ERMANTRAUT, Eugen;LONCAREVIC BARCENA, Ivan;SCHULZ, Torsten;WAGNER, Cornelius;WOLFF, Alrik~ 33:EP ~31:22165559.0 ~32:30/03/2022

2024/07013 ~ Complete ~54:METHOD OF MANUFACTURING A MULLION PROFILE FOR A WINDOW FRAME ~71:AVAX SA 407 CC, Unit 16, Pine Industrial Estate, Escom Road, New Germany, South Africa ~72: COETZEE, Quentin~

2024/07025 ~ Complete ~54:PROCESSES FOR THE PREPARATION OF SUBSTITUTED SPIROOXINDOLE DERIVATIVES ~71:ENANTA PHARMACEUTICALS, INC., 500 Arsenal Street, United States of America ~72: CAO, Hui;GAO, Xuri;LI, Wei;OR, Yat Sun;PENG, Xiaowen;SHEN, Ruichao;WANG, Guoqiang;WANG, Tao;WU, George G.;ZHANG, Jiajun;ZHANG, Xin;ZHU, Kaicheng~ 33:US ~31:63/321,244 ~32:18/03/2022

2024/07028 ~ Complete ~54:VERTICALLY-INTEGRATED COMBINED FARMING AND FOOD-DISTRIBUTION SYSTEM AND METHOD ~71:JEPHCOTT, David Lynton, 18, Trentway Close, Bucknall, Stoke-on-Trent, Staffordshire, ST2 9JR, United Kingdom ~72: JEPHCOTT, David Lynton~ 33:GB ~31:2116356.3 ~32:12/11/2021

2024/07033 ~ Complete ~54:A METHOD OF PREPARING A FUNGICIDE CONTAINING PROTHIOCONAZOLE ~71:Hebei Chemical & Pharmaceutical College, 88 Fangxing Road, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: Ding Yue~ 33:CN ~31:202410118944.2 ~32:29/01/2024

2024/07011 ~ Provisional ~54:LIQUID LINER ARRANGEMENT ~71:VORTEX INNOVATION WORX (PTY) LTD, 4 Paddy Close, South Africa ~72: Calvin VAN DER WESTHUIZEN;Ryan FOWLER~

2024/07016 ~ Complete ~54:WU QIN XI LEARNING AND EXERCISE SIMULATION SYSTEM ~71:Anhui University of Chinese Medicine, Anhui University of Chinese Medicine (Shaoquanhu Campus), 350 Longzihu Road, Xinzhan District, Hefei City, Anhui Province, 230012, People's Republic of China ~72: WANG, Yue~

2024/07017 ~ Complete ~54:A KIND OF SOLID WASTE ASPHALT MIXTURE VIBRATION CONSTANT TEMPERATURE OVERTURNING VIBRATION EQUIPMENT ~71:Guangxi China Railway Nanheng Expressway Co., Ltd, No. 3 Jingchun Road, Nanning Liujing Industrial Park (Technology Enterprise Incubation Center) and Room 1009, Kai Science and Technology Park Production Building, Nanning City, Guangxi Zhuang Autonomous Region, 530200, People's Republic of China;Guangxi University, School of Civil and Architectural Engineering, Guangxi University, Xixiangtang District, Nanning City, Guangxi Zhuang Autonomous Region, 530004, People's Republic of China ~72: Aimin FAN;Anbin SHEN;Bo XIE;Feng ZHANG;Jianfeng LIAO;Meng WEI;Pan RAN;Peng GUO;Shengli WANG;Shifeng ZHU;Shijie JIA;Songsuo SHEN;Wanbo ZHONG;Wenguo HUANG;Xing ZHENG;Xuening ZHOU;Yao WANG;Yunya PING~

2024/07019 ~ Complete ~54:A RADIOACTIVE PARTICLE IMPLANTER AND MULTI-ANGLE PARTICLE IMPLANTATION DEVICE ~71:HAINAN CANCER HOSPITAL, No.9, Changbin West 4th Street, Xiuying District, Haikou City, Hainan Province, 570312, People's Republic of China ~72: Jintang Huang;Shixin Gao;Zhiheng Wang~

2024/07036 ~ Complete ~54:CANCER DIAGNOSTICS AND TREATMENT BY MEANS OF PRMT5 INHIBITOR ~71:Argonaut Therapeutics Limited, The Magdalen Centre, Oxford Science Park, Robert Robinson Avenue, OXFORD OX4 4GA, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: LA THANGUE, Nicholas;MUNRO, Shonagh~ 33:GB ~31:2203588.5 ~32:15/03/2022

2024/07014 ~ Complete ~54:A BINDER FOR AN ORAL PHARMACEUTICAL COMPOSITION ~71:PILLAY, Suntheran, 3 Unicorn Place, The Gardens, South Africa ~72: PILLAY, Suntheran~

2024/07021 ~ Complete ~54:ELECTRONIC DEVICE COMPRISING ANTENNA ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHANKYU AN;HIMCHAN YUN;JAEBONG CHUN;NAKCHUNG CHOI;SOONHO HWANG;SUNGKOO PARK~ 33:KR ~31:10-2020-0166365 ~32:02/12/2020

2024/07027 ~ Complete ~54:SFCC240912 ~71:ZHANG, Tiankai, No.71 Chencun Village, Jianshan Town, Pan 'an County, Jinhua, Zhejiang, People's Republic of China ~72: ZHANG, Tiankai~

2024/07030 ~ Complete ~54:AN ELECTROCHEMICAL PROCESS FOR RECOVERING PLATINUM GROUP METALS (PGMS) FROM SOLID RESIDUES ~71:FUNDACION TECNALIA RESEARCH & INNOVATION, Parque Científico y Tecnológico de Bizkaia Astondo Bidea, Edificio 700, Spain ~72: ANDRÉS GARCÍA, Elisabet;BELAUSTEGUI ITUARTE, Yolanda;DEL RÍO GAZTELURRUTIA, Carmen;HIDALGO BETANZOS, Joaquin;MARTIN UGARTE, Eider;POZO ZAMORA, Guillermo Alonso;SIRIWARDANA, Amal Inoka;UNZURRUNZAGA ITURBE, Ainhoa~ 33:EP ~31:22382212.3 ~32:08/03/2022

2024/07035 ~ Complete ~54:IMPROVED LUMINAIRE HEAD FOR MOUNTING ON A POLE ~71:SCHREDER S.A., Rue de Lusambo 67, BRUSSELS 1190, THE NETHERLANDS, Netherlands ~72: BUDAVARI, Peter;HORVÁTH, Csaba;JANKI, Zoltán;SZÜGYI, János Péter~ 33:NL ~31:2031087 ~32:25/02/2022

2024/07039 ~ Complete ~54:NLRP3 MODULATORS ~71:ZOMAGEN BIOSCIENCES LTD, 12790 EI Camino Real, Suite 200, United States of America ~72: BOLLU, Venkat;COLLINS, James;NUSS, John;YUAN, Shendong~ 33:US ~31:63/320,157 ~32:15/03/2022;33:US ~31:63/356,415 ~32:28/06/2022

2024/07040 ~ Complete ~54:CRISPR-CAS13 SYSTEM AND USE THEREOF ~71:GUANGZHOU REFORGENE MEDICINE CO., LTD., No. 131-150 And No. 231-250 In Building H6, No. 101-120 And No. 201-220 In Building H7, No. 39 Ruihe Road, Huangpu District, Guangzhou, Guangdong, 51053, People's Republic of China;ZHEJIANG SYNSORBIO TECHNOLOGY CO., LTD, Room 211-3, Building 1, 21 Haitian Road, Binhai New Area, Shaoxing, Zhejiang, 312300, People's Republic of China ~72: DESHENG HUANGFU;HUI XU;JUNBIN LIANG;KAIWEI SI;QIUTING LI;XINGXIANG LIANG;YANG SUN;ZHIQIN PENG~ 33:CN ~31:202211035342.8 ~32:26/08/2022;33:CN ~31:202310457880.4 ~32:24/04/2023

- APPLIED ON 2024/09/13 -

2024/07077 ~ Complete ~54:SARM1 RNA INTERFERENCE AGENTS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BABB, Nicholas Alan;HERNANDEZ BUQUER, Selene;KAESER-WOO, Yea Jin;LACKNER, Gregory Lawrence;MILES, Rebecca Ruth;PERKINS, Douglas Raymond;WANG, Jibo;WANG, Yaming~ 33:US ~31:63/319,459 ~32:14/03/2022

2024/07063 ~ Complete ~54:TANGERETIN NANOLIPOSOME FREEZE-DRIED FORMULATION AND PREPARATION METHOD THEREFOR ~71:THE THIRD AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL UNIVERSITY(GUANGZHOU MEDICAL CENTER FOR CRITICAI PREGNANT WOMEN;GUANGZHOU ROUJI HOSPITAL), No.63 Duobao Road, Liwan District, Guangzhou, Guangdong, People's Republic of China ~72: Hongliang HUANG;Senling FENG;Yingying DUAN;Zhongwen YUAN~ 33:CN ~31:202310479618X ~32:28/04/2023

2024/07067 ~ Complete ~54:EXTRUSION BLOW MOLDING MACHINE ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, 6971, Hard, Austria ~72: CHRISTIAN PREISS;JOACHIM BRAUN~ 33:CH ~31:CH000310/2022 ~32:23/03/2022

2024/07071 ~ Complete ~54:TOMATO PLANT RESISTANT TO TOMATO SPOTTED WILT VIRUS ~71:ENZA ZADEN BEHEER B.V., Haling 1 E, 1602 DB, Enkhuizen, Netherlands ~72: GEERT JOHANNES DE BOER;HILLE-JAN VAN ZWOL;MARIEKE YKEMA;SERGIO DE LA FUENTE VAN BENTEM~

2024/07091 ~ Complete ~54:SUPPORTING STRUCTURE OF BEAM-COLUMN TYPE BRACKET FOR BRIDGE CONSTRUCTION ~71:HEILONGJIANG PROVINCIAL HIGHWAY CONSTRUCTION CENTER, NO. 113, ZHONGSHAN ROAD, People's Republic of China;HEILONGJIANG TRANSPORTATION PLANNING AND DESIGN INSTITUTE GROUP CO., LTD., NO. 90, QINGBIN ROAD, NANGANG DISTRICT, People's Republic of China;NORTHEAST FORESTRY UNIVERSITY, NO. 26, HEXING ROAD, XIANGFANG DISTRICT, People's Republic of China ~72: LI, Wei;WANG, Lifeng;XIAO, Ziwang;ZHOU, Qiuhong~

2024/07081 ~ Complete ~54:ELECTRODES FOR ALUMINUM ELECTROLYSIS CELLS AND METHODS OF MAKING THE SAME ~71:Alcoa USA Corp., 201 Isabella Street, PITTSBURGH 15212-5858, PA, USA, United States of America ~72: MCMILLEN, James C.;MOSSER, Benjamin D.;SWORTS, Lance M.~ 33:US ~31:63/319,903 ~32:15/03/2022

2024/07068 ~ Complete ~54:IRRIGATION SYSTEM INCLUDING ELECTRONIC INDEPENDENT OBSERVER INTEGRATION WITH FERTIGATION SYSTEM ~71:HEARTLAND AG TECH, INC., 907 3rd Avenue Hancock, Wisconsin, 54943, United States of America ~72: JEREMIE PAVELSKI;ROBERT BUCHBERGER;RUSSELL SANDERS~ 33:US ~31:63/325,798 ~32:31/03/2022

2024/07073 ~ Complete ~54:POLYMERASES, COMPOSITIONS, AND METHODS OF USE ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: CHRIS GARCIA;ERIC MURTFELDT;HAMED TABATABAEI GHOMI;HSU MYAT NOE;HUMBERTO ROJO;JIAWEN LI;JING WEN LIM;KAY KLAUSING;LIN HUI CHANG;MISHA GOLYNSKIY;RAHMAN RAHMAN POUR;RYAN CRAIG;SAURABH NIRANTAR;YVONNE DEVADAS~ 33:US ~31:63/412,241 ~32:30/09/2022;33:US ~31:63/433,971 ~32:20/12/2022

2024/07084 ~ Complete ~54:COMPOSITION COMPRISING CYTIDINE ANALOGS AND USES AND METHODS THEREOF ~71:UNIVERSITÄT HEIDELBERG, Grabengasse 1, Germany ~72: LANGGUTH, Peter;PRIGGE, Elena;UEBBING, Lukas;VON KNEBEL DÖBERITZ, Magnus~ 33:EP ~31:22169454.0 ~32:22/04/2022

2024/07080 ~ Complete ~54:METHOD AND SYSTEM FOR MANUFACTURING GLASS ~71:Owens-Brockway Glass Container Inc., One Michael Owens Way, PERRYSBURG 43551, OH, USA, United States of America ~72: CLICK, Carol;TOWNSEND, Casey~ 33:US ~31:17/693,524 ~32:14/03/2022

2024/07085 ~ Complete ~54:CELL CULTURE METHODS ~71:THE UNIVERSITY OF MASSACHUSETTS, One Beacon Street, 31st Floor, United States of America ~72: HOANG, Duc;KUANG, Bingyu;YOON, Seongkyu~ 33:US ~31:17/671,029 ~32:14/02/2022

2024/07052 ~ Complete ~54:BRIDGE IMPACT EXPERIMENTAL DEVICE ~71:Chuzhou University, No. 2 Langya West Road, Chuzhou City, Anhui Province, 239000, People's Republic of China ~72: Gu Jianfeng;Liu Yufeng;Qu Hao~ 33:CN ~31:202411012281.2 ~32:26/07/2024

2024/07053 ~ Complete ~54:METHODS OF TREATMENT WITH S1P RECEPTOR MODULATORS ~71:PRIOTHERA LIMITED, 88 Harcourt Street, Ireland;PRIOTHERA SAS, 57 avenue du Général de Gaulle, France ~72: BUCHER, Christoph;DERTSCHNIG, Simone~ 33:IB ~31:PCT/IB2021/000033 ~32:28/01/2021;33:EP ~31:21199256.5 ~32:27/09/2021

2024/07061 ~ Complete ~54:COMBINATION TREATMENT ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany;IP2IPO INNOVATIONS LIMITED, 2nd Floor 3 Pancras Square, Kings Cross, United Kingdom ~72: ALTON, Eric;BOYD, Christopher;DAVIES, Jane;GILL, Deborah;GRIESENBACH, Uta;HYDE, Stephen;KREUZ, Sebastian;MCLACHLAN, Gerry;MOISEENKO, Alena;SERGIJENKO, Ana~ 33:GB ~31:2205317.7 ~32:11/04/2022;33:GB ~31:2212566.0 ~32:30/08/2022

2024/07065 ~ Complete ~54:AQUEOUS HARD SURFACE CLEANING FORMULATION ~71:DOW GLOBAL TECHNOLOGIES LLC, 2211 H.H. Dow Way, United States of America;ROHM AND HAAS COMPANY, 400 Arcola Road, United States of America ~72: BACKER, Scott;JAYARAMAN, Ashish;KARIKARI, Afua Sarpong;MILLER, Daniel S.~ 33:US ~31:63/320,724 ~32:17/03/2022

2024/07074 ~ Complete ~54:COMBINATION THERAPIES FOR TREATMENT OF CANCER COMPRISING B7-H4 ANTIBODY DRUG CONJUGATE ~71:MedImmune Limited, 1 Francis Crick Avenue, Cambridge Biomedical Campus, CAMBRIDGE CB2 0AA, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: CHESEBROUGH, Jon;COOK, Kimberly;KINNEER, Krista Lynne;LEO, Elisabetta;TOSTO, Frances Anne~ 33:US ~31:63/310,967 ~32:16/02/2022;33:US ~31:63/378,295 ~32:04/10/2022

2024/07056 ~ Complete ~54:TEST DEVICE ~71:ZHEJIANG ORIENT GENE BIOTECH CO.,LTD, No.3787, East Yangguang Avenue, Dipu Street, People's Republic of China ~72: FANG, Jianqiu;LEI, Siyu;SHEN, Lili~ 33:CN ~31:2024103980611 ~32:02/04/2024

2024/07066 ~ Complete ~54:PHYTO-ANALYSIS SENSOR ~71:PLANTVOICE SRL SB, Via A. Volta 13/A c/o NOI S.P.A. A1/1.28D, Italy ~72: Matteo BECCATELLI;Tommaso BECCATELLI~ 33:IT ~31:102022000005294 ~32:19/03/2022

2024/07069 ~ Complete ~54:BUILDING MATERIAL ~71:POPLAC DEVELOPMENT S.L., Catedrático Escardino (parque científico. edificio 3), 9, 46980 Paterna (VALENCIA), Spain ~72: ASUNCIÓN ANA BLASCO LAHIGUERA~ 33:ES ~31:P202230262 ~32:23/03/2022;33:EP ~31:22187705.3 ~32:29/07/2022

2024/07072 ~ Complete ~54:MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALEXANDER RUSSELL ABELA;CHRISTOPHER COOK;FABRICE JEAN DENIS PIERRE;HARIPADA KHATUYA;JASON MCCARTNEY;JEREMY J CLEMENS;JINGLAN ZHOU;JOHNNY UY;MARK THOMAS MILLER;SARA SABINA HADIDA RUAH;THOMAS CLEVELAND;TIMOTHY RICHARD COON~ 33:US ~31:63/328,097 ~32:06/04/2022;33:US ~31:63/393,405 ~32:29/07/2022

2024/07076 ~ Complete ~54:RUBBER COMPOSITION FOR AN INNER LINER FOR PNEUMATIC VEHICLE TYRES ~71:SunCoal Industries GmbH, Rudolf-Diesel-Strasse 15, LUDWIGSFELDE 14974, GERMANY, Germany ~72: SCHMAUCKS, Gerd;SCHWAIGER, Bernhard;STÜCKER, Alexander~ 33:EP ~31:22163525.3 ~32:22/03/2022

2024/07044 ~ Provisional ~54:ATTRIBUTING DIGITAL ACTIVITY INITIATED FROM ONE OR MORE INSTANCES OF AN APPLICATION WITH A RECORD ~71:ENTERSEKT INTERNATIONAL LIMITED, Level 3, Alexander House, 35 Cybercity, Mauritius ~72: OOSTHUIZEN, Gerhard Gysbert~

2024/07045 ~ Provisional ~54:AUTHENTICATION OF A REQUESTED ACTION FOR ACCOUNT SECURITY ~71:ENTERSEKT INTERNATIONAL LIMITED, Level 3, Alexander House, 35 Cybercity, Mauritius ~72: OOSTHUIZEN, Gerhard Gysbert~

2024/07047 ~ Provisional ~54:WATERMARKING LIVE VIDEO STREAMS ~71:CUSTOS MEDIA TECHNOLOGIES RF (PTY) LTD, 15 de Beer Street, South Africa ~72: SALOTTO, Antony;VAN ROOYEN, Gert-Jan~

2024/07050 ~ Complete ~54:CONSTANT FALSE ALARM RATE TARGET DETECTION METHOD BASED ON AUTOMATIC CENSORING ~71:Anhui Polytechnic University, Beijin Road, Wuhu City, Anhui Province, 241000, People's Republic of China;Electronic Radar (Wuhu) Technology CO.,Ltd, No.156, Wanchun Middle Road, Jiujiang Zone, Wuhu City, Anhui Province, 241000, People's Republic of China;Yangtze River Delta HIT Robot Technology Research Institute, No. 17, Shenzhou Road, Jiujiang Zone, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: CHEN Shuang;LIU Guiru;SUN Jian;WANG Lulin;WANG Wei~

2024/07051 ~ Complete ~54:AN UNMANNED AERIAL VEHICLE ~71:JOHANNES ALBERTUS LOUBSER BEYERS, 4 Bougainville Avenue, Newlands, Cape Town, Western Cape, South Africa ~72: JOHANNES ALBERTUS LOUBSER BEYERS~ 33:GB ~31:2403764.0 ~32:15/03/2024

2024/07054 ~ Complete ~54:SYSTEM AND METHOD OF DYNAMIC CORRECTIVE ENZYME SELECTION AND FORMULATION FOR PULP AND PAPER PRODUCTION ~71:BUCKMAN LABORATORIES INTERNATIONAL, INC., 1256 North McLean Boulevard, United States of America ~72: CARTER, John;LI, Feiran;REED, Mark~ 33:US ~31:63/125,250 ~32:14/12/2020

2024/07057 ~ Complete ~54:SWITCHGEAR DUCT ~71:EATON INTELLIGENT POWER LIMITED, Eaton House, Ireland ~72: Johan DE JONG;Kaushik Naidu KONA;Minal WAGHMORE;Rushikesh Bhagvat SOLASE;Vishal

Suryakant PAWAR;Yvette PETERMAN-GUNTHER~ 33:IN ~31:202311061532 ~32:13/09/2023;33:GB ~31:2316646.5 ~32:13/10/2023

2024/07059 ~ Complete ~54:HERB PULVERIZING DEVICE FOR TRADITIONAL CHINESE MEDICINE ~71:Hebei Chemical & Pharmaceutical College, No. 88, Fangxing Road, Yuhua District, Shijiazhuang City, Hebei Province, People's Republic of China ~72: Lin WANG~

2024/07079 ~ Complete ~54:INHIBITORS OF RNA HELICASE DHX9 AND USES THEREOF ~71:Accent Therapeutics, Inc., 1050 Waltham Street, LEXINGTON 02421, MA, USA, United States of America ~72: CASTRO, Jennifer;DANIELS, Matthew H.;DUNCAN, Kenneth W.;JENNINGS, Andrew J.;LEE, Young-tae;MILLS, James Edward John;RIBICH, Scott;SICKMIER, Ernest Allen;SPARLING, Brian Andrew;TASKER, Andrew Stewart;WHITLOCK, Gavin~ 33:US ~31:63/309,917 ~32:14/02/2022

2024/07082 ~ Complete ~54:DECANTER CENTRIFUGE WITH LAMELLAE FOR IMPROVED FINES RECOVERY ~71:FLSmidth A/S, Vigerslev Allé 77, VALBY 2500, DENMARK, Denmark ~72: STARR, David~ 33:US ~31:63/320,045 ~32:15/03/2022

2024/07055 ~ Complete ~54:PRIMER-PROBE SET FOR SYNCHRONOUSLY DETECTING EIGHT KINDS OF ANIMAL MILK-DERIVED COMPONENTS AND ITS APPLICATIONS, GENE MEMBRANE CHIP AND PREPARATION METHOD ~71:CHINA JILIANG UNIVERSITY, 258 Xueyuan Street, Qiantang District, Hangzhou City, People's Republic of China;TAIZHOU FOOD AND DRUG INSPECTION INSTITUTE, No.788 Donghai Avenue, Jiaojiang District, Taizhou City, People's Republic of China ~72: GE, Jian;GUAN, Feng;HUANG, Yafang;MA, Xinyu;PAN, Yingqiu;XIA, Huil;YANG, Siyu~ 33:CN ~31:2024101859995 ~32:20/02/2024

2024/07058 ~ Complete ~54:METHOD FOR PRODUCING HALOAMINES AND HALOAMINE SOLUTIONS ~71:BUCKMAN LABORATORIES INTERNATIONAL, INC., 1256 North McLean Boulevard, United States of America ~72: KUZNETSOV, Dimitri;LAUNAY, Bruno;MCNEEL, Thomas~ 33:US ~31:62/773,819 ~32:30/11/2018

2024/07062 ~ Complete ~54:COMPOSITIONS COMPRISING MODIFIED ANELLOVIRUS CAPSID PROTEINS AND USES THEREOF ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: ARZE, Cesar Augusto;COHEN, Noah Robert;DELAGRAVE, Simon;HAJJAR, Roger, Joseph;KHAN, Amir;LIOU, Shu-Hao;SWANSON, Kurt Adam;YOZWIAK, Nathan, Lawrence~ 33:US ~31:63/344,019 ~32:19/05/2022;33:US ~31:63/387,337 ~32:14/12/2022

2024/07048 ~ Complete ~54:EFFICIENT AND HIGH FIDELITY CORE EXTRACTION METHOD FOR WEAK ROCK MASSES ~71:Guangxi Communications Design Group Co., Ltd., No. 153 Minzu Avenue, Qingxiu District, Nanning City, Guangxi Zhuang Autonomous Region, 530000, People's Republic of China;Guangxi Xinfazhan Communications Group Co., Ltd., 18th Floor, Xinfazhan Building, No. 39 Yunjing Road, Qingxiu District, Nanning City, Guangxi Zhuang Autonomous Region, 530025, People's Republic of China;Shanghai Baoye Group Corp., Ltd., No. 2457 Fuyuan Road, Baoshan District, Shanghai, 201908, People's Republic of China;Tongji University, No. 1239 Siping Road, Yangpu District, Shanghai, 200092, People's Republic of China ~72: CHEN Chuan;JIAO Wencan;LAI Zengwei;LI Mingzhi;LI Yishan;LI Zongwen;LIANG Lan;LIU Xianlin;LYU Xilin;SHAO Yu;TANG Zhenghui;XU Kefeng;YU Dabian;ZHANG Hai;ZHU Changgen~ 33:CN ~31:2024110025282 ~32:25/07/2024

2024/07049 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING ACETOMINOPHEN AND IBUPROFEN ~71:AFT PHARMACEUTICALS LIMITED, Level 1, 129 Hurstmere Road PO Box 33-203 Takapuna, New Zealand ~72: CALLAHAN, Matt;MURPHY, Maura~ 33:US ~31:16/287,836 ~32:27/02/2019

2024/07060 ~ Complete ~54:METHODS OF PROCESSING A FLUID ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, United States of America ~72: COOLBAUGH, Michael;MALLADI, Shashi~ 33:US ~31:63/322,133 ~32:21/03/2022

2024/07064 ~ Complete ~54:A FENCE POST ~71:GALLAGHER GROUP LIMITED, c/o Level 12, KPMG Centre 85 Alexandra Street, New Zealand ~72: WADE, Robert Andrew~ 33:NZ ~31:785236 ~32:18/02/2022

2024/07070 ~ Complete ~54:SULFONAMIDO DERIVATIVES AS CYCLIN-DEPENDENT KINASE 2 INHIBITORS ~71:NIKANG THERAPEUTICS, INC., 200 Powder Mill Road, BLDG E500, Wilmington, Delaware, 19803, United States of America ~72: YAN LOU~ 33:US ~31:63/362,036 ~32:28/03/2022

2024/07043 ~ Provisional ~54:COMPUTER SYSTEM AND METHOD FOR MANAGING RISK WITHIN PAYMENT TRANSACTIONS ~71:BlckRhino Technologies (Pty) Ltd., Unit 9, Time Business Park, 37 Blaauwberg Str, BLOUBERGSTRAND, Cape Town 7441, Western Cape, SOUTH AFRICA, South Africa ~72: LAPERE, Michael~

2024/07046 ~ Provisional ~54:COLLARING, CONTROLLING AND GUIDING DEVICE ~71:DWAYN VAN ASWEGEN, 397 Hex River Lifestyle Estate, Rustenburg, 0299, South Africa;LUKE MORNAY SWART, 397 Hex River Lifestyle Estate, Rustenburg, 0299, South Africa ~72: HENDRIK WILLEM TROSKIE VAN ASWEGEN~

2024/07075 ~ Complete ~54:METHODS OF TREATING PROSTATE CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151-85, SWEDEN, Sweden ~72: KANG, Jinyu~ 33:US ~31:63/268,026 ~32:15/02/2022

2024/07078 ~ Complete ~54:HETEROLOGOUS PRIME BOOST VACCINE COMPOSITIONS AND METHODS OF USE ~71:Generation Bio Co., 301 Binney Street, 4th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: MANGANIELLO, Matthew;MARTIN, Constance;SAMAYOA, Phillip~ 33:US ~31:63/319,505 ~32:14/03/2022

2024/07083 ~ Complete ~54:FUNGICIDAL MIXTURE COMPOSITION COMPRISING SULPHUR ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: CERNUSCHI, Matteo~ 33:US ~31:63/319,408 ~32:14/03/2022

# - APPLIED ON 2024/09/16 -

2024/07093 ~ Complete ~54:PAPER DEFECT DETECTION ALGORITHM BASED ON CONVOLUTIONAL NEURAL NETWORK ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Muyuan Wu;Qiang Li;Wenjun Gu;Xia Sun;Yi Zhou;Yuhao Wu;Zhicheng Gong~

2024/07096 ~ Complete ~54:A LARGE SHAFT FORGING MATERIAL PICKING ROBOT ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, No.79 Yingze West Street, Taiyuan, Shanxi, 030024, People's Republic of China;XINJIANG INTELLIGENT EQUIPMENT RESEARCH INSTITUTE, 65 Huafu West Road, Textile Industry, Aksu Prefecture, Xinjiang, 843000, People's Republic of China ~72: Changhua Chen;Dongping He;Huidong Xu;Ming Wang;Qin Cheng;Rongli Zhang;Sainan Wang;Shanshan Zuo;Xuefen Wang;Ziheng Duan~ 33:CN ~31:CN202311235297.5 ~32:25/09/2023

2024/07104 ~ Complete ~54:AN ADSORPTION MOISTURE PUMP BASED AIR TO WATER HARVESTING DEVICE AND A METHOD THEREOF ~71:BRY AIR (ASIA) PVT. LTD., 20, Rajpur Road, Delhi, India ~72: MALIK, Kuldeep;MALIK, Manish;PAHWA, Deepak;PAHWA, Varun;REZK, Dr. Ahmed;SACHDEV, Rajan~ 33:IN ~31:202211015520 ~32:21/03/2022

2024/07107 ~ Complete ~54:WINGED CAPSULE DEVICES AND METHODS ~71:Elanco US Inc., 2500 Innovation Way, GREENFIELD 46140-9163, IN, USA, United States of America ~72: HEMINGWAY, Jeremy;KILLORY, James;LI, Jianbin~ 33:US ~31:63/325,783 ~32:31/03/2022

2024/07110 ~ Complete ~54:APPARATUS AND METHODS FOR DRYING OR STYLING HAIR ~71:JEMELLA LIMITED, 82 Dean Street, London, W1D 3SP, United Kingdom ~72: ANDREW NORFOLK;BEN AYSCOUGH;LIAM WRIGHT;RICHARD GOLD;ROB MILNER;ROBERT WEATHERLY~ 33:GB ~31:2204820.1 ~32:01/04/2022

2024/07097 ~ Complete ~54:ANTIBODIES TO HUMAN COMPLEMENT FACTOR C2B AND METHODS OF USE ~71:argenx BVBA, Industriepark 7, 9052, ZWINJAARDE, BELGIUM, Belgium ~72: BLANCHETOT, Christophe;DE HAARD, Hans~ 33:US ~31:62/779,102 ~32:13/12/2018

2024/07099 ~ Complete ~54:NON-PLASTIC PAPER-BASED HEAT TRANSFER FILM WITH SLOW WATER-ABSORBING LAYER AND PREPARATION METHOD THEREOF ~71:HANGZHOU HYDROTECH CO., LTD., NO.599, Baiyunyuan East Road, Fengchuan Street, Tonglu County, Hangzhou, Zhejiang, 311500, People's Republic of China ~72: DATONG ZHANG;DEWEN SUN;FENPING WANG;HANG LV;JINLIANG KE;XINGKAI ZHANG~

2024/07090 ~ Provisional ~54:MUSHROOM GROW STICKS OR GROW LOGS OR GROW KITS ~71:Ashley, 3 Wild Plum Street, South Africa ~72: Ashley~

2024/07102 ~ Complete ~54:KITS AND METHODS FOR SELECTING EUCALYPTUS GENOTYPES RESISTANT TO PHYSIOLOGICAL DISTURBANCE ~71:FUTURAGENE ISRAEL LTD., P. O. Box 4224, Israel;SUZANO S.A., Av. Professor Magalhaes Neto 1752, EDF. Lena Empresarial 10 Andar Salas 1010 e 1011, Pituba, Brazil ~72: AVISAR, Dror;BENATTI, Thiago Romanos;BLEY BRUMER, Bruna;DA SILVA ROCHA, Carolina;DE MELLO, Eduardo José;GONZALEZ, Esteban Roberto;NEVES GRACA, Rodrigo;ODA, Shinitiro;RODRIGUES GUIMARAES, João Filipi;SHANI, Ziv;WISNIEWSKI GONSALVES, José Mateus~ 33:US ~31:63/311,057 ~32:17/02/2022

2024/07086 ~ Provisional ~54:ANGLE TORQUE DISC ~71:Antony Czeslaw Falencikowski, 5 Commisioner street, South Africa ~72: Antony Czeslaw Falencikowski~

2024/07089 ~ Provisional ~54:A SYSTEM FOR CALCULATING A QUALITY RATING FOR A USED MOTOR VEHICLE ~71:DISCOVERY LIMITED, 1 Discovery Place, corner of Rivonia Road and Katherine Street, Sandton, 2196, South Africa ~72: BRADLEY MERVIS;REARABILWE LESIBANA MMATLI;THASMIRA RAMSINGH;YEHUDA ARYEH HOCKMAN~

2024/07094 ~ Complete ~54:RAPID MEASUREMENT METHOD OF APPLE VOLUME AND WEIGHT BASED ON MACHINE VISION AND MACHINE LEARNING ALGORITHM ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China;Zhejiang Redboat Executive Leadership Academy, No. 1129 Yundong Road, Nanhu District, Jiaxing City, Zhejiang Province, 314000, People's Republic of China ~72: Chunfang Gao;Haiping Jiang;Ping Zhu;Qiang Li;Wenjun Gu;Xia Sun;Yi Zhou;Yuhao Wu~

2024/07103 ~ Complete ~54:PREFABRICATED BUILDING UNIT ~71:RYAN, Mark, 21 Pinehurst Road, Constantia, South Africa ~72: KENEALY, Sean;RYAN, Justin;RYAN. Mark~ 33:ZA ~31:2022/03221 ~32:18/03/2022

2024/07106 ~ Complete ~54:MITOFUSIN ACTIVATORS HAVING AN ENDOCYCLIC-BONDED CARBONYL GROUP AND METHODS FOR USE THEREOF ~71:DORN II, Gerald W., 2668 Bayonne Street, SULLIVAN'S

ISLAND 29482, SC, USA, United States of America ~72: DORN II, Gerald W.~ 33:US ~31:63/327,880 ~32:06/04/2022

2024/07088 ~ Provisional ~54:A VEHICLE CONTROL SYSTEM AND METHOD ~71:Baso Auto Electrical Trading (Pty) Ltd., Plot 8A Kraalhoek, Rustenburg 0300, North West Province, SOUTH AFRICA, South Africa ~72: SEAPI, Moeketsi Isaac~

2024/07098 ~ Complete ~54:REPELLENT COMPOSITION AND USES ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 rue Michel-Ange, 75016, Paris, France;INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, 147 rue de l'Université, 75007, Paris, France;UNIVERSITE DE BOURGOGNE, Esplanade Erasme, 21000, Dijon, France ~72: GÉRARD MANIERE;MARTINE BERTHELOT-GROSJEAN;YAËL GROSJEAN~ 33:EP ~31:19306102.5 ~32:13/09/2019

2024/07105 ~ Complete ~54:AQUEOUS FORMULATION OF FUNGICIDE IN CONCENTRATED SUSPENSION, PRODUCTION PROCESS FOR SAID FORMULATION AND USES THEREOF ~71:Tecnomyl Brasil Distribuidora De Produtos Agrícolas Ltda, Rua Santos Dumont, 1307, 1° andar, sala 4-A, Centro, FOZ DO IGUAÇU 85851-040, PR, BRAZIL, Brazil ~72: AVILA TORRES, Jose Martin;SILVERO DÍAZ, Sally Daniela;SILVERO VELÁZQUEZ, Vivian María~ 33:BR ~31:1020220269505 ~32:29/12/2022;33:BR ~31:1020230221084 ~32:24/10/2023

2024/07087 ~ Provisional ~54:SPORTS HUB AND ANALYTICS APPLICATION ~71:Ntiyiso, 1611a waterval location, South Africa ~72: Ntiyiso Madale~

2024/07100 ~ Complete ~54:DEVICE FOR RAPIDLY COLLECTING GROUNDWATER SAMPLE ~71:INSTITUTE OF HYDROGEOLOGY AND ENVIRONMENTAL GEOLOGY, CHINESE ACADEMY OF GEOLOGICAL SCIENCES, No. 268, Zhonghua North Street, Xinhua District, Shijiazhuang City, People's Republic of China ~72: DONG, Qiuyao;MA, Rong~ 33:CN ~31:2024110639941 ~32:05/08/2024

2024/07108 ~ Complete ~54:COMPOSITION FOR PREVENTING FUNGAL SPOILAGE IN POST-HARVEST FRUITS, VEGETABLES AND FLOWERS, METHOD AND USE THEREOF ~71:BIOBAB R&D, S.L., Calle Alfonso Rodriguez Santamaria, num. 8, 28002, Madrid, Spain ~72: ANDRÉ LUCIO FRANCESCHINI SARRIA;IGNACIO HORCHE TRUEBA~ 33:EP ~31:22382129.9 ~32:17/02/2022

2024/07111 ~ Complete ~54:A TABLET COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DEBOSREE CHATTERJEE;GAURAV PATHAK;GIRISH MURALIDHARAN~ 33:EP ~31:22168926.8 ~32:20/04/2022

2024/07101 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PROMOTING HAIR GROWTH ~71:LOCUS SOLUTIONS IPCO, LLC, 30600 Aurora Road, Suite 180, United States of America ~72: FARMER, Sean;PERONI, Victor, A.~ 33:US ~31:63/325,827 ~32:31/03/2022

2024/07092 ~ Complete ~54:AN ARTIFICIALLY INTELLIGENT – MACHINE LEARNING BASED SELF ALIGNING SUSPENSION SYSTEM ~71:AADITHYAN VEERACHANDRAN THIRUVENGADAM, APARTMENT No.: 1018, 180 CHERRYHILL CIRCLE, LONDON, ONTARIO, N6H 2M2, Canada;Dr. ARUL KUMAR, ASSISTANT PROFESSOR, SCHOOL OF ELECTRICAL ENGINEERING, WACHEMO UNIVERSITY, HOSANA, Ethiopia;Dr. CHITHIRAI PON SELVAN MUTHU PERUMAL, HEAD OF SCHOOL - SCHOOL OF SCIENCE AND ENGINEERING, CURTIN UNIVERSITY, DUBAI INTERNATIONAL ACADEMIC CITY, DUBAI, United Arab Emirates;Dr. OM KUMAR, ASSISTANT PROFESSOR – SENIOR GRADE I, SCHOOL OF COMPUTER SCIENCE AND ENGINEERING (SCOPE), VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI, TAMIL NADU, 600127, India;RAUNAQ DUBEY, MANAGER – INNOVATION, ROAD AND TRANSPORT AUTHORITY, GOVERNMENT OF DUBAI, DUBAI, United Arab Emirates;SURYA GOVINDARAJ, 360E, SENTHUR MURUGAN KOVIL STREET, OLDPET, KRISHNAGIRI, TAMIL NADU, 635001, India ~72: AADITHYAN VEERACHANDRAN

THIRUVENGADAM;Dr. ARUL KUMAR;Dr. CHITHIRAI PON SELVAN MUTHU PERUMAL;Dr. OM KUMAR;RAUNAQ DUBEY;SURYA GOVINDARAJ~

2024/07095 ~ Complete ~54:METHOD FOR HETEROGENEOUS PROPERTY VALUE REMOTE SENSING ESTIMATION AT LARGE SCALE ~71:China Institute of Water Resources and Hydropower Research, 20, Chegongzhuang West Road, Haidian District, Beijing, 100038, People's Republic of China ~72: CUI Shiai;JIANG Wei;LI Xiaotao;LIU Jie;LONG Tengfei;PANG Zhiguo;YAN Denghua;ZHANG Hongbin~

2024/07109 ~ Complete ~54:METHOD FOR WIRELESS COMMUNICATION AND DEVICES THEREOF ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: BO DAI;ESWAR KALYAN VUTUKURI;HE HUANG;LI ZHANG;XIUBIN SHA;YUAN GAO~

- APPLIED ON 2024/09/17 -

2024/07114 ~ Provisional ~54:WIRE MESH COVER PLATE INNER AND OUTER ~71:GR Support and Mining, 182 Vyfhoek LN, South Africa ~72: Francois Joubert~

2024/07116 ~ Complete ~54:IMPROVED MARKER SET FOR IDENTIFYING LIVE AND DEAD ANIMALS ~71:RHINO FORCE SA NPC, P.O. Box 31570, South Africa ~72: Candice Megan JOOSTE;Dr. Christiaan LABUSCHAGNE;Mischa Francesca FRASER~

2024/07123 ~ Complete ~54:DEUTERATED ANALOGS OF PYRROLE INHIBITORS OF ERK, SYNTHESIS THEREOF AND INTERMEDIATES THERETO ~71:BIOMED VALLEY DISCOVERIES, INC., 4435 Main Street Suite 550, Kansas City, Missouri, 64111, United States of America ~72: GARY DECRESCENZO;MARTIN TERESK~ 33:US ~31:63/323,221 ~32:24/03/2022

2024/07112 ~ Provisional ~54:SPORTS HUB AND ANALYTICS PATENT APPLICATION ~71:Ntiyiso Madale, 1611a waterval location, South Africa ~72: Martin Madale~

2024/07121 ~ Complete ~54:A METHOD OF PRODUCING EXPLOSIVE HMX BY FLOW SYNTHESIS ~71:BAE SYSTEMS PLC, 6 Carlton Gardens, London, SW1Y 5AD, United Kingdom ~72: CHRISTOPHER JONES;DANIEL JUBB;IAN EWART PATERSON MURRAY;MATTHEW PAUL DIDSBURY;NIALL JOHN MCWHIR;NICOLA KENNEDY;STUART KENNEDY~ 33:GB ~31:2203917.6 ~32:21/03/2022

2024/07125 ~ Complete ~54:A FILTER GRID RECEIVABLE WITHIN A FILTRATE VAT OF A FILTER PRESS ~71:METSO FINLAND OY, Rauhalanpuisto 9, Espoo, 02230, Finland ~72: ISMO JUVONEN;JANNE KAIPAINEN;MIRVA MUSTAKANGAS;TEEMU ELORANTA~ 33:EP ~31:22167612.5 ~32:11/04/2022

2024/07130 ~ Complete ~54:COMPOSITIONS OF HYDROXYPROPYL-BETA-CYCLODEXTRIN AND METHODS OF PURIFYING THE SAME ~71:Beren Therapeutics P.B.C., 9200 Sunset Blvd., Suite 1010, WEST HOLLYWOOD 90069, CA, USA, United States of America ~72: BENKOVICS, Gabor;MCMINN, Dustin;PFEIFFER, Steven~ 33:US ~31:63/311,661 ~32:18/02/2022

2024/07133 ~ Complete ~54:DUAL SPECIFICITY ANTIBODIES TO HUMAN PD-L1 AND PD-L2 AND METHODS OF USE THEREFOR ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: CURRAN, Michael A.~ 33:US ~31:63/326,456 ~32:01/04/2022;33:US ~31:63/378,196 ~32:03/10/2022

2024/07115 ~ Complete ~54:ROCK BOLT ~71:MSP MINE SUPPORT PRODUCTS (PTY) LTD, 108 Houtkop Road, South Africa ~72: NISSEN, Christian Engelstoft~ 33:ZA ~31:2023/08806 ~32:18/09/2023

2024/07117 ~ Complete ~54:BACKWARD-COMPATIBLE INTEGRATION OF HARMONIC TRANSPOSER FOR HIGH FREQUENCY RECONSTRUCTION OF AUDIO SIGNALS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuidoost, Netherlands ~72: HEIKO PURNHAGEN;LARS VILLEMOES;PER EKSTRAND~ 33:US ~31:62/475,619 ~32:23/03/2017

2024/07118 ~ Complete ~54:DEVICE FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT ~71:ROGACHEV Igor Petrovich, Pogonniy proezd, d. 3, k. 3, kv. 91, Moscow, 107564, Russian Federation ~72: ROGACHEV Igor Petrovich~ 33:RU ~31:2024118088 ~32:29/06/2024

2024/07119 ~ Complete ~54:MACHINE READABLE MEDIUM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT ~71:ROGACHEV Igor Petrovich, Pogonniy proezd, d. 3, k. 3, kv. 91, Moscow, 107564, Russian Federation ~72: ROGACHEV Igor Petrovich~ 33:RU ~31:2024118091 ~32:29/06/2024

2024/07122 ~ Complete ~54:SYSTEM AND METHOD FOR CORRELATING SEQUENTIAL INPUT FILE SIZES TO SCALABLE RESOURCE CONSUMPTION ~71:TERACLOUD APS, Bryghusplatsen 8, 4.402, 1473 Copenhagen K, Denmark ~72: DANIEL SNYDER;JOHN HOGAN~ 33:US ~31:63/334,362 ~32:25/04/2022

2024/07126 ~ Complete ~54:ZIP12 ANTIBODY ~71:IP2IPO INNOVATIONS LIMITED, 2nd Floor, 3 Pancras Square, King's Cross, London, N1C 4AG, United Kingdom ~72: LAN ZHAO;MARTIN WILKINS;STEPHANIE HOPLEY~ 33:GB ~31:2204023.2 ~32:22/03/2022

2024/07128 ~ Complete ~54:FUNGICIDAL COMBINATIONS, MIXTURES AND COMPOSITIONS AND USES THEREOF ~71:Adama Makhteshim Ltd., P. O. BOX 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: CONESE, Salvatore;ROSENMUND, Alexandra~ 33:US ~31:63/316,366 ~32:03/03/2022

2024/07132 ~ Complete ~54:ANTIBODIES CAPABLE OF BINDING TO THE SPIKE PROTEIN OF CORONAVIRUS SARS-COV-2 ~71:RQBio Covid Limited, Scale Space, 58 Wood Lane, LONDON W12 7RZ, UNITED KINGDOM, United Kingdom ~72: MONGKOLSAPAYA, Juthanthip;SCREATON, Gavin~ 33:GB ~31:2202232.1 ~32:18/02/2022;33:GB ~31:2203423.5 ~32:11/03/2022;33:GB ~31:2206777.1 ~32:09/05/2022;33:GB ~31:2212470.5 ~32:26/08/2022;33:GB ~31:2214036.2 ~32:26/09/2022;33:GB ~31:2215418.1 ~32:18/10/2022;33:GB ~31:2301959.9 ~32:10/02/2023

2024/07113 ~ Provisional ~54:MINING HYDRATION VEST ~71:Wayne Du Plooy, 13 markotter, South Africa ~72: Quintin du Plooy;Wayne Du plooy~

2024/07120 ~ Complete ~54:MACHINE READABLE MEDIUM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT ~71:ROGACHEV Igor Petrovich, Pogonniy proezd, d. 3, k. 3, kv. 91, Moscow, 107564, Russian Federation ~72: ROGACHEV Igor Petrovich~ 33:RU ~31:2024118156 ~32:29/06/2024

2024/07124 ~ Complete ~54:CAPS FOR A CONTAINER AND METHOD FOR MAKING A CAP FOR A CONTAINER ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ELEONORA BALDUCCI;FABRIZIO PUCCI;FIORENZO PARRINELLO;GIOVANNI MAZZOTTI~ 33:IT ~31:102022000006653 ~32:04/04/2022

2024/07134 ~ Complete ~54:PINLESS SHROUDS FOR EARTH MOVING MACHINES ~71:METALOGENIA RESEARCH & TECHNOLOGIES S.L., c) Avila no, 45, 08005, Barcelona, Spain ~72: AMAT HOLGADO, Carlos~ 33:EP ~31:22382199.2 ~32:03/03/2022

2024/07135 ~ Complete ~54:LINER PLATE MOUNTING ASSEMBLY ~71:CATERPILLAR GLOBAL MINING LLC, 875 W. Cushing Street, United States of America ~72: JAMILOSA, James G.~ 33:US ~31:17/699,368 ~32:21/03/2022

2024/07127 ~ Complete ~54:A COMPUTER IMPLEMENTED METHOD OF GENERATING AN AVATAR ~71:HEALTH CONNECT GLOBAL LIMITED, Park Gates Bury New Road, Prestwich, Manchester, Lancashire, M25 0JW, United Kingdom ~72: DEVAN MOODLEY~ 33:US ~31:17/657,161 ~32:30/03/2022

2024/07129 ~ Complete ~54:SPORTS TIMING BASED ON A CAMERA SYSTEM ~71:MyLaps B.V., Zuiderhoutlaan 4, HAARLEM 2012 PJ, THE NETHERLANDS, Netherlands ~72: OCTAVIAN PENE, Cosmin;VERWOERD, Adriaan Klaas~ 33:NL ~31:2031336 ~32:18/03/2022

2024/07131 ~ Complete ~54:COOLING ARRANGEMENT FOR A BEVERAGE DISPENSING SYSTEM ~71:Carlsberg Breweries A/S, J.C. Jacobsens Gade 1, COPENHAGEN V 1799, DENMARK, Denmark ~72: LAYBOURN, Klaus~ 33:EP ~31:22158861.9 ~32:25/02/2022

- APPLIED ON 2024/09/18 -

2024/07161 ~ Complete ~54:INFORMATION PROCESSING DEVICE AND METHOD ~71:Sony Group Corporation, 1-7-1, Konan, Minato-ku, TOKYO 1080075, JAPAN, Japan ~72: HAYASHI, Kao;KATO, Tsuyoshi;KUMA, Satoru~ 33:JP ~31:2022-049960 ~32:25/03/2022

2024/07165 ~ Complete ~54:HOT DIPPED STEEL SHEET ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1008071, JAPAN, Japan ~72: FUKUDA, Yuto;SAITO, Mamoru;TOKUDA, Kohei~ 33:JP ~31:2022-024939 ~32:21/02/2022

2024/07166 ~ Provisional ~54:AN ELECTRICAL LICENSE DEVICE AND SYSTEM ~71:THE ROSS FAMILY TRUST NoI/T 20048/ 2014, 8 PEN KOTZE STREET PLATTEKLOOF 1 PARAW, South Africa ~72: ROSS,CLINT DAMIAN~

2024/07138 ~ Provisional ~54:A SAFETY NET FOR PERMANENT INSTALLATION AND A METHOD OF INSTALLING SAME ~71:NICAUD COMPANIES 22 (PTY) LTD, Platinum Industrial Park, 88 van Belkum Street, South Africa ~72: FLANAGAN, Fredrick William~

2024/07145 ~ Complete ~54:DOUBLE-ROTOR COUNTER-ROTATING BRUSHLESS GENERATOR ~71:Qiqihar Pushi Technology Co., Ltd., No. 1401,4th floor, Heilongjiang, Qiqihar high-tech Zone, technology business incubator, 161000, People's Republic of China ~72: Linhao Xie;Shipu Zhang;Shoufeng Zhang;Shouyi Zhang;Sylvia Chang;Yu Liu~ 33:CN ~31:202322566488.1 ~32:21/09/2023

2024/07148 ~ Complete ~54:WATER AND FERTILIZER IRRIGATION SYSTEM FOR MOUNTAIN CHERRY ORCHARDS ~71:Shandong Institute of Pomology, No. 64 Longtan Road, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: DU Zhaoliang;FU Quanbin;FU Quanjuan;HOU Sen;WEI Guoqin;ZHU Shengnan~ 33:CN ~31:2024109695527 ~32:19/07/2024

2024/07158 ~ Complete ~54:BIFUNCTIONAL SMALL MOLECULES TO TARGET THE SELECTIVE DEGRADATION OF CIRCULATING PROTEINS ~71:YALE UNIVERSITY, Two Whitney Avenue, New Haven, Connecticut, 06510, United States of America ~72: DAVID CAIANIELLO;DAVID SPIEGEL;MENGWEN ZHANG~ 33:US ~31:17/695,645 ~32:15/03/2022

2024/07163 ~ Complete ~54:USES OF BIFIDOBACTERIUM LONGUM MICROORGANISMS HAVING THE CAPACITY TO DEGRADE BOTH HMO AND PLANT-DERIVED GLYCANS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DELANNOY-BRUNO, Omar;DUBOUX,

Stéphane;SAKWINSKA, Olga~ 33:EP ~31:22158720.7 ~32:25/02/2022;33:EP ~31:22204950.4 ~32:01/11/2022

2024/07147 ~ Complete ~54:MOVEMENT CONTROL DEVICE WITH DOUBLE BALANCING ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102023000022317 ~32:25/10/2023

2024/07154 ~ Complete ~54:ANTI-FCRN ANTIBODY OR ANTIGEN BINDING FRAGMENT THEREOF WITH IMPROVED STABILITY ~71:HANALL BIOPHARMA CO., LTD., 43, Sangseodang 1-gil, Daedeok-gu, Daejeon, 306-120, Republic of Korea;IMMUNOVANT SCIENCES GMBH, Viaduktstrasse 8, 4051, Basel, Switzerland ~72: EUNSUN KIM;HAEYOUNG YONG;HYEAKYUNG AHN;HYEEUN SHIM;MIJIN JUNG;MINHO YOON;SEUNGKOOK PARK;SU LIANG;WILLIAM LOUIS MACIAS~ 33:KR ~31:10-2022-0066176 ~32:30/05/2022;33:US ~31:63/352,948 ~32:16/06/2022;33:US ~31:63/370,772 ~32:08/08/2022;33:US ~31:63/377,283 ~32:27/09/2022;33:US ~31:63/499,116 ~32:28/04/2023

2024/07156 ~ Complete ~54:IMIDAZOPYRIDAZINE DERIVATIVE, AND PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION THEREOF AND USE THEREOF ~71:SHANGHAI SIMR BIOTECHNOLOGY CO., LTD, No. 26, Lane 100, Banxia Road, Shanghai International Medical Park, Pudong New Area, Shanghai, 201318, People's Republic of China ~72: FEI WANG;NANYANG CHEN;YONG SUN~ 33:CN ~31:202210178772.9 ~32:25/02/2022

2024/07137 ~ Provisional ~54:RACK PROTECTOR ~71:TEX STORAGE SOLUTIONS PTY LTD., B & E Conference Centre, Kempston Road, Port Elizabeth, South Africa ~72: DANIEL CRONJE~

2024/07141 ~ Complete ~54:BENEFICIATION OF AN ORE BEARING ONE OR MORE SULPHIDE MINERALS ~71:BETACHEM (PROPRIETARY) LIMITED, 31 Pafuri Road, EMMARENTIA, Johannesburg 2195, Gauteng, SOUTH AFRICA, South Africa ~72: GROBLER, Elze;NEL, Diderik Johannes~ 33:ZA ~31:2023/09022 ~32:26/09/2023

2024/07136 ~ Provisional ~54:ANGLE DEGREE DISC ~71:Antony Czeslaw Falencikowski, 5 Commisioner street, South Africa ~72: ANTONY CZESLAW FALENCIKOWSKI~

2024/07144 ~ Complete ~54:A BOOK UNMANNED BORROWING AND RETURNING SYSTEM ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: Feng Yuan;Jiang Hongjing;Qi Yan;Yang Lingzhi;Zhang Zhenli~

2024/07153 ~ Complete ~54:METHOD FOR PREPARING SLURRY AND METHOD FOR PRODUCING EXHAUST GAS PURIFYING CATALYST ~71:CATALER CORPORATION, 7800 Chihama, Kakegawa-shi, Shizuoka, 4371492, Japan ~72: ATSUTAKA OKUBO;ETSUKO OHARA;MICHIO SHIMIZU~ 33:JP ~31:2022-048385 ~32:24/03/2022

2024/07157 ~ Complete ~54:COMPRESSOR AND METHOD FOR COMPRESSING A WORKING MEDIUM ~71:MAXIMATOR GMBH, Lange Straße 6, 99734, Nordhausen, Germany ~72: CHRISTOPH NAGL;MARKUS RASCH;MARKUS STEPHAN;ROBERT ADLER~ 33:EP ~31:22174113.5 ~32:18/05/2022

2024/07160 ~ Complete ~54:MASK HAVING LV STRUCTURE AND DEVICE THEREOF ~71:YANG, Mingyu, Room 919, No.66 Xingang East Road, AI and Digital Economic District, Guangzhou, People's Republic of China ~72: YANG, Mingyu~ 33:CN ~31:202111448692.2 ~32:18/11/2021;33:CN ~31:PCT/CN2021/141008 ~32:23/12/2021;33:CN ~31:202210034107.2 ~32:13/01/2022;33:CN ~31:20221523693.9 ~32:18/06/2022;33:CN ~31:202211269160.7 ~32:17/10/2022 2024/07143 ~ Complete ~54:BAUXITE ORE-BASED ACIDIC NUTRIENT SOIL FOR FLOWER AND PLANT, PREPARATION METHOD THEREFOR, AND USE THEREOF ~71:Institute of Plant Nutrition, Resources and Environment, Henan Academy of Agricultural Sciences, No.116 Huayuan Road, Jinshui District,, Zhengzhou City, Henan Province, 450000, People's Republic of China ~72: Cuimin GAO;Fang HE;Hao LIU;Peng LUO;Sensen ZHANG;Weifeng HAN;Xiaoying PAN;Yonghui YANG;Yunhong ZHANG~

2024/07150 ~ Complete ~54:STEEL FRAME SUPPORT DEVICE AND EARLY WARNING METHOD FOR TUNNELS IN FRACTURE ZONES ~71:CHINA ROAD & BRIDGE CORPORATION, No.88, Anding Menwai Street, Dongcheng District, Beijing, 100000, People's Republic of China;Xi'an University of Architecture and Technology, No.13 Yanta Road, Beilin District, Xi'an, Shaanxi Province, 710055, People's Republic of China ~72: GUO Zhuoyu;JIANG Shulin;JIAO Ang;LI Changwei;LI Xiaokun;SONG Zhanping;TAN Jinglin;WANG Fuyun;XU Xiaojing;ZHI Bin~ 33:CN ~31:2024107418356 ~32:11/06/2024

2024/07162 ~ Complete ~54:COMPLEX COACERVATES OF LACTOFERRIN AND OSTEOPONTIN ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BONNET, Nicolas;HAUSER, Jonas;HORCAJADA, Marie Noëlle~ 33:EP ~31:22158718.1 ~32:25/02/2022

2024/07140 ~ Provisional ~54:METHOD OF HEATING FLUIDS BY MEANS OF DER IN AN ELECTRICALLY EARTHED SYSTEM ~71:Riaan Oosthuizen, 19 Jacqueline Street, The Reeds, Centurion, Gauteng, 0063, South Africa ~72: Riaan Oosthuizen~

2024/07142 ~ Complete ~54:PREPARATION METHOD OF ORAL ASTRAGALOSIDE IV NANO-PREPARATION AND APPLICATIONS THEREOF ~71:Guangdong Medical University, No.1 Songshan Lake New City Road, Dongguan City, Guangdong Province, People's Republic of China ~72: JIN Hua;LIU Jiahao;SHEN Xin;ZHAO Yue;ZHOU Zhikun~ 33:CN ~31:202311333489X ~32:16/10/2023

2024/07151 ~ Complete ~54:METHOD AND SYSTEM FOR TUNNEL ADVANCED GEOLOGICAL PREDICTION BASED ON A WEIGHTED MARKOV CHAIN ~71:CHINA ROAD & BRIDGE CORPORATION, No.88, Anding Menwai Street, Dongcheng District, Beijing, 100000, People's Republic of China;Xi'an University of Architecture and Technology, No.13 Yanta Road, Beilin District, Xi'an, Shaanxi Province, 710055, People's Republic of China ~72: CHEN Tao;LI Huixing;LI Xu;MA Ruiping;SONG Zhanping;TAO Huace;ZHANG Jiefeng;ZHANG Jing;ZHANG Meining;ZHOU Ping~ 33:CN ~31:2023114826586 ~32:09/11/2023

2024/07139 ~ Provisional ~54:ANGLE TORQUE DISC ~71:Antony Czeslaw Falencikowski, 5 Commisioner street, South Africa ~72: ANTONY CZESLAW FALENCIKOWSKI~

2024/07146 ~ Complete ~54:STABLE ANALGESIC PUMP ~71:Shanghai Gongli Hospital (Naval Military Medical University), No. 219 Miaopu Road, Pudong New Area, Shanghai, People's Republic of China ~72: Jianrong Guo;Lei Zhang;Xiaowei Shi~

2024/07149 ~ Complete ~54:METHOD FOR ASSISTING A BOOM-TYPE ROADHEADER IN ROCK CUTTING ~71:China Railway Beijing Engineering Bureau Group First Engineering Co., LTD, No. 259 Hangchuang Road, National Civil Aerospace Industry Base, Xi'an, Shaanxi Province, 710100, People's Republic of China;Xi'an University of Architecture and Technology, No.13 Yanta Road, Beilin District, Xi'an, Shaanxi Province, 710055, People's Republic of China ~72: HU Ruoqi;JIA Jianquan;LIN Fangfang;PAN Hongwei;SANG Wenzhao;SONG Zhanping;WANG Yonggang;XIONG Chao;ZHAO Jibin~ 33:CN ~31:2024106964837 ~32:31/05/2024

2024/07152 ~ Complete ~54:DYNAMIC OPTICAL SYSTEM CALIBRATION ~71:ILLUMINA, INC., 5200 ILLUMINA WAY, SAN DIEGO, CA 92122, USA, United States of America ~72: ABASKHARON, Rachel;BARTIG, Kevin;BLAIR, Dustin;EARNEY, John;HOLST, Gregory;LIU, Chia-Hsi;PRABHU, Anmiv;SIM, Daeyong;THAKUR, Ravi, Bhushan Singhchawhan;WATSON, Dakota;WEN, Patrick~ 33:US ~31:63/411,300 ~32:29/09/2022;33:US ~31:63/521,136 ~32:15/06/2023

2024/07155 ~ Complete ~54:WRITING UTENSIL COMPRISING A PLA/PBS SHAFT BASE MATERIAL ~71:STAEDTLER SE, Moosäckerstrasse 3, 90427 Nürnberg, Germany ~72: ANDREAS THIES~ 33:DE ~31:10 2022 114 169.1 ~32:03/06/2022

2024/07159 ~ Complete ~54:PYRIMID-2-YL-PYRAZOLE COMPOUNDS AS IRAK INHIBITORS ~71:RIGEL PHARMACEUTICALS, INC., 1180 Veterans Boulevard, South San Francisco, California, 94080, United States of America ~72: DAVID SWEENY;ESTEBAN MASUDA;JACK MAUNG;SIMON SHAW;YAN CHEN~ 33:US ~31:63/322,955 ~32:23/03/2022

2024/07164 ~ Complete ~54:AGROCHEMICAL SUSPENSION OF SDHI AND/OR STROBILURIN FUNGICIDES ~71:Adama Makhteshim Ltd., P. O. BOX 60, BEER-SHEVA 8410001, ISRAEL, Israel ~72: FIRER SLAVA, Viacheslav;POLIAK, Diana;PRAIZ , Anna~ 33:US ~31:63/317,124 ~32:07/03/2022

- APPLIED ON 2024/09/19 -

2024/07172 ~ Complete ~54:A COPPER COMPLEX AND ITS PREPARATION METHOD AND APPLICATION ~71:YANCHENG TEACHERS UNIVERSITY, NO. 2 SOUTH HOPE AVENUE, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, People's Republic of China ~72: LIANG, Zhanhang;NI, Chunjie;PAN, Shiyu;QIN, Shuya;XU, Xiaojuan;XUE, Yunshan;YUAN, Chen;ZHANG, Dong~ 33:CN ~31:2023118516288 ~32:29/12/2023

2024/07174 ~ Complete ~54:MICROBIAL CONSORTIA FOR SOIL IMPROVEMENT ~71:PLUTON BIOSCIENCES, INC., 11754 Westline Industrial Drive, St. Louis, United States of America ~72: ADU-OPPONG, Boahemaa;GOLDMAN, Barry S.;NORMAN, Nicholas Thomas;SLATER, Steven C.;WAGNER, Alexa Jewell;WOLF, Benjamin M.~ 33:US ~31:63/322,206 ~32:21/03/2022

2024/07178 ~ Complete ~54:NOVEL PROTEINS AND NUCLEIC ACID SEQUENCES AND USE THEREOF IN THE PROPHYLAXIS AND/OR TREATMENT OF CONGENITAL MUSCULAR DYSTROPHIES ~71:UNIVERSITÄT BASEL, PETERSGRABEN 35, 4003 BASEL, SWITZERLAND, Switzerland ~72: REINHARD, Judith;RÜEGG, Markus, A.~ 33:EP ~31:22159671.1 ~32:02/03/2022

2024/07181 ~ Complete ~54:REVAMP PROCESS FOR AN AMMONIA AND METHANOL CO-PRODUCTION PLANT ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: AMEET KAKOTI;DAVID MINGUEZ;PER JUUL DAHL~ 33:DK ~31:PA202200319 ~32:05/04/2022

2024/07183 ~ Complete ~54:PEPTIDIC WATER-SOLUBLE DELIVERY SYSTEM OF ANTICANCER DRUGS ~71:GATE2BRAIN, S.L., Parc Científic de Barcelona Baldiri Reixac 4-8, Torre I, Spain;HOSPITAL SANT JOAN DE DEU, Passeig Sant Joan de Déu, 2, Spain;TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LIMITED, Senate House, Technion City, Israel ~72: DARIO SOSNIK, Alejandro;MONTERO CARCABOSO, Ángel;RESA PARÉS, Clàudia;TEIXIDÓ TURÁ, Meritxell~ 33:EP ~31:22382287.5 ~32:28/03/2022

2024/07187 ~ Complete ~54:RODENTICIDE ~71:PelGen Limited, Unit 13, Newman Lane, ALTON GU34 2QR, HAMPSHIRE, UNITED KINGDOM, United Kingdom ~72: MCCULLOUGH, Danielle;TRIM, Steven~ 33:GB ~31:2204128.9 ~32:24/03/2022

2024/07191 ~ Complete ~54:APPLICATION OF C-REL-SPECIFIC SHRNA IN INHIBITING CORNEAL TRANSPLANT REJECTION ~71:EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY, No.5

Yanerdao Road, Qingdao, People's Republic of China ~72: BIAN, Jiang;LIU, Ruiling;RUAN, Qingguo;SHI, Weiyun;WANG, Ting;ZHENG, Qian~

2024/07192 ~ Complete ~54:SYSTEM AND METHOD OF ALIGNING A MAIN SHAFT OF A GYRATORY CRUSHER ~71:METSO USA INC., 275 N. Corporate Drive, United States of America ~72: POTRATZ, Matthew A.;SHARMA, Aayush~ 33:US ~31:17/715,155 ~32:07/04/2022

2024/07170 ~ Complete ~54:COMPOSITIONS COMPRISING 15-HEPE FOR TREATING OR PREVENTING HEMATOLOGIC DISORDERS, AND/OR RELATED DISEASES ~71:AFIMMUNE LIMITED, Trintech Building, South County Business Park, Leopardstown, Dublin, 18, Ireland ~72: DAVID COUGHLAN;JOHN CLIMAX;MARKUS WEISSBACH;MOAYED HAMZA~

2024/07171 ~ Complete ~54:A NICKEL COMPLEX AND ITS PREPARATION METHOD AND APPLICATION ~71:YANCHENG TEACHERS UNIVERSITY, NO. 2 SOUTH HOPE AVENUE, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, People's Republic of China ~72: CAO, Jingrui;DONG, Youzhen;GUO, Jie;WANG, Jun;WANG, Yingying;XUE, Yunshan;ZHU, Simeng~ 33:CN ~31:2023118492300 ~32:29/12/2023

2024/07180 ~ Complete ~54:POLO-LIKE KINASE 4 (PLK4) INHIBITORS, PHARMACEUTICAL COMPOSITIONS, METHODS OF PREPARATION AND USES THEREOF ~71:REPARE THERAPEUTICS INC., 7210 Frederick-Banting, Suite 100, St-Laurent, Québec, H4S 2A1, Canada ~72: ALEXANDER PERRYMAN;BINGCAN LIU;BOUBACAR SOW;FRÉDÉRIC VALLÉE;MARTIN DUPLESSIS;MICHEL GALLANT;MONICA BUBENIK;PHILIPPE MOCHIRIAN;SIMON SURPRENANT~ 33:US ~31:63/313,035 ~32:23/02/2022

2024/07184 ~ Complete ~54:GIS-TYPE ZEOLITE, ZEOLITE MOLDED BODY, ADSORPTION DEVICE, AND PURIFIED GAS PRODUCTION METHOD ~71:Asahi Kasei Kabushiki Kaisha, 1-1-2 Yurakucho, Chiyoda-ku, TOKYO 1000006, JAPAN, Japan ~72: HANEDA, Tsuyoshi;OHKUBO, Atsushi~ 33:JP ~31:2022-053929 ~32:29/03/2022

2024/07168 ~ Complete ~54:SEED ORIENTATION SYSTEM FOR AGRICULTURAL PLANTERS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: DILLE, Mitchell, R.;STRANG, Keith, T.~ 33:US ~31:62/845,093 ~32:08/05/2019;33:US ~31:62/885,965 ~32:13/08/2019

2024/07173 ~ Complete ~54:POLE SUPPORT DEVICES ~71:NTYRELY NSANE (PTY) LTD, 55 Roscommon road, Parkview, South Africa ~72: KLEINHANS, Frederik Johannes;KLEINHANS, Morne~

2024/07177 ~ Complete ~54:ABIRATERONE DECANOATE PRODRUGS AND USE IN THERAPY ~71:PROPELLA THERAPEUTICS, INC., 120 MOSAIC BOULEVARD, SUITE 120-3, PITTSBORO, NORTH CAROLINA 27312, USA, United States of America ~72: MOORE, JR., William, R.;SHARP, Matthew, J.~ 33:US ~31:63/315,240 ~32:01/03/2022;33:US ~31:63/425,839 ~32:16/11/2022

2024/07185 ~ Complete ~54:NOVEL ANTI-CD3 ANTIBODIES AND USES THEREOF ~71:Antengene Biologics Limited, Suite 1206-1209, Block B, Zhongshan SOHO Plaza, 1065 West Zhongshan Road, Changning District, SHANGHAI 200051, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Peng;HOU, Bing;LI, Tengteng;MEI, Jay;REN, Yijing;SHAN, Bo;YUWEN, Hui~ 33:IB ~31:2022/079943 ~32:09/03/2022;33:IB ~31:2022/122679 ~32:29/09/2022;33:IB ~31:2023/077693 ~32:22/02/2023

2024/07190 ~ Complete ~54:METHOD FOR PRODUCING OLEFIN DIMER, OLEFIN DIMERIZATION CATALYST ~71:MITSUI CHEMICALS, INC., 2-1, Yaesu 2-chome, Chuo-ku, Japan ~72: KAWAHARA,

Jun;NIISHIRO, Ryo;TAKAHASHI, Naoya~ 33:JP ~31:2022-056381 ~32:30/03/2022;33:JP ~31:2022-056382 ~32:30/03/2022

2024/07186 ~ Complete ~54:METHOD FOR PRODUCING THERMOFORMED PLASTICS PARTS FROM POLYETHYLENE TEREPHTHALATE ~71:Thermapet Technologies PTE. LTD., 160 Robinson Road, #14-04 Singapore Business Federation Center, SINGAPORE 068914, SINGAPORE, Singapore ~72: BAMBERGER, Florian~ 33:AT ~31:A 50196/2022 ~32:25/03/2022

2024/07189 ~ Complete ~54:BLENDING SYSTEMS ~71:Sensio Inc., 261 Madison Ave, 25th Floor, NEW YORK 10016, NY, USA, United States of America ~72: BILODEAU (deceased), Keith;GARCIA, Jorge B.;MCKEEVER, Tristan~ 33:US ~31:63/327,648 ~32:05/04/2022

2024/07193 ~ Complete ~54:MODIFIED OLIGONUCLEOTIDES ~71:EMPIRICO INC., 4660 La Jolla Village Drive, Suite 100, United States of America ~72: ALMEIDA, Lauren;GOTTESMAN, Omri;LEWIS, David;ROZEMA, David;WAKEFIELD, Darren H.~ 33:US ~31:63/324,487 ~32:28/03/2022;33:US ~31:63/429,756 ~32:02/12/2022

2024/07169 ~ Complete ~54:METHOD OF TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT ~71:ROGACHEV Igor Petrovich, Pogonniy proezd, d. 3, k. 3, kv. 91, Moscow, 107564, Russian Federation ~72: ROGACHEV Igor Petrovich~ 33:RU ~31:2024118152 ~32:29/06/2024

2024/07167 ~ Provisional ~54:ELECTRICITY GENERATION ~71:Whybrow, John Sheldon, 18 Church Street, Swellendam 6740, Western Cape, SOUTH AFRICA, South Africa ~72: Whybrow, John Sheldon~

2024/07175 ~ Complete ~54:COMPOSITIONS AND METHODS FOR SEPARATING METALS AND/OR MINERALS FROM A SOURCE MATERIAL USING FROTH FLOTATION ~71:LOCUS SOLUTIONS IPCO, LLC, 30600 Aurora Road, Suite 180, United States of America ~72: KNESEL, Gabriela;ROGERS, Jonathan;SILVA, Ronney~ 33:US ~31:63/326,374 ~32:01/04/2022;33:US ~31:63/482,319 ~32:31/01/2023;33:US ~31:63/489,006 ~32:08/03/2023

2024/07176 ~ Complete ~54:TOPICAL COMPOSITIONS AND USES THEROF ~71:TOPADUR PHARMA AG, GRABENSTRASSE 11A, 8952 SCHLIEREN, SWITZERLAND, Switzerland ~72: ATZEI, Paola;FRANCISCO, Rita;NAEF, Reto~ 33:EP ~31:22159773.5 ~32:02/03/2022

2024/07179 ~ Complete ~54:NOVEL MCL-1 INHIBITOR AND COMBINATION OF MCL-1 AND A BH3 MIMETIC, SUCH AS A BCL-2 INHIBITOR ~71:NETRIS PHARMA, 28 rue Laennec Centre Léon Bérard, France ~72: FRYDMAN, Lisa;MANCEAU, Ambroise;MEHLEN, Patrick;NEVES, David;PARADISI, Andréa~ 33:EP ~31:22305395.0 ~32:29/03/2022

2024/07182 ~ Complete ~54:HUMAN INTERLEUKIN-2-DERIVED MUTEINS WITH SUPERAGONIST ACTIVITY ~71:CENTRO DE INMUNOLOGÍA MOLECULAR, Calle 216 y 15, Atabey, Playa, Cuba ~72: CARMENATE PORTILLA, Tania;LEÓN MONZÓN, Kalet;RELOVA HERNÁNDEZ, Ernesto;ROJAS DORANTES, Gertrudis~ 33:CU ~31:2022-0020 ~32:18/03/2022

2024/07188 ~ Complete ~54:COMBINATION THERAPY FOR TREATING CANCER ~71:AstraZeneca AB, SÖDERTÄLJE 151 85, SWEDEN, Sweden ~72: ALBERTELLA, Mark R.;BROWN, Jessica S.;COSULICH, Sabina Chiara;LEO, Elisabetta~ 33:US ~31:63/362,612 ~32:07/04/2022

- APPLIED ON 2024/09/20 -

2024/07203 ~ Complete ~54:PROGRAMMABLE EPIGENETIC CONTROL OF GENE EXPRESSION IN PLANTS ~71:DECIBEL BIO, INC., 6401 Hollis St., Suite 100, Emeryville, California, 94608, United States of America ~72:

ADEN KINNE;ITXASO GARAY;JENNIFER ADELE SAMSON;KEVIN L SCHNEIDER;TRAVIS BAYER~ 33:US ~31:62/820,172 ~32:18/03/2019

2024/07207 ~ Complete ~54:A RECEPTACLE MOULD AND A METHOD OF MANUFACTURING A RECEPTACLE MOULD ~71:PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: ASHCROFT, Theo Richard;PROZESKY, Daniel George;TURNER, Adam Richard~ 33:GB ~31:2204817.7 ~32:01/04/2022

2024/07216 ~ Complete ~54:VENTING MEMBER, FEEDING BOTTLE ASSEMBLY, AND METHOD OF FORMING A VENTING MEMBER ~71:Mayborn (UK) Limited, Mayborn House, Balliol Business Park, NEWCASTLE UPON TYNE NE12 8EW, TYNE AND WEAR, UNITED KINGDOM, United Kingdom ~72: CUDWORTH, Nicholas~ 33:GB ~31:2204192.5 ~32:24/03/2022;33:GB ~31:2301913.6 ~32:10/02/2023

2024/07220 ~ Complete ~54:METHOD AND SYSTEM FOR MATCHING AN ELECTRONIC SALES RECEIPT TO A USER FOR A CUSTOMER PURCHASE TRANSACTION ~71:Myver ApS, CVR-NR 42698261, Fabriksvej 2, SKAMBY 5485, DENMARK, Denmark ~72: EJLERSEN, Anders Michael Juul;PETERSEN, Jesper Ronald;STELLINI EJLERSEN, Pina;STELLINI JUUL EJLERSEN, Frederik;STELLINI JUUL EJLERSEN, Kristoffer~ 33:US ~31:63/322,029 ~32:21/03/2022

2024/07201 ~ Complete ~54:PRINCIPAL COMPONENT REGRESSION-BASED METHOD FOR PREDICTING COAL ASH SINTERING TEMPERATURE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CAI, Jing;CAI, Yujie;LI, Deying;LI, Qiuhong;LI, Yajie;ZHANG, Yao~

2024/07202 ~ Complete ~54:METHOD FOR AND APPARATUS FOR DECODING AN AMBISONICS AUDIO SOUNDFIELD REPRESENTATION FOR AUDIO PLAYBACK USING 2D SETUPS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E, Herikerbergweg 1-35, NL-1101, CN Amsterdam Zuidoost, Netherlands ~72: FLORIAN KEILER; JOHANNES BOEHM~ 33:EP ~31:13290255.2 ~32:23/10/2013

2024/07206 ~ Complete ~54:BISPECIFIC BINDING PROTEINS AGAINST ALARMINS AND USES THEREOF ~71:SINOMAB BIOSCIENCE LIMITED, Units 303 And 305 To 307, No.15 Science Park West Avenue, People's Republic of China ~72: HUI, Chin Wai;LAM, Lik Hang;LEUNG, Shui On;LI, Weimin;SONG, Nan~ 33:US ~31:63/313,483 ~32:24/02/2022

2024/07210 ~ Complete ~54:HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Brian LIN;Evgueni I POLIAK;Narayan POTTORE;Ranbir JAMWAL~

2024/07218 ~ Complete ~54:NOVEL MENAQUINONE-N (VITAMIN-K2-7) SUPPLEMENTATION FOR LIVESTOCK AND POULTRY ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: DE SOUZA, Anselm;MEHTA, Dilip~ 33:IN ~31:202221012704 ~32:09/03/2022

2024/07221 ~ Complete ~54:ION CHANNEL PROSTHETIC COMPOSITIONS COMPRISING LIPID-COATED CRYSTALS OF AMPHOTERICIN B ~71:The Board of Trustees of the University of Illinois, 352 Henry Administration Building, 506 South Wright Street, URBANA 61801, IL, USA, United States of America;cystetic Medicines, Inc., 1549 Industrial Road, SAN CARLOS 94010, CA, USA, United States of America ~72: BURKE, Martin D.;LEWANDOWSKA, Agnieszka;MILLER, Danforth P.;SOUTAR, Corinne;TARARA, Thomas;WEERS, Jeffry G.~ 33:US ~31:63/321,965 ~32:21/03/2022

2024/07213 ~ Complete ~54:POST-CONSUMER RECYCLATED COLORED POLYPROPYLENE COMPOSITION ~71:Borealis AG, Trabrennstrasse 6-8, VIENNA 1220, AUSTRIA, Austria ~72: DENIFL,

Peter;GOETZLOFF, Christian;HETTRICH-KELLER, Michael;LAMBERTZ, Oliver;MACHL, Doris;NAGL, Andreas;PIETTRE, Kilian;PRIESTERS, Hans-Jürgen;TRAN, Tuan Anh;VIJAY, Sameer~ 33:EP ~31:22163635.0 ~32:22/03/2022;33:EP ~31:22197526.1 ~32:23/09/2022

2024/07214 ~ Complete ~54:CRYSTALLINE SALT FORM OF A SHP2 INHIBITOR ~71:Array BioPharma Inc., 3200 Walnut Street, BOULDER 80301, CO, USA, United States of America ~72: BROWN, Katie Keaton;COWDREY, Connor James;GOODWIN, Aaron Keith~ 33:US ~31:63/323,005 ~32:23/03/2022

2024/07228 ~ Complete ~54:COMPOUNDS AS GLP-1R AGONISTS ~71:TERNS PHARMACEUTICALS, INC., 1065 E. Hillsdale Blvd., Suite 100, Foster City, California 94404, United States of America ~72: CHRISTOPHER T JONES;COREY REEVES;GARY W LUEHR;KEVIN QUINN~ 33:US ~31:63/313,160 ~32:23/02/2022

2024/07225 ~ Complete ~54:SALT AND CRYSTAL FORM OF DIPEPTIDYL PEPTIDASE INHIBITOR COMPOUND ~71:HAISCO PHARMACEUTICALS PTE. LTD., 10 Anson Road, #13-09, International Plaza, Singapore, 079903, Singapore ~72: FENGFEI ZHU;JIANG FAN;YING DOU;ZHENG GONG~ 33:CN ~31:202210160862.5 ~32:22/02/2022

2024/07231 ~ Complete ~54:VALVE, AND PACKAGE ~71:B&T ENTWICKLUNGS- UND VERMARKTUNGSGESELLSCHAFT MBH, Überseering 18, 22297, Hamburg, Germany ~72: SABRINA STIEGLER;WERNER BALKAU~ 33:EP ~31:22167474.0 ~32:08/04/2022

2024/07234 ~ Complete ~54:WALKWAY INTEGRATED WITH COOLING SYSTEM ~71:SEELEY INTERNATIONAL PTY LTD, 112 O'Sullivan Beach Road, Lonsdale, South Australia, 5160, Australia ~72: DIAMANTIS DIMITRIS HAGIAS;GILES MCDONALD;ROBERT WILLIAM GILBERT~ 33:US ~31:17/742,308 ~32:11/05/2022

2024/07194 ~ Provisional ~54:A MONITORING SYSTEM ~71:RIX, Heinrich, Carl, Wilhelm, ALENTI OFFICE PARK, BUILDING B, 457 WITHERITE ROAD, THE WILLOWS, PRETORIA, 0040, SOUTH AFRICA, South Africa ~72: KRUGER, Elizabeth, Maria, Susanna;RAJAH, Gavin, Mark;RIX, Heinrich, Carl, Wilhelm~

2024/07212 ~ Complete ~54:COMPOUNDS, COMPOSITIONS, AND METHODS ~71:NICO THERAPEUTICS, INC., c/o Arch Venture Partners, 8755 H Wiggins Rd., Suite 1025, Chicago, United States of America ~72: BAGDASARIAN, ALEX L.;BUCHER, CYRIL;CRAIG, II, ROBERT A.;DE VICENTE FIDALGO, JAVIER;ESTRADA, ANTHONY A.;FOX, BRIAN M.;HUFFMAN, BENJAMIN J.;LEXA, KATRINA W.;OSIPOV, MAKSIM~ 33:US ~31:63/325,577 ~32:30/03/2022;33:US ~31:63/346,203 ~32:26/05/2022

2024/07217 ~ Complete ~54:DUMP CAR HAVING ARCED TOP AND SIDE GATES ~71:Nordic Minesteel Technologies Inc., 373 Main St. West, Unit 1, NORTH BAY P1B 2T9, ONTARIO, CANADA, Canada ~72: KELSO, Bryan~ 33:US ~31:63/318,011 ~32:09/03/2022

2024/07233 ~ Complete ~54:POLYMORPHIC COMPOUNDS AND USES THEREOF ~71:PRELUDE THERAPEUTICS, INCORPORATED, 175 Innovation Blvd., Wilmington, Delaware, 19805, United States of America ~72: ANDREW BUESKING;ANDREW COMBS;BO SHEN;CHAOFENG DAI;GANFENG CAO;PENGPENG YE;REDDY PERUMALLA SATHYANARAYANA;SAISHUAI WEN;YUFENG WEI~

2024/07196 ~ Provisional ~54:COLLARING, CONTROLLING AND GUIDING DEVICE ~71:DWAYN VAN ASWEGEN, 397 Hex River Lifestyle Estate, Rustenburg, 0299, South Africa;LUKE MORNAY SWART, 397 Hex River Lifestyle Estate, Rustenburg, 0299, South Africa ~72: HENDRIK WILLEM TROSKIE VAN ASWEGEN~

2024/07200 ~ Complete ~54:METHOD FOR COMPREHENSIVE PREVENTION AND CURE OF YAM NEMATODIASIS ~71:Institute of Agricultural Applied Microbiology, Jiangxi Academy of Agricultural
Sciences(Jiangxi Rural Energy Research Center), No.602 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: FAN Linjuan;LIU Zirong;WU Caiyun;XU Xueliang;YAO Jian;YAO Yingjuan;ZHANG Fan~ 33:CN ~31:2024102582975 ~32:07/03/2024

2024/07205 ~ Complete ~54:CONTAINER LID AND RELATED DRYING METHODS ~71:CABKA SPAIN S.L.U., c/Ronda Auguste Y Louis Lumière 23, Nave 1, Spain;CHEP ESPAÑA SA, Calle Via de los Poblados, 3, P. E. Cristalia, Spain;CHEP UK LIMITED, 2nd Floor, 400 Dashwood Lang Road, Bourne Business Park, United Kingdom ~72: ASENSIO COTILLAS, Luis;BAZ Y BAZ, Alfonso;LOPEZ URAN, Daniel~ 33:GB ~31:2202440.0 ~32:22/02/2022

2024/07208 ~ Complete ~54:NEW USE OF PEG-PHOSPHOLIPID MOLECULES ~71:ICOAT MEDICAL AB, C/O PEDER WAERN, NORRBACKAGATAN 70 A, 113 34 STOCKHOLM, SWEDEN, Sweden ~72: NILSSON, Bo;SELLBERG, Felix;TERAMURA, Yuji~ 33:SE ~31:2250304-9 ~32:07/03/2022;33:SE ~31:2250959-0 ~32:12/08/2022

2024/07211 ~ Complete ~54:ENGINEERED CD200R ANITBODIES AND USES THEREOF ~71:Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, United States of America;MiroBio Limited, 2nd Floor, 9400 Oxford Business Park, Garsington, United States of America;Oxford University Innovation Limited, Buxton Court, 3 West Way, United Kingdom ~72: CORNALL, RICHARD JOHN;DAVIS, SIMON JOHN;MURRAY, LYNNE ANNE;PALUCH, CHRISTOPHER DOUGLAS;ROBERTSON, NATHAN JACOB;SCOTT, ELEANOR MARYSIA;TOMAZELA, DANIELA M.~ 33:US ~31:63/348,532 ~32:03/06/2022;33:US ~31:63/328,015 ~32:04/06/2022

2024/07223 ~ Complete ~54:FEATHER SORTING MACHINE FOR DOWN PROCESSING ~71:Lu'an the Sea Feather Down Products Company Ltd, Gaocheng Road, Economic Development Zone, Lu 'an City, Anhui Province, 237161, People's Republic of China;The Sea Feather Limited Company of Lu'an, Gaocheng Road, Economic Development Zone, Lu 'an City, Anhui Province, 237161, People's Republic of China;West Anhui University, Moon Island Residential Quarters in Yu 'an District, Lu 'an City, Anhui Province, 237012, People's Republic of China ~72: LI Lingang;QIN Yu;WANG Liangyin;YU Jingui;YU Xueyong~ 33:CN ~31:2022110420526 ~32:29/08/2022

2024/07198 ~ Complete ~54:NANOMETER DOSAGE FORM OF PAEONIAE RADIX ALBA-GLYCYRRHIZAE RADIX ET RHIZOMA DECOCTION AND APPLICATION THEREOF IN NONALCOHOLIC FATTY LIVER ~71:GUANGDONG MEDICAL UNIVERSITY, No. 1, Xincheng Avenue, Songshan Lake High-tech Industrial Development Zone, Dongguan City, Guangdong Province, People's Republic of China ~72: JIN Hua;ZHAO Yue;ZHOU Zhikun~ 33:CN ~31:2024111075359 ~32:13/08/2024

2024/07230 ~ Complete ~54:VALVE, AND PACKAGE ~71:B&T ENTWICKLUNGS- UND VERMARKTUNGSGESELLSCHAFT MBH, Überseering 18, 22297, Hamburg, Germany ~72: KURT KRONAWITTLEITHNER;WERNER BALKAU~ 33:EP ~31:22167473.2 ~32:08/04/2022

2024/07199 ~ Complete ~54:COMPOSITION FOR PREVENTING AND TREATING PRATYLENCHUS COFFEAE AND APPLICATION THEREOF ~71:Institute of Agricultural Applied Microbiology, Jiangxi Academy of Agricultural Sciences(Jiangxi Rural Energy Research Center), No.602 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: FAN Linjuan;LIU Zirong;WU Caiyun;XU Xueliang;YAO Yingjuan;YAO Jian;ZHANG Fan~ 33:CN ~31:2023113807323 ~32:24/10/2023

2024/07209 ~ Complete ~54:A MARTENSITIC STEEL SHEET AND A METHOD OF MANUNFACTURING THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena UTA;Julien LAMOUCHE;Matthieu SIEBENTRITT;Quentin MILLEE;Vincent LHOIST~

2024/07215 ~ Complete ~54:SYSTEM, METHOD AND DEVICE FOR DELIVERY OF A THERAPEUTIC OR DIAGNOSTIC AGENT ~71:Bayer HealthCare LLC, 100 Bayer Boulevard, WHIPPANY 07981, NJ, USA, United States of America ~72: BAYNE, Ryan;BRILHANTE, Joana Oliveira Rego;COCKERHAM, Ashley;EID, Anne Berit;GE, Winston;HU, Ellia;JONES, Andrew;MILLER, Rich;SUNDARARAMAN, Hamsini;TING, Joe;VOLKAR, John;YOO, Brian~ 33:US ~31:63/312,145 ~32:21/02/2022;33:US ~31:63/312,148 ~32:21/02/2022

2024/07219 ~ Complete ~54:METHOD FOR DETERMINING THE WEAR VOLUME OF A SLIDING-RING SEAL IN SINGULAR WEAR EVENTS BY MEANS OF HIGH-TEMPORAL-RESOLUTION TEMPERATURE MEASUREMENT ~71:KSB SE & Co. KGaA, Johann-Klein-Straße 9, FRANKENTHAL 67227, GERMANY, Germany ~72: OTSCHIK, Joachim~ 33:DE ~31:10 2022 000 970.6 ~32:21/03/2022

2024/07224 ~ Complete ~54:PREPARATION METHOD OF NITROGEN-CONTAINING HETEROCYCLIC COMPOUND ~71:HAISCO PHARMACEUTICALS PTE. LTD., 10 Anson Road, #13-09, International Plaza, Singapore, Singapore ~72: CHENGTAO WANG;FENGFEI ZHU;JIANG FAN;MAN GAN;YING DOU~ 33:CN ~31:202210160847.0 ~32:22/02/2022

2024/07236 ~ Complete ~54:COMPUTING APPARATUS, METHOD, AND PROGRAM FOR DATA RECONCILIATION ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: MCNAB, Rodger;RADA-VILELA, Juan Carlos;ROACHE, Stanley~ 33:AU ~31:2022900632 ~32:15/03/2022

2024/07195 ~ Provisional ~54:METHOD FOR IMAGE CONVERSION ~71:Signdesign.ai Pty Ltd, 5 Greenacres Close, Glenning Valley, Australia ~72: Andrej Maletic;Stephen Pastor~

2024/07204 ~ Complete ~54:A PROFILE ADAPTER FOR A SECTIONAL DOOR PANEL ~71:NIGEL HAMILTON MILLN, Unit 2 Sandlea, 4 Coghill Avenue, South Africa ~72: MILLN, Nigel Hamilton~

2024/07222 ~ Complete ~54:MULTIPLICATION ABACUS DEVICE ~71:JINZHOU MENGZAI STATIONERY SALES CO., LTD., 1000 Meters North of Kanghua Hospital, East of Liujiazhuang Village, Jinzhou Town, Jinzhou City, Shijiazhuang, Hebei, 050000, People's Republic of China ~72: CHAOMENG LIU~ 33:CN ~31:202220676989.8 ~32:24/03/2022

2024/07227 ~ Complete ~54:COMPOUNDS AND METHODS OF USE ~71:TANGO THERAPEUTICS, INC., 201 Brookline Ave, Suite 901, Boston, Massachusetts, 02215, United States of America ~72: KEVIN M COTTRELL~ 33:US ~31:63/303,409 ~32:26/01/2022;33:US ~31:63/435,210 ~32:23/12/2022

2024/07229 ~ Complete ~54:VALVE, AND PACKAGE ~71:B&T ENTWICKLUNGS- UND VERMARKTUNGSGESELLSCHAFT MBH, Überseering 18, 22297, Hamburg, Germany ~72: KURT KRONAWITTLEITHNER;WERNER BALKAU~ 33:EP ~31:22167471.6 ~32:08/04/2022

2024/07197 ~ Complete ~54:GEOMETRIC CONFIGURATIONS FOR GASTRIC RESIDENCE SYSTEMS ~71:Lyndra Therapeutics, Inc., 65 Grove Street, Suite 301, Watertown 02472, MA, USA, United States of America ~72: BELLINGER, Andrew;GARDNER, Colin;GRANT, Tyler;KANASTY, Rosemary~ 33:US ~31:62/264,811 ~32:08/12/2015

2024/07226 ~ Complete ~54:CRYSTALLINE FORM OF N-(6-AMINO-5-METHYLPYRIDIN-3-YL)-2-(BENZO[D]THIAZOL-5-YL)-5-METHYLPIPERIDIN-1-YL)-2-OXOACETAMIDE, PHARMACEUTICAL COMPOSITIONS AND METHODS OF USE THEREOF ~71:TANGO THERAPEUTICS, INC., 201 Brookline Ave, Suite 901, Boston, Massachusetts, 02215, United States of America ~72: ALICE WANJUNG TSAI-MARIE;ERIK WILLIAM WILKER;HONGMING LI;JIANGLIN LIANG;KEVIN M COTTRELL;KIMBERLY JANE BRIGGS;MAGNUS RONN;MATTHEW ROBERT TONINI;MINJIE ZHANG;SAPNA MAKHIJA GARAD~ 33:US ~31:63/291,007 ~32:17/12/2021;33:US ~31:63/419,221 ~32:25/10/2022 2024/07232 ~ Complete ~54:EXTERNAL PRESSURE FLUID RESERVOIR FOR STORING ENERGY ~71:ENERGY VAULT, INC., 4360 Park Terrace Dr., Suite 100, Westlake Village, California, 91361, United States of America ~72: MAURO PEDRETTI-RODI~ 33:CH ~31:CH000298/2022 ~32:18/03/2022

2024/07235 ~ Complete ~54:DATAFLOW GRAPH DATASETS ~71:AB INITIO TECHNOLOGY LLC, 201 Spring Street, Lexington, Massachusetts, 02421, United States of America ~72: GARTH ALLEN DICKIE;IAN ROBERT SCHECHTER;JONAH EGENOLF;MARSHALL A ISMAN~ 33:US ~31:63/338,855 ~32:05/05/2022;33:US ~31:63/432,615 ~32:14/12/2022

2024/07237 ~ Complete ~54:PROCESS FOR THE SYNTHESIS OF MELAMINE ~71:CASALE SA, Via Giulio Pocobelli 6, Switzerland ~72: FILIPPI, Ermanno;GAMBA, Simone~ 33:EP ~31:22162328.3 ~32:15/03/2022

Application Number	Assignor	Assignee
2007/06069	PATRIA WEAPONS SYSTEMS OY	PATRIA LAND & ARMAMENT OY
2007/06069	PATRIA LAND SERVICES OY	PATRIA LAND OY
2022/09885	ANHUI POLYTECHNIC UNIVERSITY	TONGLING QILI ELECTRONICS CO., LTD.
2016/06392	PROGRESSIVE STERILIZATION, LLC	STERICUBE SURGICAL SYSTEMS, LLC
2013/07464	ERUM BIOTECHNOLOGIES, INC.	JANSSEN PHARMACEUTICA NV
2021/02490	UNIVERSITA DEGLI STUDI DI PADOVA	UNIVERSITEIT ANTWERPEN and LUREDERRA CENTRO TECNOLOGICO
2021/02490	LUREDERRA CENTRO TECNOLOGICO	UNIVERSITEIT ANTWERPEN
2016/01530	CLIP-LOK INTERNATIONAL LIMITED	AL EMBALLAGE A/S
2020/03139	BEMICRON	ALSICO HIGH TECH NV
2011/08313	SIEMENS INDUSTRY INC.	SIEMENS LARGE DRIVES LLC
2018/00629	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2018/02265	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2017/04725	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2017/04789	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2019/05710	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2020/00052	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2016/04161	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2023/10760	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2020/06341	STOLLER ENTERPRISES, INC.	CORTEVA AGRISCIENCE LLC
2023/06665	LACTOBIO A/S	L'OREAL S.A.
2024/02339	LACTOBIO A/S	L'OREAL S.A.
2021/04467	LACTOBIO A/S	L'OREAL S.A.
2023/06817	LACTOBIO A/S	L'OREAL S.A.
2024/05673	CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED	CONTEMPORARY AMPEREX TECHNOLOGY (HONG KONG) LIMITED
2013/01015	HENRICUS JOHANNES GODEFRIDUS MARIA HOEBEN	WINGSSPRAYER B.V.
2012/03482	HENRICUS JOHANNES GODEFRIDUS MARIA HOEBEN	WINGSSPRAYER B.V.
2014/09188	SUNCOR ENERGY INC.	NUTRIEN AG SOLUTIONS (CANADA) INC.
2022/09348	SUNCOR ENERGY INC.	NUTRIEN AG SOLUTIONS (CANADA) INC.

# ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)

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Application Number	Assignor	Assignee					
2023/05420	SMITH, KENTON OLIVER	BAKARI GROUP B.V.					
2017/07863	PARANHOS TORRES, MAURICIO	ALPHACORE TECNOLOGIA E					
		DESENVOLVIMENTO DE CAPACETES S.A.					
2014/05616	SONU GROUP PROPRIETARY	PIMMS GROUP (PTY) LTD					
2014/05864		INHIBRX BIOSCIENCES INC					
2022/13882	INHIBRX INC	INHIBRX BIOSCIENCES INC					
2023/07590							
2017/07404		INHIBRX BIOSCIENCES, INC					
2015/05745	INHIBRX, INC.	INHIBRX BIOSCIENCES, INC.					
2018/04103	INHIBRX INC	INHIBRX BIOSCIENCES INC					
2018/04390	INHIBRX INC	INHIBRX BIOSCIENCES INC					
2019/05292	INHIBRX INC	INHIBRX BIOSCIENCES INC					
2019/06795	INHIBRX INC	INHIBRX BIOSCIENCES INC					
2020/06172		INHIBRX BIOSCIENCES, INC					
2021/00634	INHIBRX, INC.	INHIBRX BIOSCIENCES, INC.					
2021/04475	INHIBRX INC	INHIBRX BIOSCIENCES, INC					
2022/12718	INHIBRX INC	INHIBRX BIOSCIENCES INC					
2022/08464	INHIBRX, INC.	INHIBRX BIOSCIENCES, INC.					
2022/11577	INHIBRX, INC.	INHIBRX BIOSCIENCES, INC.					
2018/00238	INHIBRX INC	INHIBRX BIOSCIENCES INC					
2023/08760	ABCURO, INC.	THE BRIGHAM AND WOMAN'S HOSPITAL,					
2021/01450	ABCURO, INC.	THE BRIGHAM AND WOMAN'S HOSPITAL, INC.					
2023/09506	MAZE THERAPEUTICS. INC.	TRACE NEWCO, INC.					
2012/00100	IDE WATER ASSETS LTD	IDE WATER TECHNOLOGIES LTD.					
2020/07648	SOLAR SHEVA (PTY) LTD	SUREGUIDE TRACKING (PTY) LTD					
2022/06481	CHENGDU BAIYU	KANGBAIDA (SICHUAN) BIOTECHNOLOGY					
	PHARMACEUTICAL CO., LTD.	CO., LTD.					
2021/04112	KYORIN PHARMACEUTICAL CO., LTD.	KYORIN HOLDINGS, INC.					
2015/00246	ORDERCLOUD (PTY) LTD	SHOP2SHOP (PTY) LTD					
2007/06760	KAPSCH TRAFFICCÓM AB	KAPSCH TRAFFICCOM AG					
2007/05077	KAPSCH TRAFFICCOM AB	KAPSCH TRAFFICCOM AG					
2017/04323	KAPSCH TRAFFICCOM AB	KAPSCH TRAFFICCOM AG					
2017/04322	KAPSCH TRAFFICCOM AB	KAPSCH TRAFFICCOM AG					
2021/07042	SOUND AGRICULTURE	DECIBEL BIO, INC.					
2018/08184	F-STAR THERAPEUTICS LIMITED	INVOX PHARMA LIMITED					
2020/07570	F-STAR THERAPEUTICS LIMITED						
2021/00717	F-STAR THERAPEUTICS LIMITED						
2021/00718	F-STAR THERAPEUTICS LIMITED						
2021/00721	F-STAR THERAPFUTICS LIMITED						
2021/00723	F-STAR THERAPFUTICS LIMITED						
2021/10158	F-STAR THERAPEUTICS LIMITED						
2023/09141	CONRADIE FAMILY TRUST	GRANAAT TRUST					
2017/01043	3P TECHNIK FILTERSYSTEME	SANISOLAR GMBH					
2024/00362	ANGLO AMERICAN MINERIO DE FERRO BRASIL S/A	ANGLO AMERICAN INVESTIMENTOS – MINERIO DE FERRO LTDA.					

Application Number	Assignor	Assignee
2022/09926	METADATIA TECHNOLOGIES S.L.	VRAIA CORP, S.L.
2024/02266	NETWORK RAIL LIMITED	NETWORK RAIL INFRASTRUCTURE LIMITED
2023/00448	FLAGSHIP PIONEERING, INC.	FLAGSHIP PIONEERING INNOVATIONS VII, LLC
2014/04005	HORPHAG RESEARCH IP (QR) LTD	HORPHAG RESEARCH IP LTD
2014/03827	HORPHAG RESEARCH IP (QR) LTD	HORPHAG RESEARCH IP LTD
2012/09725	HORPHAG RESEARCH IP (QR) LTD	HORPHAG RESEARCH IP LTD

## CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2007/06069	PATRIA VAMMAS OY	PATRIA WEAPON SYSTEMS OY
2007/06069	PATRIA LAND & ARMAMENT OY	PATRIA LAND SERVICES OY
2011/01380	SDG TECHNOLOGIES CC	SDG TECHNOLOGIES (PTY) LTD
2017/01334	NOVOZYMES BIOAG A/S	NOVONESIS PLANT BIOSOLUTIONS A/S
2018/05009	NOVOZYMES BIOAG A/S	NOVONESIS PLANT BIOSOLUTIONS A/S
2006/09075	NOVOZYMES BIOLOGICALS HOLDINGS A/S	NOVONESIS PLANT BIOSOLUTIONS A/S
2019/01450	S.P.C.M. SA	SNF GROUP
2020/00349	SIMMEL DIFESA S.P.A.	KNDS AMMO ITALY S.P.A.
2023/09506	TRACE NEWCO, INC.	TRACE NEUROSCIENCE, INC.
2021/04112	KYORIN HOLDINGS, INC.	KYORIN PHARMACEUTICAL CO., LTD.
2023/06305	HEPTARES THERAPEUTICS	NXERA PHARMA UK LIMITED
	LIMITED	
2020/07986	HEPTARES THERAPEUTICS	NXERA PHARMA UK LIMITED
	LIMITED	
2018/00715	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2016/06143	HEPTARES THERAPEUTICS	NXERA PHARMA UK LIMITED
2024/02230		
2024/02239	PHARMACEUTICAL CO. LTD	(SHAOXIGN) COLLTD
2019/06483	F1 ONCOLOGY_INC	EXUMA BIOTECH CORP
2016/06206	HEPTARES THERAPEUTICS	NXERA PHARMA UK I IMITED
	LIMITED	
2020/07888	EJOT GMBH & CO. KG	EJOT SE & CO. KG
2020/07910	EJOT GMBH & CO. KG	EJOT SE & CO. KG
2022/11161	CELLULAR BIOMEDICINE	ABELZETA INC.
	GROUP, INC.	

# PATENT LICENSES IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64

No records available

### PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date				
2023/08689	WITHDRAWN	22/08/2024				
2023/04315	WITHDRAWN	26/03/2024				
2023/10649	WITHDRAWN	18/09/2024				
2024/00007	WITHDRAWN	18/09/2024				
2022/11230	WITHDRAWN	19/09/2024				
2008/10800	WITHDRAWN	19/09/2024				
2023/10010	WITHDRAWN	20/05/2024				
2023/04193	WITHDRAWN	20/05/2024				
2023/07045	WITHDRAWN	05/07/2024				
2023/08778	WITHDRAWN	13/09/2024				
2024/02167	WITHDRAWN	20/09/2024				

### APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR THE RESTORATION OF A LAPSED PATENT UNDER SECTION 47 OF THE ACT

Notice is hereby given that CARDIOPHARMA, INC. whose address for service is SIBANDA & ZANTWIJK, OAKLANDS has applied to the registrar for the restoration of Patent No 2021/07873 entitled ANTI-HYPERTENSIVE AND CHOLESTEROL-LOWERING FIXED-DOSE COMBINATION AND METHOD OF

**MANUFACTURE**, dated **17/04/2019**, which lapsed on **17/04/2022** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **Aart OUDBIER**, **Mark Wayne CARTER AND Cornelius Johannes DANNHAUSER** whose address for service is **ADAMS & ADAMS**, **PRETORIA** has applied to the registrar for the restoration of Patent No **2020/05550** entitled **A GRILL CLEANER**, dated **08/09/2020**, which lapsed on **08/09/2023** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **ASCENEURON S.A**, whose address for service is **ADAMS & ADAMS**, **PRETORIA** has applied to the registrar for the restoration of Patent No **2018/04870** entitled **ACID ADDITION SALTS OF** 

**PIPERAZINE DERIVATIVES**, dated **24/02/2017**, which lapsed on **24/02/2021** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **Darren Sean GLEN**, whose address for service is **ADAMS & ADAMS**, **PRETORIA** has applied to the registrar for the restoration of Patent No 2021/05085 entitled **CLIP-ON SECURING SYSTEM AND FASTENING COMPONENT THEREFOR**, dated 20/12/2018, which lapsed on 20/12/2022 owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **THE SCRIPPS RESEARCH INSTITUTE** whose address for service is **SPOOR & FISHER, CENTURION** has applied to the registrar for the restoration of Patent No 2021/00032 entitled **NANOPARTICLE VACCINES WITH NOVEL STRUCTURAL COMPONENTS**, dated 13/06/2019, which lapsed on 27/01/2023 owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **Genentech**, **Inc** whose address for service is **SPOOR & FISHER**, **CENTURION** has applied to the registrar for the restoration of Patent No 2017/01050 entitled **USES FOR AND ARTICLE OF MANUFACTURE INCLUDING HER2 DIMERIZATION INHIBITOR PERTUZUMAB**, dated **11/10/2012**, which lapsed on **11/10/2020** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **MICHELLE RASSUL JEROME** whose address for service is **SMIT & VAN WYK, INC. PRETORIA** has applied to the registrar for the restoration of Patent No 2018/00899 entitled **FEMALE HYGIENE**, dated **12/02/2018**, which lapsed on **12/02/2024** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **SKARBOVIG**, **Nils Mittet** whose address for service is **VON SEIDELS**, **CAPE TOWN** has applied to the registrar for the restoration of Patent No 2008/08312 entitled **MINE SUPPORT GROUT BAGS AND GROUT PACKS**, dated **29/09/2008**, which lapsed on **29/09/2023** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **RED SURCOS COLOMBIA S.A.S.** whose address for service is **VON SEIDELS**, **CAPE TOWN** has applied to the registrar for the restoration of Patent No 2022/09889 entitled PHYTOSANITARY HERBICIDE COMPOSITION IN THE FORM OF A MICROEMULSION WITH LOW SURFACTANT CONTENT AND HIGH COMPATIBILITY IN ULTRA-LOW VOLUME SPRAY LIQUIDS, AND METHOD FOR OBTAINING IT, dated 20/10/2020, which lapsed on 20/10/2023 owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

Notice is hereby given that **GIDARA ENERGY B.V.** whose address for service is **VON SEIDELS, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2019/08363** entitled **AFTERTREATMENT ARRANGEMENT AND METHOD FOR THE AFTERTREATMENT OF AT LEAST GASES DOWNSTREAM OF A FLUID BED GASIFICATION SYSTEM, AND LOGIC UNIT AND USE**, dated **08/06/2018**, which lapsed on **08/06/2021** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

# THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

# APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

# APPLICATIONS TO AMEND SPECIFICATION

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

### **Registrar of Patents**

# INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4**, **00**. Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

### **COPIES OF DOCUMENTS**

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: R1, 00 per page

### COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

### THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: (21) Number of application. (22) Date of application. (43) Date of acceptance. (51) Class. (71) Name of applicant(s). (72) Name of all inventors. (33) Country. (31) Number and (32) Date of convention application. (54) Title of invention. (00) Number of sheets.

### **Registrar of Patents**

21: 2014/05021. 22: 2014/07/09. 43: 2024/08/12 51: C07K 71: ABLYNX N.V. 72: SINGH, SANJAYA, WATERMAN, ALISA K., DEPLA, ERIK, LAEREMANS, TOON, VAN HOORICK, DIANE, VERVERKEN, CEDRIC JOZEF NEOTERE 33: US 31: 61/603,622 32: 2012-02-27

# 54: CX3CR1-BINDING POLYPEPTIDES 00: -

The present invention relates to CX3CR1-binding polypeptides, in particular polypeptides comprising specific immunoglobulin domains. The invention also relates to nucleic acids encoding such polypeptides; to methods for preparing such polypeptides; to host

cells expressing or capable of expressing such polypeptides; to compositions comprising such polypeptides; and to uses of such polypeptides or such compositions, in particular for prophylactic, therapeutic and diagnostic purposes.

21: 2015/02979. 22: 2015/04/30. 43: 2024/07/30 51: A61K; A61P

71: SIGRID THERAPEUTICS AB 72: CSIKASZ, Robert, BENGTSSON, Tore, KUPFERSCHMIDT, Natalia, GARCIA-BENNETT, Alfonso E.

### 33: US 31: 61/723,019 32: 2012-11-06 54: A POROUS SILICA MATERIAL FOR USE AS A PHARMACEUTICAL OR DIETARY ACTIVE INGREDIENT

00: -

A porous silica material for use as a pharmaceutical or dietary active ingredient having pores in the mesoscale range (2-50 nm), wherein the average pore size of the pores in the mesoscale range is in the range of 2 to 25 nm, and the pore size distribution (PSD) in the mesoscale range is such that at least 80% of the pores fall within the range of 2 to 25 nm.



21: 2015/09053. 22: 2015/12/11. 43: 2024/07/23 51: A01C

71: Clean Seed Agricultural Technologies Ltd. 72: ROSENGREN, Colin Mark, RUFF, Robert Sydney, SCHEMBRI, Charles Joseph, WILSON, Gordon Blair

## 54: A SYSTEM FOR VARIABLE-RATIO BLENDING OF MULTIPLE AGRICULTURAL PRODUCTS FOR DELIVERY VIA A PORTED OPENER

00: -

A system to meter multiple agricultural products according to an independently prescribed rate for each in a variable-ratio blend of the agricultural products from a single opener in a plurality of such systems and openers across an applicator such as a drill. Bulk storage compartments associated with the applicator deliver multiple agricultural products to metering assemblies mounted in clusters or pods across the applicator. The agricultural products are fed from the metering assemblies, via a flow redirector, into a manifold, and then into a corresonding single opener having conduits to transport the agricultural product into the soil. Controllers independently regulate metering by the metering assemblies. The flow re-director and manifold provide blending of combinations of the agricultural products for each opener according to a field prescription.



21: 2016/02877. 22: 2016/04/26. 43: 2024/08/27 51: A61K; A61P

71: BOEHRINGER INGELHEIM VETMEDICA GMBH

72: REICHE DANIA BIRTE, HAAG-DIERGARTEN SILKE, HENNINGS LEAH JEANETTE, KLEY SASKIA, TRAAS ANNE M

33: EP 31: 13197821.5 32: 2013-12-17

33: EP 31: 14187228.3 32: 2014-10-01

54: TREATMENT OF METABOLIC DISORDERS IN FELINE ANIMALS

# 00: -

The present invention relates to one or more SGLT2 inhibitors or pharmaceutically acceptable forms thereof for use in the treatment and/or prevention of a metabolic disorder in a feline animal, preferably wherein the metabolic disorder is one or more selected from the group consisting of: ketoacidosis, pre-diabetes, diabetes mellitus type 1 or type 2, insulin resistance, obesity, hyperglycemia, impaired

glucose tolerance, hyperinsulinemia, dyslipidemia, dysadipokinemia, subclinical inflammation, systemic inflammation, low grade systemic inflammation, hepatic lipidosis, atherosclerosis, inflammation of the pancreas, neuropathy and/or Syndrome X (metabolic syndrome) and/or loss of pancreatic beta cell function and/orwherein the remission of the metabolic disorder, preferably diabetic remission, is achieved and/or maintained.

21: 2016/03714, 22: 2016/05/31, 43: 2024/08/12 51: A61K; C12N 71: THE BROAD INSTITUTE, INC, MASSACHUSETTS INSTITUTE OF TECHNOLOGY 72: CONG, Le, COX, David, Benjamin, Turitz, HEIDENREICH, Matthias, PLATT, Randall, Jeffrey, SWIECH, Lukasz, ZHANG, Feng 33: US 31: 61/915,145 32: 2013-12-12 33: US 31: 61/915,148 32: 2013-12-12 33: US 31: 61/915.107 32: 2013-12-12 33: US 31: 61/915,153 32: 2013-12-12 33: US 31: 61/915,176 32: 2013-12-12 33: US 31: 61/915,192 32: 2013-12-12 33: US 31: 61/915,215 32: 2013-12-12 54: DELIVERY, USE AND THERAPEUTIC **APPLICATIONS OF THE CRISPR-CAS SYSTEMS** AND COMPOSITIONS FOR GENOME EDITING 00: -

The invention provides for delivery, engineering and optimization of systems, methods, and compositions for manipulation of sequences and/or activities of target sequences. Provided are delivery systems and tissues or organ which are targeted as sites for delivery. Also provided are vectors and vector systems some of which encode one or more components of a CRISPR complex, as well as methods for the design and use of such vectors. Also provided are methods of directing CRISPR complex formation in eukaryotic cells to ensure enhanced specificity for target recognition and avoidance of toxicity and to edit or modify a target site in a genomic locus of interest to alter or improve the status of a disease or a condition.



### 21: 2017/00196. 22: 2017/01/10. 43: 2024/09/10 51: A61K

# 71: SANOFI BIOTECHNOLOGY, REGENERON PHARMACEUTICALS, INC. 72: HANOTIN, Corinne, BESSAC, Laurence, CHAUDHARI, Umesh, PORDY, Robert, C., SCHWEMMER GIPE, Daniel A. 33: US 31: 62/025,371 32: 2014-07-16 33: US 31: 62/043,167 32: 2014-08-28 33: US 31: 62/080,725 32: 2014-11-17 33: US 31: 62/132,709 32: 2015-03-13 33: EP 31: 15305830.0 32: 2015-05-29

### 54: METHODS FOR TREATING HIGH CARDIOVASCULAR RISK PATIENTS WITH HYPERCHOLESTEROLEMIA 00: -

The present invention provides methods for treating hypercholesterolemia. The methods of the present invention comprise administering to a high cardiovascular risk patient a pharmaceutical composition comprising a PCSK9 inhibitor. In certain embodiments, the PCSK9 inhibitor is an anti-PCSK9 antibody such as the exemplary antibody referred to herein as mAb316P. The methods of the present invention are useful for treating high cardiovascular risk patients with hypercholesterolemia and established CHD or CHD risk equivalents

### 21: 2017/01000. 22: 2017/02/09. 43: 2024/07/23 51: A61K; C07K; C12N; C12Q 71: Intervet International B.V. 72: XUE, Wenzhi, WASMOEN, Terri Lee, PETERS, Catherine M., MELLENCAMP, Mark W., TRIGO, Emilio 33: US 31: 62/045,183 32: 2014-09-03

# 54: ATTENUATED BOVINE CORONAVIRUS AND RELATED VACCINES

The present invention discloses novel attenuated bovine coronavirus isolates, compositions comprising these isolate, and methods of using such compositions in vaccines, including in live vaccines. The present invention further discloses the administration of such vaccines, including the intranasal administration of such vaccines, to aid in the prevention of respiratory disease caused by bovine coronavirus.

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21: 2017/01766. 22: 2017/03/10. 43: 2024/07/23 51: B67D; B60S; G01M 71: FRANKLIN FUELING SYSTEMS, INC. 72: WALSH, JAY JERARD, O'LEARY, LISA MARIE, NELSON, BILL 33: US 31: 62/036,077 32: 2014-08-11 33: US 31: 62/042,145 32: 2014-08-26 54: MONITORING SYSTEM FOR A REFUELING STATION

00: -

Fuel management systems 100 for a fuel dispensing facility including a fuel delivery system 10 which includes at least one storage tank 26, 106, a dispenser 12 configured to receive the fuel from the storage tank, and a fuel handling system configured to one of deliver the fuel to the storage tank, receive the fuel from the storage tank, monitor for a leak within the fuel delivery system, and monitor for a fuel inventory within the fuel delivery system. The fuel management system includes installation records of the fuel handling components and monitor cameras positioned in sumps 705 of the fuel delivery system. The fuel delivery system may include a camera 500 positioned to monitor an interior of a sump, the interior of the sump being provided by a sump basin 750 and a sump cover 752, which may be a dispenser or another portion of the fuel delivery system.



21: 2017/02984. 22: 2017/04/28. 43: 2024/07/17 51: H04B 71: LISNR, Inc. 72: KNAUER, William 33: US 31: 62/064,468 32: 2014-10-15 **54: INAUDIBLE SIGNALING TONE** 00: -A method of encoding, and decoding, a human-

inaudible acoustic signal 240 embedded within audio content, suitable for use within the processor of an encoding and broadcasting system or a decoding and receiving system 200, 202. A binary message is encoded into a sequence 1000, 2000 of symbols selected from a group of four or eight symbols, each symbol encoding two or three binary bits with an associated frequency. The human-inaudible acoustic signal may have a variable length, with the length of the signal encoded in a header 1002-1008, 2002-2009. The encoding uses both forward error correction and cyclic redundancy coding to increase the robustness of the transmission. Furthermore, the binary bits encoded by the symbols are selected such that a Hamming distance of a single bit transformation exists between symbols associated with adjacent frequencies, so that a frequency error creates only a single bit error.



21: 2017/04778. 22: 2017/07/14. 43: 2023/07/18 51: F02M 71: BUNJES, Douglas David 72: BUNJES, Douglas David 33: US 31: 62/097,495 32: 2014-12-29 33: US 31: 62/097,506 32: 2014-12-29 54: INTERNAL COMBUSTION ENGINE, COMBUSTION SYSTEMS, AND RELATED METHODS AND CONTROL METHODS AND SYSTEMS 00: -

Embodiments disclosed herein relate to internal combustion engines, combustion systems that include such internal combustion engines, and controls for controlling operation of the combustion engine. The internal combustion engine may include one or more mechanisms for injecting fuel, air, fuelair mixture, or combinations thereof directly into one or more cylinders, and controls may operate or direct operation of such mechanisms.



21: 2018/01083. 22: 2018/02/16. 43: 2024/06/27 51: A61K; A61P; C07K; C12N 71: 3D Medicines (Beijing) Co., Ltd., Jiangsu

Alphamab Biopharmaceuticals Co., Ltd. 72: XU, Ting, DONG, Yanrong, WANG, Pilin, CHEN, Ting

# 33: CN 31: 201510465481.8 32: 2015-07-31 54: SINGLE DOMAIN ANTIBODY FOR PROGRAMMED DEATH-LIGAND (PD-L1) AND DERIVED PROTEIN THEREOF

00: -

The present invention relates to the biomedical field, and provides a single domain antibody for programmed death-ligand (PD-L1) and a derived protein thereof. The present invention also provides a use of a PD-L1 binding molecule in treating and/or preventing and diagnosing a PD-L1 related disease, such as tumor.

21: 2018/01088. 22: 2018/02/16. 43: 2024/07/02 51: A24C; A24D; B65B; B65D

71: British American Tobacco Mexico, S.A. DE C.V. 72: ARREDONDO, Lucio

### 54: A METHOD FOR MANUFACTURING DIFFERENT TYPES OF SMOKING ARTICLE 00: -

A method for concurrently manufacturing two different types of smoking article using a smoking article manufacturing machine is disclosed. The machine comprises a filter rod feeder, a rod attachment unit for attaching rods of smokable material to each longitudinal end of a dual length filter rod received from the filter rod feeder, and a cutter to cut the dual length filter rod into two filter rod segments so that each segment, together with the rod of smokable material attached to each segment, forms a smoking article. The method comprises supplying the filter rod feeder with filter rods comprising filter tow. The filter rods being configured so that the two filter rod segments cut from a dual length filter rod by the cutter will each have a different characteristic. A pack of smoking article industry products, and an intermediate product made during the concurrent manufacture of two different types of smoking article, are also disclosed.



21: 2018/01868. 22: 2018/03/20. 43: 2024/07/29 51: A01N; A01P

71: Bayer CropScience Aktiengesellschaft
72: FAERS, Malcolm, GAERTZEN, Oliver,
RÖCHLING, Andreas, RATSCHINSKI, Arno
33: EP(DE) 31: 15181892.9 32: 2015-08-21
54: OIL-BASED SUSPENSION CONCENTRATES
WITH LOW GRAVITATIONAL SEPARATION AND
LOW VISCOSITY

00: -

The present invention relates to new, oil-based suspension concentrates of agro-chemical active compounds, a process for the preparation of these formulations and their use for the application of the active compounds contained.

21: 2018/02119. 22: 2018/04/03. 43: 2024/06/27 51: A01C

71: PRECISION PLANTING LLC

72: STUBER, Luke

33: US 31: 62/212,419 32: 2015-08-31 54: SYSTEMS, METHODS, AND APPARATUS FOR MULTI¿ROW AGRICULTURAL IMPLEMENT CONTROL AND MONITORING 00: -

Systems, methods and apparatus are provided for monitoring and controlling an agricultural implement, including seed planting implements. Systems, methods and apparatus are provided for detecting seeds being conveyed by seed conveyor. Systems, methods and apparatus are provided for monitoring and controlling deposition of secondary crop inputs such as fertilizer and insecticide.



21: 2018/02157. 22: 2018/04/03. 43: 2024/07/29

51: A61B; A61M 71: Becton, Dickinson and Company 72: WOO, Matthew Siang Si, ATTRI, Ravi, NAIR, Arun U., YOO, Bo Yon Lillian 33: US 31: 62/222,807 32: 2015-09-24 54: FIVE-BEVEL CANNULA FOR BLOOD ACQUISITION DEVICES 00: -

A needle including a cannula having a multi-beveled point is disclosed. The multi-beveled point includes a primary bevel, two middle bevels, and two tip bevels. Each of the middle bevels extends between the primary bevel and one of the tip bevels. The primary bevel is provided on the cannula at a first angle of inclination and a first angle of rotation, the two middle bevels are provided on the cannula at a second angle of inclination and a second angle of rotation, and the two tip bevels are provided on the cannula at a third angle of inclination and a third angle of rotation. The third angle of inclination is greater than the second angle of inclination, the second angle of inclination is greater than the first angle of inclination, and the second angle of rotation is equal to the third angle of rotation.



### 00: -A method of culturing autogenous cells as well as a method of treating a mammalian patient is described. The cells are cultured on a substrate

described. The cells are cultured on a substrate material having a surface treated with a fatty acid ester so as to have a strong hydrophobic surface and autogenous plasma obtained from a blood sample of the patient is used as a growth medium in order to culture the cells. The substrate material is also used as a transfer dressing for transferring the cultured cells to the patient and as a wound cover dressing. The invention also describes a kit as well as a system for culturing autogenous cells using the culture method.

71: STELLENBOSCH UNIVERSITY 72: KLEINTJES, Wayne George

54: A METHOD OF CULTURING CELLS

21: 2018/02460. 22: 2018/04/13. 43: 2024/07/16 51: A61K

71: REGENERON PHARMACEUTICALS, INC.

72: CHEN, HUNTER, SCHLESINGER, ERICA

### 33: US 31: 62/242,412 32: 2015-10-16 54: STABLE PROTEIN COMPOSITIONS 00: -

Stable pharmaceutical formulations and drug delivery devices are disclosed. In certain embodiments, the drug delivery device contains a reservoir when implanted into a patient is in partial contact with the tissue environment. The reservoir remains in contact with the environment via a porous structure in the housing of the delivery device. The reservoir contains a combination of the therapeutic biomolecule and a second molecule that serves to stabilize and restrict the solubility of the therapeutic biomolecule, thereby controlling the amount of therapeutic biomolecule that is in solution. The concentration of the soluble therapeutic biomolecule or the size of the surface area of the porous structure controls the rate of delivery of the therapeutic biomolecule to the target tissue.

21: 2018/02443. 22: 2018/04/13. 43: 2024/08/16 51: A61K; A61L; C12M; C12N; A61P



### 21: 2018/04835. 22: 2018/07/18. 43: 2024/06/27 51: A61K

71: Faron Pharmaceuticals Oy

72: JALKANEN, Markku, MAKSIMOW, Mikael, PIIPPO, Ilse

### 33: FI 31: 20165153 32: 2016-02-29 54: A LYOPHILISED PHARMACEUTICAL FORMULATION AND ITS USE 00: -

A pharmaceutical formulation in a lyophilised form, which comprises pharmacologically effective amount of interferon beta-1a as an active ingredient, disaccharides as a bulking agent and a non-ionic surfactant. After reconstitution, the composition can be administered intravenously.



21: 2018/05240. 22: 2018/08/03. 43: 2024/06/27 51: A61K; A61P; C07D 71: Chia Tai Tianqing Pharmaceutical Group Co., Ltd.

72: DING, Zhaozhong, SUN, Fei, HU, Yinghu, ZHOU, Yilong, WANG, Zheng, ZHAO, Rui, YANG, Ling

33: CN 31: 201610081899.3 32: 2016-02-05

### 54: TLR7 AGONIST TRIFLUOROACETATE SALT AND CRYSTALLINE FORM B THEREOF, PREPARATION METHODS AND USES 00: -

The present invention relates to a trifluoroacetate salt of a TLR7 agonist 2-butoxy-7-(4-(pyrrolidin-1ylmethyl)benzyl)-5H-pyrrolo[3,2-d]pyrimidin-4-amine (formula I), crystalline form B of the trifluoroacetate salt, methods for preparing the trifluoroacetate salt and crystalline form B, and uses of the trifluoroacetate salt and crystalline form B.



- 21: 2018/05408. 22: 2018/08/14. 43: 2024/07/18 51: A61K: A61P
- 71: Debiopharm International S.A.

72: VUAGNIAUX, Grégoire, KADI, Linda, WITTKE, Frederick

33: EP(CH) 31: 16157688.9 32: 2016-02-26 33: EP(CH) 31: 16157685.5 32: 2016-02-26 54: MEDICAMENT FOR TREATMENT OF DIABETIC FOOT INFECTIONS

### 00: -

The present invention provides means and methods for treating diabetic foot infections. In particular, drug compounds are provided that combine a high therapeutic activity against *Staphylococcus Spp.* bacteria with a high degree of bone penetration and vasodilatory effects. This unique combination of properties allows to accomplish high local concentrations of the drug at the site of infection even in diabetic foot patients typically having poor blood perfusion at the site of infection.

- 21: 2018/06397. 22: 2018/09/26. 43: 2024/06/28
- 51: A61K; C07K; G01N
- 71: Faron Pharmaceuticals Oy

72: MAKSIMOW, Mikael, JALKANEN, Markku, VAINIO, Marita

33: FI 31: 20165335 32: 2016-04-18

33: FI 31: 20165336 32: 2016-04-18

54: HUMANIZED ANTI CLEVER-1 ANTIBODIES AND THEIR USE

This invention relates to an agent and a humanized antibody or single chain Fv or Fab fragment capable of binding to human CLEVER-1 recognizing an epitope of CLEVER-1, wherein the epitope is discontinuous and comprises the sequences: PFTVLVPSVSSFSSR and QEITVTFNQFTK. This invention relates also an agent capable of binding to an epitope of human CLEVER-1 for use in removing tumour or antigen induced immunosuppression.

<sup>00: -</sup>

Further, the invention relates to a pharmaceutical composition comprising the agent capable of binding to human CLEVER-1 and an appropriate excipient.



21: 2018/06477. 22: 2018/09/28. 43: 2024/07/16 51: A61K; C07K; C12N

71: The Trustees of the University of Pennsylvania 72: WANG, Lili, WILSON, James M., SIDRANE,

## Jenny Agnes

### 33: US 31: 62/323,336 32: 2016-04-15 54: GENE THERAPY FOR TREATING HEMOPHILIA A

00: -

Compositions and regimens useful in treating hemophilia A are provided. The compositions include recombinant adeno-associated virus (rAAV) with a transthyretin enhancer and promoter driving expression of a human Factor VIII.

21: 2018/06903. 22: 2018/10/16. 43: 2024/06/25 51: A01N

71: Consejo Superior de Investigaciones Científicas (CSIC), Universidad de La Laguna
72: JIMÉNEZ ARIAS, David, BORGES
RODRÍGUEZ, Andrés, BOTO CASTRO, Alicia,
VALDÉS GONZÁLEZ, Francisco, PÉREZ PÉREZ,
José Antonio, LUIS JORGE, Juan Cristo
33: ES 31: P 201630317 32: 2016-03-17
54: USE OF NON-PROLINE CYCLIC AMINO
ACIDS TO INCREASE THE TOLERANCE OF
PLANTS TO CONDITIONS OF OSMOTIC STRESS
00: -

The present invention relates to the use of nonproline cyclic amino acids of general formula (I), wherein n, X, Y and Z have the meaning indicated in the description, to increase the tolerance of plants to conditions of osmotic stress resulting from a lack of water in the environment. The non-proline amino acids used in the invention are of natural origin and are much more effective than other known amino acids used for the same purpose. This invention can therefore be considered very useful for preventing economic losses caused by a reduction in yield in agricultural crops.



21: 2018/07091. 22: 2018/10/24. 43: 2024/06/28 51: G06F; G06Q; H04L 71: nChain Holdings Limited 72: WRIGHT, Craig Steven, SAVANAH, Stephane 33: GB 31: 1607477.5 32: 2016-04-29 54: A METHOD AND SYSTEM FOR CONTROLLING THE PERFORMANCE OF A CONTRACT USING A DISTRIBUTED HASH TABLE AND A PEER-TO-PEER DISTRIBUTED LEDGER

# 00: -

A computer-implemented method (100) and system (1) for controlling the performance of a smart contract. The method includes storing a contract on or in a computer-based repository. The contract is associated with a licence between a first user (U1) and a second user (U2). The method further includes receiving, over a communications network, a transaction comprising a transfer of a token from an agent (A) to the first user (U1) or the second user (U2). The transaction comprises metadata that includes an identifier indicative of a location where the contract is stored. The method further includes querying a peer-to-peer distributed ledger (i.e. blockchain) to determine whether the transaction comprises at least one unspent output (UTXO). The method further includes, responsive to querying the peer-to-peer distributed ledger, determining whether to modify performance of the contract. The blockchain may be the Bitcoin blockchain.



21: 2018/07092. 22: 2018/10/24. 43: 2024/06/28 51: G06F: G06Q

71: nChain Holdings Limited

72. WRIGHT Craig Steven SAVANAH Stephane
33: GB 31: 1607553.3 32: 2016-04-29
33: GB 31: 1607539.2 32: 2016-04-29
33: GB 31: 1607541.8 32: 2016-04-29
33: GB 31: 1607566.5 32: 2016-04-29
33: GB 31: 1607555.8 32: 2016-04-29
33: GB 31: 1607584.8 32: 2016-04-29
33: GB 31: 1607538.4 32: 2016-04-29
33: GB 31: 1607564.0 32: 2016-04-29
33: GB 31: 1607525.1 32: 2016-04-29
33: GB 31: 1607561.6 32: 2016-04-29
33: GB 31: 1607569.9 32: 2016-04-29
33: GB 31: 1607472.6 32: 2016-04-29
33: GB 31: 1607537.6 32: 2016-04-29
33: GB 31: 1607520.2 32: 2016-04-29
33: GB 31: 1607530.1 32: 2016-04-29
33: GB 31: 1607527.7 32: 2016-04-29
54: IMPLEMENTING LOGIC GATE
FUNCTIONALITY USING A BLOCKCHAIN

00: -

The invention presents a solution in which blockchain Transactions are created to implement the functionality of a logic gate. The invention may be implemented on the Bitcoin platform or an alternative blockchain platform. The transaction includes a locking script which comprises instructions selected so as to implement the functionality of a logic gate, such as the XOR gate. When the script is executed (because a second transaction is attempting to spend the output associated with the locking script) the inputs will be processed by the conditional instructions to provide an output of TRUE or FALSE. The inputs are preprocessed by one or more computing agents so that they are evaluated to TRUE or FASLE prior to being used as inputs to the script. The second transaction is transmitted to the blockchain network for validation and, if determined to be valid, it will be written to the blockchain. Validation of the second

transaction can be interpreted as a TRUE output. Thus, the locking script of the first transaction provides the functionality of the desired logic gate. The invention provides numerous advantages and can be used in a wide variety of applications, such as for the implementation of control systems and unit.



51: A61K; A61P; C07D 71: Daiichi Sankyo Company, Limited 72: SAITO, Keiji, NAKAJIMA, Katsuyoshi, TANIGUCHI, Toru, IWAMOTO, Osamu, SHIBUYA, Satoshi, OGAWA, Yasuyuki, AOKI, Kazumasa, KURIKAWA, Nobuya, TANAKA, Shinji, OGITANI, Momoko, KIOI, Eriko, ITO, Kaori, NISHIHAMA, Natsumi, MIKKAICHI, Tsuyoshi, SAITOH, Wataru 33: JP 31: 2016-067076 32: 2016-03-30 **54: GRISEOFULVIN COMPOUND** 00: -

21: 2018/07129. 22: 2018/10/25. 43: 2024/07/18

The present invention addresses the problem of providing a compound having an anti-inflammatory activity or a pharmacologically acceptable salt thereof. The solution according to the present invention is a compound represented by general formula (1) or a pharmacologically acceptable salt thereof. [In the formula, symbols are defined as follows: R<sup>1</sup>: a C1-C6 alkyl group or the like; R<sup>2</sup>: a C1-C6 alkyl group; A: an oxygen atom or the like; and R<sup>3</sup>: a C1-C6 alkyl group or the like.]



21: 2018/07177. 22: 2018/10/26. 43: 2024/07/05 51: H04N

71: Hewlett-Packard Development Company, L.P., Purdue Research Foundation
72: TANG, Chuohao, COLLISON, Sean Michael, REIBMAN, Amy Ruth, SHAW, Mark Q., ALLEBACH, Jan P., GONDEK, Jay S.
33: PCT/US 31: 2016/041633 32: 2016-07-08
54: COLOR TABLE COMPRESSION
00: -

A memory device includes a compressed difference color table and corrective information. A difference color table that is compressed includes a plurality of difference nodes in which each difference node represents a value that is a difference of a value of a node an original color table and a value of corresponding node of a reference table. The difference color table is compressed at a selected compression amount. The plurality of difference nodes includes a set of nodes having a color difference outside an error threshold at the selected compression ratio.



- 21: 2018/07438. 22: 2018/11/06. 43: 2024/07/23 51: A61K; A61P
- 71: Oyster Point Pharma, Inc.

72: ACKERMANN, Jr., Douglas Michael, LOUDIN, James, MANDELL, Kenneth J.
33: US 31: 62/319,648 32: 2016-04-07
54: METHODS OF TREATING OCULAR CONDITIONS

#### 00: -

Described herein are methods and pharmaceutical formulations for treating ocular conditions.



- 21: 2018/07585. 22: 2018/11/12. 43: 2024/07/01
- 51: A61K; A61P
- 71: Eli Lilly and Company

72: BENDER, Mark Harrath, GAO, Hong, PATEL, Bharvin Kumar

33: US 31: 62/339,363 32: 2016-05-20 54: COMBINATION THERAPY WITH NOTCH AND PD-1 OR PD-L1 INHIBITORS 00: -

The present invention provides medicaments for use in treating and methods of treating T- cell acute lymphoblastic leukemia, acute lymphoblastic leukemia, chronic lymphoblastic leukemia, acute myelogenous leukemia, chronic myelogenous leukemia, erythroleukemia, triple negative breast cancer, breast cancer, ovarian cancer, melanoma, Sung cancer, non small-cell lung cancer, pancreatic cancer, glioblastoma, colorectal cancer, head and neck cancer, cervical cancer, prostate cancer, liver cancer, oral squamous cell carcinoma, skin cancer, medul!ob!astoma, hepatocellular carcinoma, intrahepatic and extrahepatic cholangiocarcinoma, desmoid tumor, soft tissue sarcoma, or adenoid cystic carcinoma in a patient comprising combination therapy with 4,4,4-trifluoro-N-[(1S)-2~[[(7S)-5-(2hydroxyemyl)-6-oxo-7H-pyrido[23-d][3]benzazepin-7yl]amino]-1-methyl-2-oxo- ethyljbutanamide, or a pharmaceutically acceptable salt or hydrate thereof, and a PD-1 or a PD-L1 inhibitor selected from pembrolizumab, nivolumab, atezolizumab, durvalumab, and avelumab.

21: 2018/07659. 22: 2018/11/14. 43: 2024/07/18 51: A01N; A01P; C07D 71: Syngenta Participations AG

72: JEANMART, Stephane André Marie, ZAMBACH, Werner, RENDINE, Stefano, LAMBERTH, Clemens, BEAUDEGNIES, Renaud, POULIOT, Martin, BONVALOT, Damien

33: EP(CH) 31: 16171966.1 32: 2016-05-30 54: MICROBIOCIDAL THIAZOLE DERIVATIVES 00: -

Compounds of the formula (I): wherein the substituents are as defined in claim 1, useful as pesticides, and especially fungicides.



21: 2018/08123. 22: 2018/11/30. 43: 2024/06/28 51: G21C Nuclear reactors

71: Joint Stock Company "Rosenergoatom", Joint Stock Company "Science and Innovations" 72: IVANOV, Anatoliy Semenovich, SIMONENKO, Vadim Aleksandrovich, LAVRENYUK, Ivan Vladimirovich, ANIKIN, Nikolai Borisovich, TYAKTEV, Aleksandr Anatol'evich, FEDYUSHKIN, Viktor Nikolaevich, POPOV, II'ya Aleksandrovich, BEZGODOV, Evgeniy Vital'evich, PASYUKOV, Sergey Dmitrievich, UL'YANOV, Sergey Mikhailovich, PAVLENKO, Aleksandr Valerievich 33: RU 31: 2017141801 32: 2017-11-30 54: METHOD FOR ENSURING HYDROGEN EXPLOSION SAFETY AT NUCLEAR POWER PLANT

00: -

The invention relates to emergency protection of nuclear power plants, particularly to technologies for mitigation of consequences or fire prevention and prevention of explosive gas accumulation, which ensure hydrogen explosion safety in premises of the containment dome (hereinafter - CNT) at nuclear power plants (hereinafter - NPP) with water-cooled power reactor (hereinafter - VVER). Moreover, the offered invention can be used at other facilities having the risk of development of potentially hazardous emergency processes, related to the emission of a large amount of light combustible gas and its localization in closed premises of a facility. The technical result attained by the declared invention consists in the reduction of the risk of gas medium inflammation in premises of NPP CNT, as well as in the provision of self-damping of weak burning waves, reduction of their intensity in case of gas medium inflammation in premises of NPP CNT and in reduction of dynamic loads on walls of premises of NPP CNT. The specified technical result is attained due to the fact that in the method for ensuring hydrogen explosion safety at nuclear power plants, comprising ventilation of premises of the nuclear reactor premises and hydrogen recombination in premises of the nuclear reactor premises by its catalytic oxidation, in accordance with the declared solution, a reflector (2, 3) is placed on the way of potentially emergency propagation of a pressure hydrogen-containing steam-gas jet, apertures are made in the walls between premises of the nuclear reactor containment dome with a size equal to minimum 35% of the surface area of the said walls, while excess heat is withdrawn in areas of potential localization of hydrogen-containing steam-gas mixture burning sources.



21: 2018/08127. 22: 2018/11/30. 43: 2024/06/28 51: F41A 71: BAE Systems Bofors AB

72: NILSSON, Andreas

33: SE 31: 1630158-2 32: 2016-06-21

54: SYSTEM AND METHOD FOR THE

REVERSIBLE TRANSFER OF AMMUNITION BETWEEN A PRIMARY MAGAZINE AND A

# SECONDARY MAGAZINE IN AN AUTOMATIC CANNON

00: -

The present invention relates to an ammunition loading system (1) for reversible transfer of ammunition (2) between a primary magazine (3) and a secondary magazine (3) in for example an automatic cannon (5). The ammunition loading system (1) comprises at least one secondary magazine (3), a hoisting device (7), a docking and transfer arrangement (60) for the docking of the secondary magazine (3) with the primary magazine (4) and for the transfer of ammunition (2) between the magazines (3,4), as well as a common drive arrangement (23) for synchronous driving of the magazines (3,4) during the transfer of ammunition (2). The invention also relates to a method for reversible transfer of ammunition (2) in for example an automatic cannon (5).



### 21: 2018/08134. 22: 2018/11/30. 43: 2024/07/01 51: A23G

- 71: Société des Produits Nestlé S.A.
- 72: GERMAN, Jamey, VIEIRA, Josélio Batista 33: EP(CH) 31: 16186233.9 32: 2016-08-30

### 54: AERATED CHOCO-MATERIAL

00: -

There is described a micro aerated choco-material having a plastic viscosity before aeration as measured according to ICA method 46 (2000) of from 0.1 to 20 Pa.s, where:(i) the composition has dispersed therein bubbles of an inert gas, the dispersed bubbles being characterised by the following parameters (a) mean bubble size less than or equal to 100 microns, (b) standard derivation of bubble size less than or equal to 60 microns; (c) a total bubble surface area of from 0.5 to 1.2 m<sup>2</sup> per 100g of the aerated choco-material; where parameters (a) and (b) are determined from X-ray tomography and/or confocal laser scanning microscopy (CLSM) and (ii) the gas bubbles are homogenously distributed within the aerated choco-material, having a homogeneity index of at least 0.8.



21: 2018/08378. 22: 2018/12/12. 43: 2024/08/14 51: A23L 71: SHALON, Tidhar 72: SHALON, Tidhar 33: US 31: 62/459,585 32: 2017-02-15 33: US 31: 62/467,714 32: 2017-03-06 33: US 31: 62/487,477 32: 2017-04-19 54: HYBRID MEAT PRODUCT AND METHOD OF PRODUCTION

00: -

A beef-like hybrid meat product combining two families of animal is provided, along with methods of producing the beef-like hybrid meat product.



- 21: 2019/00694. 22: 2019/02/01. 43: 2024/07/25 51: A61K; A61P; C07D
- 71: AstraZeneca AB

72: SCOTT, James Stewart, BARLAAM, Bernard Christophe, YANG, Bin, MOSS, Thomas Andrew, HUGHES, Samantha Jayne, NISSINK, Johannes Wilhelmus Maria, O'DONOVAN, Daniel Hillebrand 33: US 31: 62/411,799 32: 2016-10-24

54: 6,7,8,9-TETRAHYDRO-3H-PYRAZOLO[4,3-F]ISOQUINOLINE DERIVATIVES USEFUL IN THE TREATMENT OF CANCER

### 00: -

The specification relates to compounds of Formula (I) and to pharmaceutically acceptable salts thereof, to processes and intermediates used for their preparation, to pharmaceutical compositions containing them and to their use in the treatment of cell proliferative disorders.



21: 2019/00840. 22: 2019/02/08. 43: 2024/06/28 51: B04C

#### 71: FLSmidth A/S

72: BUTTLER, Barry Michael, BOCHICCHIO, Matthew Peter, CULBERTSON, Jon Robert, SINGER, Robert Bennett

### 33: US 31: 62/373,068 32: 2016-08-10 54: WIRELESS HYDROCYCLONE ROPING AND WEAR MANAGEMENT SYSTEM 00: -

A new and improved hydrocyclone roping and wear management system and method for its use are provided. The system includes one or more wireless electronic roping sensors and/or one or more wireless electronic wear sensors disposed in communication with one or more hydrocyclones, along with a wireless electronic controller. The system is capable of wirelessly detecting roping and/or wear conditions within one or more hydrocyclone separators during their operation, communicating electronic data corresponding to the roping and/or wear conditions to an associated hydrocyclone control system, and causing adjustments in controlling operational parameters for the hydrocyclones. The associated method includes steps for wirelessly acquiring roping and/or wear condition data using the wireless electronic controller and delivering the data to the hydrocyclone control system. The system and method provide for improved roping detection and wear maintenance scheduling, and improved adjustment of undesirable roping and wear conditions.



### 21: 2019/01344. 22: 2019/03/04. 43: 2024/07/01 51: A23L; A61K

71: Société des Produits Nestlé S.A.

72: DESTAILLATS, Frederic, PETIT, Valérie 33: EP(CH) 31: 16183006.2 32: 2016-08-05 54: LIPID COMPOSITION FOR USE IN INFANTS AND YOUNG CHILDREN FOR PROMOTING GUT COMFORT AND OPTIMAL FAT AND CALCIUM ABSORPTION 00: -

The present invention relates to a nutritional composition, for infants and young children (about 12 to 36 months) in which the sum of the triacylglycerols (TAG) sn-1(3) palmitic acid (PA), myristic acid (MA) and stearic acid (SA) constitutes less than 13.0% of the TAG. The composition promotes absorption of fatty acids and calcium in the gut, improves gut comfort, decreases abdominal pain associated with hard stool formation, promotes regular bowel movements and reduces the incidence and severity of constipation in infants and young children (up to the age of about three years old). The composition also promotes bone mineralization, increasing bone strength and bone mineral density.



21: 2019/01345. 22: 2019/03/04. 43: 2024/07/22 51: A61K; A61P

71: Sanofi Pasteur, Inc., SK Bioscience Co., Ltd. 72: AN, Kyungjun, CHOI, Wooyoung, HAM, Dongsoo, KIM, Hun, SHIN, Jinhwan, HOPFER, Robert, KENSINGER, Richard D., KYAW, Moe, DESAUZIERS, Eric, EL GUERCHE SEBLAIN, Clotilde, TALAGA, Philippe

### 33: US 31: 62/371,529 32: 2016-08-05 54: MULTIVALENT PNEUMOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE COMPOSITION

#### 00: -

Provided are mixed carrier, multivalent pneumococcal conjugate compositions comprising 16 different capsular polysaccharide-protein pneumococcal conjugates, wherein each of the conjugates includes a capsular polysaccharide from a different serotype of Streptococcus pneumoniae conjugated to either tetanus toxoid or CRM197, wherein the Streptococcus pneumoniae serotypes are selected from 1, 3, 4, 5, 6A, 6B, 7F, 9V, 12F, 14, 18C, 19A, 19F, 22F, 23F, and 33F, wherein two of the capsular polysaccharides are conjugated to tetanus toxoid and the remaining capsular polysaccharides are conjugated to CRM197, and wherein the two capsular polysaccharides that are conjugated to tetanus toxoid are selected from the group consisting of serotypes 1, 3, and 5. Also provided are methods of producing the mixed carrier, multivalent pneumococcal conjugate compositions and methods of using the same for prophylaxis against Streptococcus pneumoniae infection or disease in a subject.

21: 2019/01346. 22: 2019/03/04. 43: 2024/07/22 51: A61K

71: Sanofi Pasteur, Inc., SK Bioscience Co., Ltd. 72: AN, Kyungjun, CHOI, Wooyoung, HAM, Dongsoo, KIM, Hun, SHIN, Jinhwan, HOPFER, Robert, KENSINGER, Richard D., KYAW, Moe, DESAUZIERS, Eric, EL GUERCHE SEBLAIN, Clotilde, TALAGA, Philippe 33: US 31: 62/371,553 32: 2016-08-05 54: MULTIVALENT PNEUMOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE COMPOSITION 00: - Provided are mixed carrier, multivalent pneumococcal conjugate compositions comprising 20 different pneumococcal capsular polysaccharide-protein conjugates, wherein each of the conjugates includes a capsular polysaccharide from a different serotype of Streptococcus pneumoniae conjugated to either tetanus toxoid or CRM197, wherein the Streptococcus pneumoniae serotypes are selected from 1, 3, 4, 5, 6A, 6B, 7F, 8, 9V, 10A, 11A, 12F, 14, 15B, 18C, 19A, 19F, 22F, 23F, and 33F, wherein two of the capsular polysaccharides are conjugated to tetanus toxoid and the remaining capsular polysaccharides are conjugated to CRMig7, and wherein the two capsular polysaccharides that are conjugated to tetanus toxoid are selected from the group consisting of serotypes 1, 3, and 5. Also provided are methods of producing the mixed carrier, multivalent pneumococcal conjugate compositions and methods of using the same for prophylaxis against Streptococcus pneumoniae infection or disease in a subject.





21: 2019/01383. 22: 2019/03/05. 43: 2024/07/22 51: F41G

71: Cammenga Company, LLC.

72: KARCHON, Christopher J., KARCHON,

Alexander J.

33: US 31: 62/375,928 32: 2016-08-17 54: TRITIUM HOUSING

#### 00: -

A tritium housing includes a body extending from a first end to a second end to define a hollow extending therebetween. A lens is disposed adjacent and surrounded by the first end of the body and a tritium vial is disposed within the hollow to produce illumination visible through the lens. The body is comprised of a colored plastic material for magnifying and brightening the tritium illumination during a daylight use of the tritium housing.



21: 2019/01993. 22: 2019/03/29. 43: 2024/07/22

51: B65G; E21F; G01S; G05D

71: Sandvik Intellectual Property AB

72: RIEGER, Hubert

54: SCANNING-BASED STEERING OF A MOBILE HAULAGE SYSTEM FOR CONTINUOUSLY CONVEYING FRAGMENTED MATERIAL 00: -

The invention relates to an operation arrangement and a method for operating a mobile haulage arrangement for continuously conveying fragmented material in a conveying direction. The operation arrangement comprises a first and a second operation unit arranged at a first or second transport unit, respectively and adapted for exchanging, storing and processing data and for generating a steering signal for steering the first or second transport unit, respectively. The first and second operation units comprise first and second sensors to scan at least a section of the surroundings. The operation arrangement is adapted to compare second scan results from the second sensor with first scan results from the first sensor, with the second scan results being obtained at a travel position of the second transport unit corresponding to a travel position of the first transport unit at which the first scan results were obtained.



21: 2019/02052. 22: 2019/04/02. 43: 2024/08/21 51: A61K; A61P

71: Mexichem Fluor S.A. de C.V.

72: CORR, Stuart, NOAKES, Timothy James

33: GB 31: 1615908.9 32: 2016-09-19

33: GB 31: 1620515.5 32: 2016-12-02

# 54: PHARMACEUTICAL COMPOSITION 00: -

A pharmaceutical composition is described. The composition comprises:(i) a drug component comprising at least one beclomethasone compound selected from beclomethasone and the pharmaceutically acceptable derivatives thereof and at least one long acting beta-2-agonist; (ii) a propellant component comprising 1,1- difluoroethane (HFA-152a); and (iii) glycerol.

21: 2019/02563. 22: 2019/04/23. 43: 2024/07/29 51: A61K; C08B 71: Janssen Pharmaceuticals, Inc.

72: LABOVITIADI, Olga, TONNIS, Wouter Frank, DORO, Francesco, ADRIAANSEN, Janik 33: EP(NL) 31: 16195256.9 32: 2016-10-24 54: EXPEC GLYCOCONJUGATE VACCINE FORMULATIONS 00: -

Compositions and methods for inducing an immune response against extra-intestinal pathogenic *Escherichia coli* (ExPEC) are described. In particular, multivalent vaccines containing *E. coli* antigen polysaccharide covalently bound to a exotoxin A of *Pseudomonas aeruginosa* (EPA) carrier protein that can withstand multiple environmental stresses are described.

21: 2019/02584. 22: 2019/04/24. 43: 2024/07/23

### 51: A61K; A61P

71: UNITED CANNABIS CORP. 72: VERZURA, TONY, BLACKMON, EARNIE 33: US 31: 62/068,278 32: 2014-10-24 33: US 31: 62/066,795 32: 2014-10-21 54: CANNABIS EXTRACTS AND METHODS OF PREPARING AND USING SAME 00: -

The invention relates to the extraction of pharmaceutically active components from plant materials, and more particularly to the preparation of a botanical drug substance (BDS) for incorporation in to a medicament. It also relates to a BDS, for use in pharmaceutical formulations. In particular it relates to BDS comprising cannabinoids obtained by extraction from cannabis.

21: 2019/02950. 22: 2019/05/10. 43: 2024/07/16 51: C07K; A61K

71: ZEALAND PHARMA A/S

72: DUE LARSEN, BJARNE, GRIFFIN, JONATHAN, GIEHM, LISE, EDWARDS, ALISTAIR VINCENT GORDON

33: DK 31: PA201600757 32: 2016-12-09 54: ACYLATED GLP-1/GLP-2 DUAL AGONISTS 00: -

The invention relates to compounds having agonist activity at the GLP-1 (glucagon-like-peptide 1) and GLP-2 (glucagon-like peptide 2) receptors. The compounds find use, inter alia, in the prophylaxis or treatment of intestinal damage and dysfunction, regulation of body weight, and prophylaxis or treatment of metabolic dysfunction.

21: 2019/03038. 22: 2019/05/15. 43: 2024/07/16 51: H01H; H02H

71: Eaton Intelligent Power Limited

72: ASKAN, Kenan

33: DE 31: 10 2016 120 071.9 32: 2016-10-21

54: LOW-VOLTAGE CIRCUIT BREAKER DEVICE 00: -

The invention relates to a low-voltage circuit breaker device (1) comprising at least one outer conductor path (2) and one neutral conductor path (5), a mechanical bypass switch (8) being arranged in said outer conductor path (2), a semiconductor circuit arrangement (11) being connected in parallel to the bypass switch (8), a current measuring arrangement (12) being arranged in the outer conductor path (2) and connected to an electronic control unit (13) of said circuit breaker device (1), and the electronic control unit (13) being designed to actuate the bypass switch (8) and the first semiconductor circuit arrangement (11) upon detection of a predefined overload current by the current measuring arrangement (12), said semiconductor circuit arrangement (11) comprising at least one first semiconductor component assembly (65) and one second semiconductor component assembly (66), the first semiconductor component assembly (65) being positioned on a first side (61) of a component carrier (60), and the second semiconductor component assembly (66) being positioned on a second side (62) of the component carrier (60), where the second side faces away from the first side (61).



21: 2019/03192. 22: 2019/05/21. 43: 2024/07/03 51: B01J

71: BASF SE

72: PARVULESCU, Andrei-Nicolae, MÜLLER, Ulrich, LÜTZEL, Hans-Jürgen, UHL, Georg, TELES, Joaquim, Henrique, RIEDEL, Dominic, URBANCZYK, Daniel, WEGERLE, Ulrike, WEBER, Markus, WOERZ, Nicolai, Tonio, MUELLER, Christian, SCHMITT, Ruediger, ROMANI FERNANDEZ, Xiana, WUERZ, Harald 33: EP 31: 16205266.6 32: 2016-12-20 54: USE OF AN ACID TREATMENT TO DECREASE THE PLASTICITY OF A COMPOSITION COMPRISING A TITANIUM-CONTAINING ZEOLITIC MATERIAL HAVING FRAMEWORK TYPE MWW 00: -

Use of an acid-treated titanium-containing zeolitic material having framework type MWW for preparing a composition having a relative plasticity of less than 1.

21: 2019/03285. 22: 2019/05/24. 43: 2024/07/11

72: KASAHARA, AKIRA

<sup>51:</sup> B65H

<sup>71:</sup> MAX CO., LTD.

### 33: JP 31: 2016-135746 32: 2016-07-08 33: JP 31: 2015-145259 32: 2015-07-22 **54: REEL**

### 00: -

This invention concerns a reel comprising a cylindrical hub that includes a winding part where a wire is windable and first and second flanges that are spaced in an axial direction along the hub and that include facing surfaces with the winding part interposed therebetween. A plurality of first information display portions are formed on a surface opposite to the facing surface of the first flange and are disposed on a first circumference radially spaced from a shaft center of the hub. A second information display portion is formed on the surface of the first flange and that is disposed on a second circumference having a diameter smaller than that of the first circumference about the shaft center of the hub. The second information display portion is offset in a circumferential direction from each of said plurality of first information display portions such that at least part of said second information display portion is positioned so that a radial line extending from said shaft center and through said at least part of said second information display portion does not extend through any of said plurality of first information display portions.



21: 2019/03400. 22: 2019/05/29. 43: 2024/07/22 51: A61K

71: Zoetis Services LLC, United States of America as represented by the Secretary of Agriculture 72: DOMINOWSKI, Paul Joseph, WILMES, Lauren, FOSS, Dennis L., MOHR, Kaori, GALLO, Guillermo, HARDHAM, John Morgan, KREBS, Richard Lee, LIGHTLE, Sandra Ann Marie, MAHAN, Suman,

### MEDIRATTA, Sangita, MWANGI, Duncan, RAI, Sharath K., SALMON, Sarah A., VORA, Shaunak, GAY, Cyril Gerard, RODRIGUES, Luis Leandra, KRUG, Peter William, RIEDER, Aida Elizabeth 33: US 31: 61/879,959 32: 2013-09-19 54: OIL-BASED ADJUVANTS 00: -

The instant invention provides various formulations comprising combinations of immunostimulating oligonucleotides, polycationic carriers, sterols, saponins, quaternary amines, TLR-3 agonists, glycolipids, and MPL-A or analogs thereof in oil emulsions, use thereof in preparations of immunogenic compositions and vaccines, and use thereof in the treatment of animals.

### 21: 2019/03401. 22: 2019/05/29. 43: 2024/07/22 51: A61K

71: Zoetis Services LLC

72: DOMINOWSKI, Paul Joseph, WILMES, Lauren, FOSS, Dennis L., MOHR, Kaori, GALLO, Guillermo, HARDHAM, John Morgan, KREBS, Richard Lee, LIGHTLE, Sandra Ann Marie, MAHAN, Suman, MEDIRATTA, Sangita, MWANGI, Duncan, RAI, Sharath K., SALMON, Sarah A., VORA, Shaunak 33: US 31: 61/879,959 32: 2013-09-19 54: OIL-BASED ADJUVANTS

# 00: -

The instant invention provides various formulations comprising combinations of immunostimulating oligonucleotides, polycationic carriers, sterols, saponins, quaternary amines, TLR-3 agonists, glycolipids, and MPL-A or analogs thereof in oil emulsions, use thereof in preparations of immunogenic compositions and vaccines, and use thereof in the treatment of animals.

- 21: 2019/03493. 22: 2019/05/31. 43: 2024/07/16
- 51: C10M; C10N
- 71: Afton Chemical Corporation
- 72: RANSOM, Paul
- 33: US 31: 16/000,362 32: 2018-06-05
- 54: LUBRICANT COMPOSITION AND DISPERSANTS THEREFOR HAVING A

BENEFICIAL EFFECT ON OXIDATION STABILITY 00: -

A lubricant composition having greater than 50 percent by weight of a base oil, a dispersant composition comprising: i) optionally a first dispersant comprising oneor more reaction products of at least one polyisobutenyl succinic acid or

anhydride having a polyisobutenyl group with a number average molecular weight that isless than or equal to 1300, and at least one polyamine; and ii) a second dispersant comprising one or more reaction products of at least one polyisobutenylsuccinic acid or anhydride having a polyisobutenyl group with a number average molecular weight greater than 1300, and at least one polyamine; and at least oneashless antioxidant; and wherein a weight ratio of the second dispersant to the dispersant composition is 0.66:1 to 1:1 or a ratio of the weight percentages ofnitrogen contributed by the second dispersant to nitrogen of the dispersant composition is 0.62:1 to 1:1.

21: 2019/04104. 22: 2019/06/24. 43: 2024/07/22 51: E21F; G01D; G01J; G01R; H04W 71: Newtrax Holdings Inc. 72: CERVINKA, Alexandre 33: US 31: 62/430,869 32: 2016-12-06 54: SAFETY DEVICE AND METHOD TO PREVENT USE OF THE SAME DEVICE IF FAULTY 00: -

The present invention discloses a safety devices adapted to prevent workers from going into hazardous environment, such as underground using the faulty safety device. As a safety device, typically embodied as a cap lamp, must be charged prior to each use, the device is adapted to detect when the device is removed from the charger. The device starts to blink continuously when disconnected from the charger. An automated test procedure is completed on the device. The user may also complete a manual portion of the test procedure to make the device usable. When the test procedure is completed successfully, the lamp stops blinking. If the test procedure is not successful, the lamp continues blinking to effectively prevent user from using a faulty device.



21: 2019/04253. 22: 2019/06/28. 43: 2024/08/19 51: F16B

71: PERI SE

72: Gu¿nzburger Straße 10, GAISER, Andre¿ 33: DE 31: 20 2018 104 007.3 32: 2018-07-12 54: INSERTABLE COUPLING FOR FRAME ELEMENTS OF A SCAFFOLDING 00: -

The invention relates to a coupling pin clip (10) for a coupling piece (16) for the connection of two components that are inserted between them. To affix the insertable coupling at the ends of the coupling piece (16), a pin is insertable both through a hole of the component and through a hole of the coupling piece. The coupling pin clip (10) is U-shaped, the legs of which have a distance from each other that corresponds to the distance of the two holes in the coupling piece (16). Furthermore, the coupling pin clip (10) comprises a tipping finger (14) articulated at one end of the coupling pin clip (10).



- 21: 2019/04371. 22: 2019/07/03. 43: 2024/08/14 51: A61K; C07C; A61P 71: RHEA GENETICS PTE. LTD.
- 71. RHEA GENETICS FTE. LTD.
- 72: BABIKYAN, Gaik, JIARAVANON, Benjamin

### 33: GB 31: 1700404.5 32: 2017-01-10 54: COMPOUNDS AND COMPOSITIONS 00: -

Disclosed are compounds having the following formula: (I) wherein R is an alkane chain having between 8 and 20 carbon atoms, and A is one or more anions having a total charge of -2; or R is a quaternary amine having the following formula: (Ia) wherein Ra and Rb are each an alkane chain having between 8 and 20 carbon atoms, and A is one or more anions having a total charge of -3.





21: 2019/05402. 22: 2019/08/15. 43: 2024/07/04 51: A61K; A61P; C07D

71: Merck Patent GmbH

72: GARDNER, John Mark Francis, BELL, Andrew Simon

# 33: GB 31: 1700692.5 32: 2017-01-16 54: COMPOUNDS AND THEIR USE IN THE TREATMENT OF SCHISTOSOMIASIS

00: -

The present invention relates to novel compounds and pharmaceutically acceptable salts or solvates thereof which have activity as inhibitors of *Schistosoma* growth. The invention also relates to pharmaceutical compositions comprising such compounds, salts or solvates and to the use of such compounds as medicaments, in particular in the treatment or prevention of schistosomiasis, also known as bilharzia.

21: 2019/05409. 22: 2019/08/15. 43: 2024/07/04
51: C11D
71: United Laboratories International, LLC
72: MATZA, Stephen D.
33: US 31: 15/407,137 32: 2017-01-16
54: SOLVENT COMPOSITION AND PROCESS
FOR CLEANING CONTAMINATED INDUSTRIAL
EQUIPMENT

00: -

A method, system and composition decontaminate a vessel. In an embodiment, a solvent composition for decontamination includes an amine oxide, polydimethylsiloxane, and water.

21: 2019/05745. 22: 2019/08/30. 43: 2024/07/22 51: G06Q

71: Joint-Stock Company "ASE Engineering Company", Joint Stock Company "Science and Innovations"

72: ALENKOV, Vyacheslav Vladimirovich, YERGOPULO, Serguey Viktorovich, CHEBOTAREV, Yevgeny Mikhaylovich, NOVODVORSKY, Filipp Mikhailovich 54: METHOD FOR MANAGING THE LIFECYCLE OF A COMPLEX UTILITY PLANT AND SYSTEM FOR THE IMPLEMENTATION THEREOF 00: -

The invention relates to automated management methods and can be used for managing the lifecycle of complex utility plants such as, for example, nuclear and thermal power plants, hydroelectric power plants, etc. The invention can be used at the design, construction, operation and decommissioning stages in the lifecycle of a complex utility plant. A system for managing the lifecycle of a complex utility plant allows configuration management, i.e. it provides a process of identifying and documenting attributes of the structures, systems and elements of a plant, and ensures that changes to these attributes are duly drawn up, verified, confirmed, published, applied, tested, recorded and reflected in documentation pertaining to the plant. The technical result of the present invention lies in expediting access to up-todate and reliable information at any of the stages in the lifecycle of a complex utility plant to enable safe and cost-effective decision making, and also improving the reliability of a process for managing (controlling) changes to the state of a plant by applying strict conformity between the status of documentation pertaining to the plant and of the related body of intellectual data in the system, including all of the necessary information regarding requirements applicable to the plant and elements of the plant and a consolidated 3D model of the plant.



- 21: 2019/06443. 22: 2019/09/30. 43: 2024/07/22 51: A61K; A61P; C07D
- 71: MediBeacon Inc.

72: DEBRECZENY, Martin P., RAJAGOPALAN, Raghavan, DORSHOW, Richard B., NEUMANN, William L., ROGERS, Thomas E. 33: US 31: 62/577,962 32: 2017-10-27 54: COMPOSITIONS AND SYSTEMS FOR RENAL

# FUNCTION DETERMINATION

The present disclosure relates to systems and methods for determining the renal glomerular filtration rate or assessing the renal function in a patient in need thereof. The system includes a computing device, a power supply, one or more sensors, and at least one tracer agent that fluoresces when exposed to electromagnetic radiation. The electromagnetic radiation is detected using the sensors, and the rate in which the fluorescence decreases in the patient is used to calculate the renal glomerular filtration rate in the patient.



21: 2019/06995. 22: 2019/10/23. 43: 2024/07/23 51: C07D; A61K; A61P 71: JACOBIO PHARMACEUTICALS CO., LTD. 72: MA, CUNBO, GAO, PANLIANG, HU, SHAOJING, XU, ZILONG, HAN, HUIFENG, WU, XINPING, KANG, DI

33: IB 31: PCT/IB2017/051690 32: 2017-03-23 54: NOVEL HETEROCYCLIC DERIVATIVES USEFUL AS SHP2 INHIBITORS 00: -

This invention relates to certain novel pyrazine derivatives (Formula I) as SHP2 inhibitors which is shown as formula I, their synthesis and their use for treating a SHP2 mediated disorder. More particularly, this invention is directed to fused heterocyclic group derivatives useful as inhibitors of SHP2, methods for producing such compounds and methods for treating a SHP2-mediated disorder.



Formula I

21: 2019/07167. 22: 2019/10/30. 43: 2024/08/12 51: B01L; C12M; C12N; C12Q; G01N 71: DNA GENOTEK INC.

72: JACKSON, Adele, ACERO, Maria Mercedes, DOUKHANINE, Evgueni Vladimirovitch, IWASIOW, Rafal Michal, MERINO HERNANDEZ, Carlos Alberto, BIRNBOIM, H. Chaim, LIBERTY, Jonathan D.

33: US 31: 61/992,993 32: 2014-05-14 54: DEVICE FOR COLLECTING, TRANSPORTING AND STORING BIOMOLECULES FROM A BIOLOGICAL SAMPLE 00: -

The present application provides a sample receiving device comprising a vial, a receptacle in communication with the vial for receiving the sample, and a cap comprising a pusher, the pusher for engaging with the sample in the receptacle. The receptacle comprises a disrupting means for disrupting the sample when the pusher engages with the sample in the receptacle and expels the disrupted sample into the vial. Typically, the device can be used for collecting fecal samples. A method of preserving a biomolecule in the device using a biomolecule preserving composition is also provided.



21: 2019/07255. 22: 2019/10/31. 43: 2024/07/22 51: G06F; G06Q; H04L 71: nChain Holdings Limited 72: CHAN, Ying, KRAMER, Dean 33: GB 31: 1708200.9 32: 2017-05-22 33: GB 31: 1708192.8 32: 2017-05-22 33: GB 31: 1708196.9 32: 2017-05-22 33: GB 31: 1708198.5 32: 2017-05-22

### 33: GB 31: 1708185.2 32: 2017-05-22 33: GB 31: 1708190.2 32: 2017-05-22 54: FORCING THE INJECTION OF A PREVIOUS TRANSACTION'S BYTECODE INTO A BLOCKCHAIN TRANSACTION 00: -

The invention relates to distributed ledge technologies such as consensus-based blockchains. Methods for causing an injection of a serialized previous transaction into a locking script are described. The invention is implemented using a blockchain network, which may be, for example, a Bitcoin blockchain. A first transaction to validate is received at a node in a blockchain network, with the first transaction including a first script. The first script, as a result of being executed, causes the node to at least obtain a first set of field values corresponding to the first transaction and obtain a second set of field values corresponding to a particular transaction. A second transaction is obtained, with the second transaction having been validated and including a second script. The second script, as a result of being executed, causes the node to at least obtain the first set of field values and the second set of field values of the particular transaction supplied as a result of execution of the first script, extract a transaction identifier from the first set of field values, and determine, based at least in part on the second set of field values, that the particular transaction corresponds to the transaction identifier. The first transaction is validated by executing the first script and the second script.



21: 2019/07256. 22: 2019/10/31. 43: 2024/07/22 51: B60T

- 71: Sandvik Mining and Construction Oy
- 72: SUOMI, Jussi

33: EP(FI) 31: 17176175.2 32: 2017-06-15

### 54: BRAKE SYSTEM, MINE VEHICLE AND METHOD OF RELEASING BRAKES 00: -

A brake system, method for controlling the brake system and a mine vehicle provided with the same. The brake system (13) of the mine vehicle (2) comprises spring activated and hydraulically released brake assemblies (14) in connection with wheels (7) of the vehicle. The brake assemblies comprise hydraulic release actuators (RA) which are pressurized for releasing the brakes (15). During normal operation the release actuators are pressurized by means of a main brake circuit (16) and are controlled by a brake controller (BC). A separate release circuit (17) and pressure source (Ps2) may be activated for releasing the brakes when vehicle is disabled. The system further comprises an override device (21) for selectively depressurizing the release actuators during towing.



21: 2019/07552. 22: 2019/11/14. 43: 2024/07/01 51: A61K; A61P 71: AMICUS THERAPEUTICS, INC. 72: DO, HUNG, GOTSCHALL, RUSSELL, KHANNA, RICHIE, LUN, YI, CHAR, HING, TESLER, SERGEY, SUNDERLAND, WENDY, DILONÉ, ENRIQUE 33: US 31: 62/506,574 32: 2017-05-15 33: US 31: 62/618,021 32: 2018-01-16 33: US 31: 62/624,638 32: 2018-01-31 33: US 31: 62/660,758 32: 2018-04-20 33: US 31: 62/506,569 32: 2017-05-15 33: US 31: 62/506,561 32: 2017-09-27 33: US 31: 62/506,561 32: 2017-05-15

### 33: US 31: 62/529,300 32: 2017-07-06 33: US 31: 62/567,334 32: 2017-10-03 54: RECOMBINANT HUMAN ACID ALPHA-GLUCOSIDASE 00: -

Provided are a recombinant acid a-glucosidase and pharmaceutical composition comprising a recombinant acid a-glucosidase, wherein the recombinant acid a-glucosidase is expressed in Chinese hamster ovary (CHO) cells and comprises an increased content of N-glycan units bearing one or two mannose-6-phosphate residues when compared to a content of N-glycan units bearing one or two mannose-6-phosphate residues of alglucosidase alfa. Also provided herein are methods of producing, purifying, and formulating the recombinant acid a-glucosidase or pharmaceutical composition for administration to a subject and methods of treating a disease or disorder such as Pompe disease using the recombinant acid aglucosidase or pharmaceutical composition.

Structure and Receptor Affinity for High Mannose and Phosphorylated Oligosaccharides

 Image: Structure and Receptor Affinity for High Mannose and Phosphorylated Oligosaccharides

 Non-phosporylated High Mannose N-glycan: Mono-M6P N-glycan: High Affinity for CI-MPR (Kn ~ 7000 nM)

 Image: Structure and Receptor Affinity for CI-MPR (Kn ~ 7000 nM)

# 21: 2019/07715. 22: 2019/11/21. 43: 2024/06/25 51: A61K

71: Hipra Scientific, S.L.U.

72: GIBERT PÉREZ, Xavier, SITJÀ ARNAU, Marta 33: EP(ES) 31: 17382358.4 32: 2017-06-09 54: VACCINE COMPRISING CLOSTRIDIUM TOXOIDS 00: -

... "The present invention relates to an immunogenic composition comprising one or more C. difficile toxoid for use in a medicame for animals. The invention also encompasses an immunogenic composition comprising one or more C. difficile A toxoid and one or more C. difficile B toxoid and one or more C. difficile B toxoid and one or more C. perfringens Type A toxoid. The invention also encompasses vaccines comprising said immunogenic compositions, vaccines for use in the treatment and/or prevention of disease caused by C. difficile and C. perfringens and kits thereof.

21: 2020/00276. 22: 2020/01/15. 43: 2024/07/22 51: B60T 71: Westinghouse Air Brake Technologies Corporation 72: WOLF, Charles L., JORDAAN, Wynand Jacobus Coetzee 54: ECP DUMPER BRAKING 00: - Disclosed is a method, system, and computer readable medium including program instructions for controlling the braking of one or more rail cars in a train consist positioned for unloading/loading of cargo. The train consist includes a designated headend and a tail-end and each of the one or more rail cars is equipped with an electronic braking system in communication with a central control via a communication network spanning across the train consist. A dynamic unloading/loading braking profile can be set on at least one electronic braking system on at least one rail car. During unloading/loading of the cargo from one or more rail cars in the train consist, the braking on at least one of the rail cars in the train consist is controlled via the dynamic unloading/loading braking profile.



21: 2020/00307. 22: 2020/01/16. 43: 2024/07/22 51: G06Q; H04L; H04W 71: nChain Holdings Limited 72: FLETCHER, John 33: GB 31: 1711878.7 32: 2017-07-24 54: METHODS AND SYSTEMS FOR BLOCKCHAIN-IMPLEMENTED EVENT-LOCK ENCRYPTION 00: -

There may be provided a computer-implemented method. It may be implemented at least in part using a blockchain network such as, for example, the Bitcoin network. The computer-implemented method includes: i) encrypting a plaintext message to a cryptographic public key in accordance with an identity-based encryption scheme using at least a congress public key to generate an encrypted message, wherein the congress public key is associated with members of a congress, respective members of the congress having access to private key shares usable in a threshold decryption scheme in which at least a threshold of private key shares are sufficient to derive a decryption key through the combination of partial contributions to the decryption

key on behalf of the congress; ii) generating, using at least a cryptographic private key corresponding to the cryptographic public key, a digital signature over a first set of instructions to perform cryptographic operations upon an occurrence of an event; and iii) broadcasting one or more transactions to a proof-ofwork blockchain network, the one or more transactions comprising the encrypted message, the cryptographic public key, at least the first set of instructions, and a second set of instructions to the members of the congress to cooperate to: in response to reaching a consensus on the event occurring and contingent upon the digital signature being authentic, deploy a ghost chain to perform the first set of instructions, wherein performing the first set of instructions includes at least deriving the decryption key from the cryptographic key and a plurality of private key shares that satisfies the threshold, the decryption key being sufficient cryptographic material to obtain the plaintext message from the encrypted message.



21: 2020/00403. 22: 2020/01/21. 43: 2024/07/01 51: B05D

71: SICPA HOLDING SA

72: AMERASINGHE, Cédric, MUELLER, Edgar, LOGINOV, Evgeny, SCHMID, Mathieu, DESPLAND, Claude-Alain

33: EP(CH) 31: 17187930.7 32: 2017-08-25 54: ASSEMBLIES AND PROCESSES FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING ORIENTED NON-SPHERICAL OBLATE MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES

00: -

The present invention relates to the field of optical effect layers (OEL) comprising magnetically oriented non-spherical oblate magnetic or magnetizable

pigment particles on a substrate, spinneable magnetic assemblies and processes for producing said optical effect layers (OEL). In particular, the present invention relates to spinneable magnetic assemblies and processes for producing said OELs as anti- counterfeit means on security documents or security articles or for decorative purposes.



21: 2020/00680. 22: 2020/01/31. 43: 2024/07/09 51: A61K; C07K 71: F. Hoffmann-La Roche AG, NanoString Technologies, Inc. 72: OESTERGAARD, Mikkel Zahle 33: US 31: 62/542,489 32: 2017-08-08 54: OBINUTUZUMAB TREATMENT OF A DLBCL PATIENT SUBGROUP 00: -

The present invention relates to obinutuzumab (or its functional equivalents) for use in the treatment of a particular biomarker-defined DLBCL patient and a novel DLBCL patient subgroup, respectively. The present invention further relates to a method for treating DLBCL with obinutuzumab (or its functional equivalents) in a patient in need thereof, wherein said patient is a particular biomarker-defined DLBCL patient or belongs to a novel biomarker-defined DLBCL patient subgroup. The present invention further relates to the use of obinutuzumab (or its functional equivalents) for the preparation of a pharmaceutical composition for the treatment of DLBCL in the particular biomarker-defined DLBCL patient/novel DLBCL patient subgroup. The present invention further relates to a method for identifying a particular DLBCL patient/novel DLBCL patient subgroup and a method for diagnosing a novel form of DLBCL and a particular DLBCL patient/novel DLBCL patient subgroup, respectively.

21: 2020/00944. 22: 2020/02/13. 43: 2024/07/26 51: E21D

71: Sandvik Intellectual Property AB

72: RATAJ, Mieczyslaw, DARLINGTON, Bradley, YOUNG, Peter

33: AU 31: 2017903382 32: 2017-08-22

54: ROCK BOLT WITH MESHING ADAPTER 00: -

A rock bolt and meshing assembly for installation of meshing sheet against a surface of rock strata. The rock bolt comprises an adapter having a first portion connectable to a trailing end of an elongate shaft of the rock bolt and an elongate extension configured to receive and mount a meshing plate to overlay a second section of meshing sheet against an already laid first section of meshing sheet.



21: 2020/01505. 22: 2020/03/10. 43: 2024/07/01 51: G06Q 71: nChain Holdings Limited

### 72: TREVETHAN, Thomas

### 33: GB 31: 1715423.8 32: 2017-09-22 54: SMART CONTRACT EXECUTION USING DISTRIBUTED COORDINATION 00: -

The invention relates to distributed ledger technologies such as consensus-based blockchains. Computer-implemented methods for smart contract outcome determination are described. The invention is implemented using a blockchain network, which may be, for example, a Bitcoin blockchain. Assent to determine an outcome of a set of conditions is communicated to a set of counterparties, with the set of conditions having a first possible outcome and a second possible outcome. A first private key share corresponding to the first possible outcome and a second private key share corresponding to the second possible outcome are generated using a secret sharing protocol. An amount of a digital asset is transferred to an address associated with a first blockchain transaction. As a result of determining the outcome to be the first possible outcome, the first private key share is revealed within a particular time frame, with the first private key share usable, at least in part, by the set of counterparties to determine the outcome. The blockchain transaction is caused to be validated at a node in a blockchain network.



21: 2020/01528. 22: 2020/03/11. 43: 2024/07/03 51: C12Q 71: GENFIT 72: HANF, Rémy, CORDONNIER, Geneviève, BROZEK, John 33: EP 31: 17306201.9 32: 2017-09-18 54: NON-INVASIVE DIAGNOSTIC OF NON-ALCOHOLIC FATTY LIVER DISEASES, NON-ALCOHOLIC STEATOHEPATITIS AND/OR LIVER FIBROSIS 00: - The present invention relates to a non-invasive method for the diagnosis of a non-alcoholic fatty liver disease, in particular non-alcoholic steatohepatitis, and/ or liver fibrosis, based on the level of miR-452 in a body fluid sample.

21: 2020/01664. 22: 2020/03/17. 43: 2024/07/08 51: C07C; C08G; C08J

71: 9449710 CANADA INC.

72: ESSADDAM, Adel, ESSADDAM, Fares

33: US 31: 15/706,484 32: 2017-09-15

# **54: TEREPHTHALIC ACID ESTERS FORMATION** 00: -

The present disclosure relates to the formation of terephthalate esters of Formula (I) which are formed by the depolymerization of polyethylene terephthalate (PET) or poly(ethylene glycol-co-1,4cyclohexanedimethanol terephthalate). The depolymerization process comprises contacting polyethylene terephthalate or poly(ethylene glycolco-1,4-cyclohexanedimethanol terephthalate) with a solvent for swelling the polyester, an alcoholic solvent, and a sub-stoichiometric amount of an alkoxide. In the Formula (I) R1 and R2 are independently selected from the group consisting of hydrogen, C1-C6 alkyl, C1-C6 haloalkyl, C1-C6 hydroxyalkyl, optionally substituted C3-C8 cycloalkyl, optionally substituted (C1-C6 alkyl)(C3-C8 cycloalkyl), optionally substituted aryl, and optionally substituted (C1-C6 alkyl)(aryl); provided that one of R1 or R2 is not hydrogen.



21: 2020/02097. 22: 2020/05/04. 43: 2024/09/11 51: A61K; C12N 71: GAMIDA-CELL LTD. 72: PELED, Tony 33: US 31: 62/566,554 32: 2017-10-02 54: EXPANSION AND USE OF EXPANDED NK CELL FRACTIONS 00: -

Methods of expanding a natural killer (NK) cell fraction for transplantation into a subject are provided, and particularly, methods for providing transplantable NK cell fractions and protocols for their use, which can be employed for applications in cell transplants and infusions for treatment of cancer and other disease.

- 21: 2020/02107. 22: 2020/05/04. 43: 2024/07/31
- 51: A61K; C07K

71: UNIVERSITÄT BERN

72: PRINCE EL ADNANI, Raja, ANGELILLOSCHERRER, Anne
33: EP 31: PCT/EP2017/077986 32: 2017-11-01
54: USE OF SPECIFIC SIRNA AGAINST PROTEIN
S FOR THE TREATMENT OF HEMOPHILIA

00: -

The invention provides an siRNA against protein S for use in a method of treatment of hemophilia. Also within the scope of the present invention is a method for treating hemophilia in a patient in need thereof, comprising administering to the patient a molecule comprising a siRNA according to the invention, and a dosage form for the prevention or treatment of hemophilia, comprising a molecule comprising a siRNA according to the invention a siRNA according to the invention.

- 21: 2020/02180. 22: 2020/05/04. 43: 2024/07/22
- 51: A61K; A61Q
- 71: Colgate-Palmolive Company

72: DEWDNEY, Nadine, KULKARNI, Pooja, BOYKE, Christine, LESNIAK, Ewelina, KOZUBAL, Cheryl, NYARKO, Samuel, JHA, Brajesh 33: US 31: 62/612,328 32: 2017-12-30 54: PERSONAL CARE COMPOSITIONS

00: -

Disclosed herein are liquid cleansing compositions comprising a foam booster comprising ethoxylated hydrogenated castor oil present in an amount ranging from about 0.5% to about 2% based on the total weight of the composition, castor oil maleate, glycerin, and at least one surfactant, wherein the pH of the composition is less than about 7. The liquid cleansing compositions disclosed herein provide enhanced foam volume and texture. Further disclosed herein are methods of making a liquid cleansing composition.

- 21: 2020/02196. 22: 2020/05/04. 43: 2024/07/22
- 51: G01N; G06T
- 71: F. Hoffmann-La Roche AG
- 72: LIMBURG, Bernd, BERG, Max
- 33: EP(CH) 31: 17198287.9 32: 2017-10-25

### 54: METHODS AND DEVICES FOR PERFORMING AN ANALYTICAL MEASUREMENT 00: -

A method for evaluating the suitability of a mobile device (112) for performing an analytical measurement is disclosed. The mobile device (112) has at least one camera (122). The method comprises: a) providing the at least one mobile device (112) having the at least one camera (122); b) providing at least one reference object (114) having at least one predefined spatial extension (116) in at least one spatial dimension (126); c) taking at least one image (124) of at least part of the reference object (114) by using the camera (122); and d) deriving at least one item of spatial resolution information by using the image, wherein the at least one item of spatial resolution information comprises one or more numerical values, which quantify the capability of the camera of resolving two or more objects in the image.



21: 2020/02279. 22: 2020/05/04. 43: 2024/07/22 51: H01H

- 71: Eaton Intelligent Power Limited
- 72: ASKAN, Kenan
- 33: DE 31: 10 2017 122 218.9 32: 2017-09-26

54: LOW-VOLTAGE CIRCUIT BREAKER DEVICE 00: -

In a low-voltage circuit breaker device (1) having at least one outer conductor path (2) and a neutral

conductor path (5), wherein a mechanical bypass switch (8) is arranged in the outer conductor path (2), wherein a first semiconductor circuit arrangement (11) of the low-voltage circuit breaker device (1) is connected in parallel with the bypass switch (8), wherein a current measurement arrangement (12), which is connected to an electronic control unit (13) of the circuit breaker device (1), is arranged in the outer conductor path (2), it is proposed that a second semiconductor circuit arrangement (14) is arranged in the outer conductor path (2) in series with the bypass switch (8) and in parallel with the first semiconductor circuit arrangement (11) in terms of circuit technology, and that the electronic control unit (13) is configured, in the case of a current arising via the outer conductor path (2) that is greater than the rated current but lower than a trip overcurrent, to first switch on the first semiconductor circuit arrangement (11), then to block the second semiconductor circuit arrangement (14), and subsequently to switch on the first semiconductor circuit arrangement (11) and the second semiconductor circuit arrangement (14) in alternation in a settable manner.



- 21: 2020/02338. 22: 2020/05/04. 43: 2024/07/11 51: C07K; A61K
- 71: WUXI BIOLOGICS IRELAND LIMITED 72: XU, JIANQING, WANG, ZHUOZHI, LI, JING 33: CN 31: PCT/CN2017/103030 32: 2017-09-22 54: NOVEL BISPECIFIC POLYPEPTIDE COMPLEXES

00: -

A polypeptide complex comprises antibody variable regions of the heavy chain and light chain respectively fused to TCR constant regions. A bispecific antigen binding polypeptide complex contains a first antigen-binding moiety of the

polypeptide complex and a second antigen-binding moiety. A method comprises producing the polypeptide complex or the bispecific antigen binding polypeptide complex. A method of treating disease or disorder comprises using the polypeptide complex or the bispecific antigen binding polypeptide complex. A polynucleotide encodes the polypeptide complex and/or the bispecific antigen binding polypeptide complex. A vector or a host cell contains the polynucleotide. A composition and a pharmaceutical composition comprise the polypeptide complex and/or the bispecific antigen binding polypeptide complex.



21: 2020/02366. 22: 2020/05/04. 43: 2024/07/22 51: A61K; A61L; A61P 71: Lo.Li. Pharma S.r.I. 72: UNFER, Vittorio 33: IT 31: 102017000104446 32: 2017-09-19 54: COMPOSITIONS, USES AND METHODS FOR TREATMENT OF INFERTILITY AND SUBFERTILITY

00: -

The present invention relates i.a. to compositions which are suitable for treatment of infertility or subfertility, in particular infertility or subfertility caused by polycystic ovary syndrome (PCOS)or anovulation, or which are suitable for treatment of PCOS or anovulation itself.

21: 2020/02597. 22: 2020/05/08. 43: 2024/07/11 51: F42D; G01V 71: INCITEC PIVOT LIMITED 72: CAVANOUGH, GARY LINDSAY, TORRANCE, ALASTAIR COURTENAY 33: AU 31: 2017904086 32: 2017-10-10 54: A METHOD AND SYSTEM FOR WIRELESS MEASUREMENT OF DETONATION OF EXPLOSIVES 00: -

A system (10) for wireless measurement of detonation of explosives (3) for detonation according to a timed sequence, the system comprising: an antenna (15, 16) for detecting electromagnetic emissions caused by detonation of the explosives and providing an electromagnetic signal representative of the electromagnetic emissions; a data logger (12) operatively connected to the antenna for logging the electromagnetic signal; a trigger for setting the data logger for logging the electromagnetic signal upon detonation of the explosives to produce a recorded blast record; and a comparison arrangement for comparing the timed sequence with the recorded blast record.



21: 2020/02721. 22: 2020/05/13. 43: 2024/07/04 51: C04B

71: CONSTRUCTION RESEARCH & TECHNOLOGY GMBH

72: GRASSL, Harald, DENGLER, Joachim, SCHÖBEL, Alexander, ALBRECHT, Gerhard, PULKIN, Maxim

### 33: EP 31: 17197480.1 32: 2017-10-20 54: SET CONTROL COMPOSITION FOR CEMENTITIOUS SYSTEMS 00: -

A set control composition for cementitious systems comprises (a) an amine-glyoxylic acid condensate, and (b) at least one of (i) a borate source and (ii) a carbonate source. The carbonate source is selected from inorganic carbonates having an aqueous solubility of 0.1 gL-1 or more, and organic carbonates. The set control composition improves
workability of cementitious systems for prolonged periods of time without compromising early compressive strength. Due to the retarding action of the set control composition, the dosage of dispersant(s) necessary to obtain a desired flowability of the cementitious system can be reduced.

21: 2020/02726. 22: 2020/05/13. 43: 2024/07/11 51: A61K

71: COSMO TECHNOLOGIES LTD. 72: MORO, LUIGI, LONGO, LUIGI MARIA 33: US 31: 62/584,226 32: 2017-11-10 54: ORAL RIFAMYCIN SV COMPOSITIONS 00: -

Oral pharmaceutical compositions containing rifamycin SV, or a pharmaceutically salt thereof, characterized in that they are formulated in a higher strength (about 600 mg/tablet) and in such a manner to obtain a modified profile of the rifamycin SV, or a pharmaceutically acceptable salt thereof, in the proximal portion of the intestine, i.e. in the small intestine (duodenum, jejunum and ileum). In one embodiment, the disclosed oral pharmaceutical compositions are used in the prevention and/or treatment in a subject of small intestine bacterial overgrowth (SIBO) and/or irritable bowel syndrome (IBS) and/or in the treatment of cholera. In one embodiment, the disclosed oral pharmaceutical compositions are used in the prevention and/or treatment in a subject of hepatic encephalopathy, hepatic cirrhosis, pouchitis and/or spontaneous bacterial perotinitis. In one embodiment, the disclosed oral pharmaceutical compositions are used in the prevention and/or treatment in a subject of non- alcoholic fatty liver disease, non-alcoholic fatty liver or non-alcoholic steatohepatitis.



21: 2020/02775. 22: 2020/05/14. 43: 2024/07/02 51: C12N; C12M 71: CELULARITY, INC. 72: YE, QIAN 33: US 31: 62/587,335 32: 2017-11-16 54: CULTIVATION OF PLACENTA TO ISOLATE EXOSOMES 00: -

Several approaches to produce, isolate, and characterize exosomes recovered from a cultivated placenta or a portion thereof are provided. The alternatives described herein facilitate the production, isolation, and characterization of exosomes, which can be used as biotechnological tools and therapeutics. Also provided herein are populations of exosomes derived from placenta organ culture or culture of portions of the placenta. Also provided are compositions comprising the populatons of exosomes and methods of their use for the treatment of subjects.

- 21: 2020/02818. 22: 2020/05/15. 43: 2024/08/20
- 51: B29C; B29K; B29L
- 71: PINWELD LIMITED
- 72: CHAPPELL, Keven
- 33: GB 31: 1718751.9 32: 2017-11-13 54: WELDING APPARATUS

00: -

The present invention relates to a welding apparatus (2) that is suitable for welding polymeric materials (8a, 8b), and particularly but not exclusively those that may be thin or brittle. According to the present invention there is a welding apparatus (2) for welding polymeric materials (8a, 8b) along a weld zone (6) of the polymeric material. The welding apparatus (2) comprises a carrier (4) for supplying heat to the weld zone (6) to cause melting of the polymeric material, wherein the heating element (10) is arranged to reciprocate relative to the carrier (4) between a retracted and an extended configuration, such that as the element (10) moves from the retracted to the extended configuration the heating element (10) melts and penetrates the surface of the polymeric material, the carrier (4) further comprising a trailing contact surface (14) trailing the heating element (10) along the weld zone (6) arranged to constrain molten polymeric material in the weld zone (6). The heating element (10) is also arranged to reciprocate relative to the trailing contact surface (14).



21: 2020/02920. 22: 2020/05/19. 43: 2024/07/11 51: C07D; A61P; A61K 71: ONCOSTELLAE, S.L. 72: KURZ, GUIDO, CAMACHO GÓMEZ, JUAN 33: EP 31: 17382741.1 32: 2017-11-06 54: NEW ANALOGS AS ANDROGEN RECEPTOR AND GLUCOCORTICOID RECEPTOR MODULATORS

00: -

The present invention relates to novel dihydropyridine derivatives of formula (I): as modulators of nuclear receptors selected from androgen receptor and glucocorticoid receptor, to processes for their preparation, to pharmaceutical compositions comprising said compounds and to the use of said for manufacturing a medicament for the treatment of pathological conditions or diseases that can improve by modulation of androgen receptor and/or glucocorticoid receptor, selected from cancer, metastasizing cancers, benign prostate hyperplasia, polycystic ovary syndrome (PCOS), hair loss, hirsutism, acne, hypogonadism, muscle wasting diseases, cachexia, Cushing's syndrome, antipsychotic drug induced weight gain, obesity, posttraumatic stress disorder and alcoholism.



21: 2020/03241. 22: 2020/05/29. 43: 2024/07/11 51: C07C; B01J 71: BASF SE 72: MCGUIRE, ROBERT, PARVULESCU, ANDREI-NICOLAE, MUELLER, ULRICH, DE VOS, DIRK, TOMKINS, PATRICK

#### 33: EP 31: 17209768.5 32: 2017-12-21 54: PROCESS FOR THE ALKYLATION OF ALIPHATIC ORGANIC COMPOUNDS 00: -

Disclosed is a process for the alkylation of an aliphatic organic compound comprising: (a) providing a catalyst comprising one or more zeolitic materials having a BEA framework structure, wherein the BEA framework structure comprises  $YO_2$  and optionally comprises  $X_2O_3$ , wherein Y is a tetravalent element, and X is a trivalent element, (b) contacting the catalyst with one or more aliphatic organic compounds in the presence of one or more alkylating agents in one or more reactors for obtaining one or more alkylated organic compounds, wherein the one or more zeolitic materials are obtainable from a synthetic process which does not employ an organotemplate as structure directing agent.

21: 2020/03243. 22: 2020/05/29. 43: 2024/07/11 51: A61P; A61K 71: TONIX PHARMA HOLDINGS LIMITED 72: HARRIS, HERBERT W, LEDERMAN, SETH 33: US 31: 62/597,284 32: 2017-12-11 54: CYCLOBENZAPRINE TREATMENT FOR AGITATION, PSYCHOSIS AND COGNITIVE DECLINE IN DEMENTIA AND NEURODEGENERATIVE CONDITIONS

# 00: -

Compositions comprising cyclobenzaprine, and methods for the treatment or prevention of agitation, psychosis and/or cognitive decline and associated symptoms thereof in dementia and other neurodegenerative conditions.

#### 21: 2020/03585. 22: 2020/06/15. 43: 2024/07/04 51: C07K: G01N

71: ImmuNext Inc., Amgen Inc. 72: ROTHSTEIN, Jay, CARRIERE, Catherine, SEREGIN, Sergey, GOBEIL, Philipe, LEE, Grace Ki Jeong, SHIGENAKA, Kimberly P., GORDON, Marcia, QUON, Kim, WANG, Yong, LEVY, Raphael D., WANG, Jordon K., CHAMBERS, Ross, TUCKER, David Francis, SCRENCI, Brad A. 33: US 31: 62/614,081 32: 2018-01-05 54: ANTI-MCT1 ANTIBODIES AND USES THEREOF

00: -

This invention generally pertains to antibodies and antigen-binding fragments thereof, e.g., humanized, chimeric, and human antibodies and antigen-binding fragments thereof, and fusion proteins, compositions containing such antibodies and antigen-binding fragments thereof and fusion proteins, wherein such antibodies and antigen-binding fragments thereof and fusion proteins specifically bind to MCT1, e.g., human or non-human MCT1 and antagonize, inhibit or block one or more MCT1-associated functions in vitro and/or in vivo. The invention also relates to therapeutic and diagnostic uses of these anti-MCT1 antibodies, antigen-binding fragments, fusion proteins and compositions containing optionally wherein these anti-MCT1 antibodies, antigen-binding fragments, fusion proteins and compositions containing are used in therapeutic regimens that further include the administration of other therapeutic agents, e.g., mitochondrial inhibitors and/or biguanides or small molecule MCT1 inhibitors.



21: 2020/04450. 22: 2020/07/20. 43: 2024/07/24 51: A61L 71: CLOETE, Mark Anthony

# 72: CLOETE, Mark Anthony 54: AIR FRESHENERS AND SURFACE CLEANERS

#### 00: -

A method of producing an air freshener and/or surface cleaner product is provided. The method includes preparing a mixture of water, plant material and lemon juice, and brining the mixture to the boil. The plant material may be one or a combination of any two or more of rosemary, mint, lavender, verbena, and lemon juice.

#### 21: 2020/04595. 22: 2020/07/24. 43: 2024/06/25 51: A61P; C07K

71: Amgen Inc., Amgen Research (Munich) GmbH 72: RAUM, Tobias, ARVEDSON, Tara, BAILIS, Julie, DAHLHOFF, Christoph, ROSS, Sandra, CHEN, Irwin, BLÜMEL, Claudia, NAHRWOLD, Elisabeth, PENDZIALEK, Jochen, WAHI, Joachim 33: US 31: 62/612,242 32: 2017-12-29 54: BISPECIFIC ANTIBODY CONSTRUCT DIRECTED TO MUC17 AND CD3

00: -

The present invention provides bispecific antibody constructs characterized by comprising a first domain binding to MUC17, a second domain binding to an extracellular epitope of the human and the *Macaca* CD3¢ chain and optionally a third domain, which is a specific Fc modality. Moreover, the invention provides a polynucleotide, encoding the antibody construct, a vector comprising this polynucleotide, host cells, expressing the construct and a pharmaceutical composition comprising the same.

21: 2020/04849. 22: 2020/08/05. 43: 2024/09/10 51: A61K; A61P 71: INTRABIO LTD 72: FACTOR, Mallory, STRUPP, Michael 33: US 31: 62/631,383 32: 2018-02-15 54: THERAPEUTIC AGENTS FOR TREATING RESTLESS LEGS SYNDROME

00: -

The present disclosure provides for treatments of restless legs syndrome (RLS) or one or more symptoms associated with RLS comprising administering leucine, acetyl-leucine or a pharmaceutically acceptable salt thereof.

21: 2020/05969. 22: 2020/09/28. 43: 2024/07/17

51: G06F; G06Q

71: nChain Holdings Limited

72: KRAMER, Dean, SEWELL, Martin, AMMAR, Bassem 33: GB 31: 1806909.6 32: 2018-04-27 33: GB 31: 1806911.2 32: 2018-04-27 33: GB 31: 1806914.6 32: 2018-04-27

33: GB 31: 1806930.2 32: 2018-04-27

33: GB 31: 1806907.0 32: 2018-04-27

# 54: PARTITIONING A BLOCKCHAIN NETWORK 00: -

A computer-implemented method of partitioning a blockchain network into shards is disclosed. The method comprises the steps of identifying a transaction id of a blockchain transaction and allocating the transaction to a shard based on the transaction id.



21: 2020/05985. 22: 2020/09/28. 43: 2024/07/23 51: G01N

71: AUSTRALIAN NATIONAL UNIVERSITY 72: FLEDDERMANN, ROLAND, CHOW, JONG HANN, SHEPPARD, ADRIAN PAUL, SENDEN, TIMOTHY JOHN, LATHAM, SHANE JAMIE, HUANG, KESHU

33: AU 31: 2018900677 32: 2018-03-02

#### 54: A METHOD AND SYSTEM FOR DETERMINING THE LOCATION OF ARTEFACTS AND/OR INCLUSIONS IN A GEMSTONE, MINERAL, OR SAMPLE THEREOF 00: -

A method and system for determining a location of artefacts and/or inclusions in a gemstone, mineral or sample thereof, the method comprising the steps of: surface mapping a gemstone, mineral or sample thereof to determine surface geometry associated with at least a portion of a surface of the gemstone, mineral or sample thereof; sub-surface mapping the gemstone, mineral or sample thereof using an optical beam that is directed at the surface along an optical beam path, wherein the optical beam is generated by an optical source using an optical tomography process; determining a surface normal at the surface at an intersection point between the optical beam path and the determined surface geometry; determining relative positioning between the surface normal and the optical beam path; and determining the location of artefacts and/or inclusions in the gemstone, mineral or sample thereof based on the sub-surface mapping step and the determined relative positioning.



21: 2020/06056. 22: 2020/09/30. 43: 2024/06/27 51: A23K

71: Hill's Pet Nutrition, Inc.

72: JEWELL, Dennis, GROSS, Kathy, OGLEBY, Blair, SCHERL, Dale

# 33: US 31: 62/679,182 32: 2018-06-01 54: COMPOSITIONS AND METHODS FOR INCREASING CONSUMPTION OF WATER IN COMPANION ANIMALS

00: -

Compositions suitable for ingestion by a companion animal and methods for increasing the consumption of water in the companion animal are disclosed. The composition may include water and a viscosity enhancing agent. The viscosity of the composition may be from about 5 cP to about 500 cP.

21: 2020/06504. 22: 2020/10/20. 43: 2024/07/08 51: A61K; C07K; A61P 71: REGENERON PHARMACEUTICALS, INC. 72: PEREZ BAY, Andres, ANDREEV, Julian, POTOCKY, Terra, DUAN, Xunbao 33: US 31: 62/664,924 32: 2018-04-30 33: US 31: 62/728,622 32: 2018-09-07 33: US 31: 62/825,144 32: 2019-03-28 54: ANTIBODIES, AND BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND HER2 AND/OR APLP2, CONJUGATES, AND USES THEREOF

00: -

The protein known as human epidermal growth factor 2 (HER2) is expressed in breast cancer cells and its expression is correlated with aggressive tumor growth. The present invention provides novel full-length human (IgG) antibodies that bind to human HER2 (monospecific antibodies) or to APLP2 (monospecific antibodies). The present invention also provides novel bispecific antibodies (bsAbs) that bind to both HER2 and APLP2 and mediate internalization and degradation of HER2 via the APLP2 complex in the presence of HER2expressing tumors. Described are bispecific antigenbinding molecules and ADCs comprising a first antigen-binding domain that specifically binds human APLP2, and a second antigen-binding domain that specifically binds human HER2. The described bispecific ADCs are capable of inhibiting the growth of certain tumors expressing HER2 and may be useful for the treatment of breast cancer and disorders in which targeting a therapeutic agent to HER2-expressing tumor cell is desirable and/or therapeutically beneficial. For example, the bispecific antibodies of the invention are useful for the treatment of breast cancers, including breast cancers having a IHC2+ classification. The present invention also includes anti-HER2 antibody drug conjugates which inhibit tumor growth in vivo.

21: 2020/06757. 22: 2020/10/29. 43: 2024/07/16 51: G06Q 71: Trans Union LLC 72: KRISHNAMURTHY, Bala

33: US 31: 62/661,519 32: 2018-04-23

#### 54: SYSTEMS AND METHODS FOR DYNAMIC IDENTITY DECISIONING 00: -

Example systems and methods for dynamic identity decisioning include: receiving a request, from a thirdparty server, to confirm an identity of a user attempting a transaction through a third-party website displayed in a first application window on a user device of the user; causing the user device to display a second application window for presenting an identity decisioning application and at least partially overlapping the first window; assessing a risk level associated with the transaction based on identity verification data retrieved from the user device; and if the risk level exceeds a predetermined threshold, selecting at least one identity authentication exam for presentation to the user via the second window, determining an outcome of the at least one identity authentication exam based on a user response thereto, and determining an identity decisioning result based on the outcome; and presenting the result to the user via the second application window.



- 21: 2020/06993. 22: 2020/11/10. 43: 2024/07/31 51: B01J; B02C; E04B; F16B; G10K; G11B
- 71: RAWSON, Colin
- 72: RAWSON, Colin

54: AERO-ACOUSTIC MATERIALS PROCESSING PLANT WITH NOISE ATTENUATION SYSTEM 00: -

A housing for an aero-acoustic processing machine having rotational drive apparatus coupled to rotate an air impeller to draw air and material to be processed through an axial inlet system and expel the air and processed material through a transverse outlet. The housing includes an enclosure

incorporating at least one layer of noise attenuation materials surrounding the aero-acoustic processing machine, the enclosure having a material inlet port, an air inlet port and an exhaust port for outputting processed product with air. Airflow paths that are required for operation of the aero-acoustic processing machine are provided to enable airflow into the housing whilst significantly reducing noise emission.



21: 2020/07195. 22: 2020/11/18. 43: 2024/07/11 51: E21B

71: ELEMENT SIX (UK) LIMITED, BAKER HUGHES HOLDINGS LLC

72: SPITS, RAYMOND ANTHONY, DOLAN, GERARD, LOPEZ LOPEZ, EMILIO, JI, CHANGZHENG, LYONS, NICHOLAS J, IZBINSKI, KONRAD

33: US 31: 62/673,551 32: 2018-05-18 54: POLYCRYSTALLINE DIAMOND CUTTER ELEMENT AND EARTH BORING TOOL 00: -

A cutter element for an earth-boring tool, comprising a polycrystalline diamond (PCD) volume joined at an interface boundary to a cemented carbide substrate. The PCD volume includes a rake face opposite the interface boundary, an edge of the rake face being suitable as a cutting edge of the cutter element. The PCD volume comprises a plurality of strata directly joined to each other at inter-strata boundaries, in which each of a first plurality of the strata comprises PCD material having a first diamond content; each of a second plurality of the strata comprises PCD material having a second diamond content; the second diamond content being greater than the first diamond content; and the strata of the first and second pluralities disposed in an alternating arrangement with respect to each other. The strata are configured and arranged such that a radial line through the edge and a centroid of the interface boundary intersects, within 1,000 microns from the edge, each of the inter-strata boundaries, and the respective tangent plane to each inter-strata boundary at the respective intersection is disposed relative to the radial line at no less than a minimum angle of 30°.



- 21: 2020/07571. 22: 2020/12/04. 43: 2024/07/12
- 51: H01G; H01L; H02J
- 71: Exeger Operations AB

72: LINDSTRÖM, Henrik, FILI, Giovanni

33: EP(SE) 31: 18183590.1 32: 2018-07-16 54: A DYE-SENSITIZED SOLAR CELL UNIT, A PHOTOVOLTAIC CHARGER INCLUDING THE DYE-SENSITIZED SOLAR CELL UNIT AND A METHOD FOR PRODUCING THE SOLAR CELL UNIT

#### 00: -

The present invention relates to a dye-sensitized solar cell unit (1) comprising: - a working electrode comprising a porous light-absorbing layer (10), - a porous first conductive layer (12) including conductive material for extracting photo-generated electrons from the light-absorbing layer (10), - a porous insulating layer (105) made of an insulating material, - a counter electrode comprising a porous catalytic conductive layer (106) formed on the

opposite side of the porous insulating layer (105), and - an ionic based electrolyte for transferring electrons from the counter electrode to the working electrode and arranged in pores of the porous first conductive layer (12), the porous catalytic conductive layer (106), and the porous insulating layer (105), wherein the first conductive layer (12) comprises an insulating oxide layer (109) formed on the surfaces of the conductive material, and the porous catalytic conductive layer (106) comprises conductive material (107') and catalytic particles (107") distributed in the conductive material for improving the transfer of electrons from the conductive material (107") to the electrolyte.



21: 2021/00313. 22: 2021/01/15. 43: 2024/07/19 51: E21C; E21F; F04B; F04F 71: Weir Minerals Netherlands B.V. 72: VAN RIJSWICK, Rudolfus 33: GB 31: 1811632.7 32: 2018-07-16 **54: PUMPING SYSTEM** 00: -

A pumping system for pumping a medium is described. The system comprises: at least one transverse pressure exchange chamber, but preferably multiple pressure exchange chambers. Each pressure exchange chamber has a valve arrangement at each end. The system also includes a pressurised discharge at a delivery end of the system and a filling mechanism operable to fill the pressure exchange chamber with the medium. A positive displacement pump is operable to pump a driving fluid in direct contact with the medium so that the medium is pumped from the pressure exchange chamber to the pressurised discharge. A method of pumping a medium is also described.



- 21: 2021/00397. 22: 2021/01/19. 43: 2024/07/19
- 51: B65B; B65D
- 71: KW Container

72: CAMPBELL, Kenny, SCHOLL, Darren, RUKVINA, Keith

# 33: US 31: 62/701,199 32: 2018-07-20 54: SYSTEM FOR IMPROVED ACCESS TO LIQUID IN A PLASTIC CONTAINER AND LID ASSEMBLY

00: -

The present invention is a system for improved access to liquid In a plastic container and lid assembly, to reduce time in pouring and eliminate dried liquid in the rim of the plastic container caused by pouring liquid over the rim of the plastic container. The invention uses two liquid-tight seals formed between a pour spout wall on the lid and a sealing channel on a plastic cap. Special structures are provided on the cap and the pour spout wall to form the liquid-tight seals when the cap is screwed onto the pour spout wall.



#### 21: 2021/00403. 22: 2021/01/19. 43: 2024/07/19 51: C11D: G01N

71: Stepan Company

72: MASTERS, Ronald A., KNOCK, Mona Marie, WOLFE, Patrick Shane, BOEBEL, Timothy A., DONG, Xue Min, MURPHY, Dennis S. 33: US 31: 62/701,182 32: 2018-07-20 54: REDUCED-RESIDUE HARD SURFACE CLEANER AND METHOD FOR DETERMINING FILM/STREAK

00: -

Dilutable concentrates useful for hard surface cleaners with improved film/streak performance on high-energy surfaces are disclosed. The concentrates comprise a nonionic alkoxylated surfactant and a polyetheramine. A relatively minor proportion of a polyetheramine can resolve film/streak issues that characterize hard surface cleaners formulated with nonionic surfactants. The efficacy of polyetheramines for improving film/streak performance of hard surface cleaners formulated with nonionic alkoxylated surfactants far exceeds the benefits available from known improvements, such as the use of hydrotropes. Other inventive dilutable concentrates and hard surface cleaners comprise an amine-functional hydrophobe and an auxiliary surfactant. Still other dilutable concentrates or hard surface cleaners comprise a nonionic alkoxylated surfactant and lactic acid. An improved method for measuring film/streak properties of hard surface cleaners is also disclosed.

#### 21: 2021/00469. 22: 2021/01/22. 43: 2024/09/10

- 51: A61K; C07K; A61P
- 71: Pfizer Inc.

72: MORAN, Justin, Keith, RUPPEN, Mark, Edward, PRASAD, Avvari, Krishna, DONALD, Robert G. K, ANDERSON, Annaliesa Sybil, CHORRO, Laurent Oliver, GU, Jianxin, KIM, Jin-Hwan, KODALI, Srinivas, LOTVIN, Jason Arnold, PAN, Rosalind, SINGH, Suddham, CHU, Ling, LOMBERK, Scott Ellis, TAKANE, Karen Kiyoko, MERCHANT, Nishith, CHEN, Wei

33: US 31: 62/722,370 32: 2018-08-24 33: US 31: 62/784,940 32: 2018-12-26 33: US 31: 62/881,361 32: 2019-07-31 54: ESCHERICHIA COLI COMPOSITIONS AND METHODS THEREOF 00: -

In one aspect, the invention relates to an immunogenic composition comprising modified Opolysaccharide molecules derived from E. coli lipopolysaccharides and conjugates thereof. Multivalent vaccines may be prepared by combining two or more monovalent immunogenic compositions for different E. coli serotypes. In one embodiment, the modified O-polysaccharide molecules are produced by a recombinant bacterium that includes a wzz gene.



- 21: 2021/00556. 22: 2021/01/26. 43: 2024/07/01
- 51: A61K; A61P; C07D; C12Q; G01N
- 71: Reborna Biosciences, Inc.

#### 72: FUJI, Koji, YAMASAKI, Takeshi, SUZUKI, Shunya, ONO, Koji, TAKAHAGI, Hiroki 33: JP 31: 2018-122551 32: 2018-06-27 54: PROPHYLACTIC OR THERAPEUTIC AGENT FOR SPINAL MUSCULAR ATROPHY 00: -

This prophylactic or therapeutic agent for spinal muscular atrophy includes a compound represented by formula (I) or a salt thereof (in the formula: W1, W2, and W3 are each independently selected from the group consisting of C-R<sup>2</sup>, C-R<sup>3</sup>, C-R<sup>c</sup>, and C-R<sup>d</sup>, and are defined as in any of (i) to (iv); (i) when  $W^3$  is C-R<sup>2</sup>,  $W^1$  is C-R<sup>3</sup>,  $W^2$  is C-R<sup>c</sup> or N, and R<sup>1</sup> is a hydrogen atom; (ii) when  $W^3$  is C-R<sup>3</sup>,  $W^1$  is C-R<sup>2</sup>, W<sup>2</sup> is C-R<sup>c</sup> or N, and R<sup>1</sup> is a hydrogen atom, a C<sub>1-8</sub> alkyl, or a C1-8 alkoxy; (iii) when W1 is C-R2, W2 is C-Rc or N, W<sup>3</sup> is C-R<sup>d</sup>, and R<sup>1</sup> is an aliphatic heterocycle that contains at least one nitrogen atom and is optionally substituted with a non-aromatic substituent; (iv) when W<sup>2</sup> is C-R<sup>2</sup>, W<sup>1</sup> is C-R<sup>c</sup>, W<sup>3</sup> is C-R<sup>d</sup>, and R<sup>1</sup> is an aliphatic heterocycle that contains at least one nitrogen atom and is optionally substituted with a non-aromatic substituent; R<sup>2</sup> is an aromatic ring of at least six members that is optionally substituted with a non-aromatic substituent: R<sup>3</sup> is an aliphatic heterocycle that contains at least one nitrogen atom and is optionally substituted with a nonaromatic substituent; Q1 is selected from C-Ra and N; Q2 is selected from C-Rb and N; and Ra, Rb, Rc, and Rd are each independently selected from the group consisting of a hydrogen atom, halogen, a C1-8 alkyl, a C1-8 alkoxy, and a cyano group).



21: 2021/00581. 22: 2021/01/27. 43: 2024/08/28 51: A23D; A23G; C11C 71: BUNGE LODERS CROKLAAN B.V.

72: BHAGGAN, Krishnadath, WERLEMAN, Jeanine, DEKKER, Willem, FRERICKS, Antina Frederine 33: EP 31: 18275110.7 32: 2018-07-31 54: FAT COMPOSITION

#### 00: -

A fat composition comprises: from 48% to 58°/o by weight of lauric acid (C12:0); from 5% to 15% by weight palmitic acid (C16:0); from 5% to 20% by weight stearic acid (C18:0); and a weight ratio of stearic acid (C18:0) to palmitic acid (C16:0) of from 0.5:1 to 2.5:1; the percentages of acids referring to acids bound as acyl groups in glycerides in the fat composition and being based on the total weight of C8 to C24 fatty acids; and at least 40 solid fat content at 30°C; at most 5 solid fat content at 40°C;

solid fat content measured on unstabilized fat according to ISO 8292-1.



21: 2021/00663. 22: 2021/01/29. 43: 2024/07/02 51: E21D

71: Sandvik Mining and Construction Tools AB, Sandvik Mining and Construction Australia (Production/Supply) Pty Ltd

72: RATAJ, Mieczyslaw, WEAVER, Steven, DARLINGTON, Bradley, YOUNG, Peter, ROACH, Warren

33: EP(SE) 31: 18190386.5 32: 2018-08-23 54: ROCK BOLT WITH INFORMATION DISPLAY REGION

00: -

A rock bolt for installation within a bore formed in rock strata having an elongate shaft with the leading end for installation into the bore and a trailing end projecting from an open end of the bore. A locking nut is threadably attached to the trailing end and is adapted to display product information and the like at a display face. The display face is recessed axially into the nut to provide protection against damage to the display face that may otherwise render the information unreadable.



21: 2021/00666. 22: 2021/01/29. 43: 2024/07/19 51: A61K; A61P

71: Eli Lilly and Company

72: CONLEY, Robert Russell, DAVAR, Gudarz,

JOHNSON, Kirk Willis

33: US 31: 62/726,585 32: 2018-09-04

#### 54: CHRONIC NIGHTLY DOSING OF LASMIDITAN FOR MIGRAINE PREVENTION 00: -

00: -

The present invention relates to chronic nightly use of lasmiditan for the prevention of migraine,

particularly therapy resistant migraine which is defined herein as migraine refractory to two or more prior monotherapy and/or dual therapy treatment or prevention regimens.



21: 2021/00672. 22: 2021/01/29. 43: 2024/07/19 51: A61P; C07D 71: Grünenthal GmbH 72: JAKOB, Florian, ALEN, Jo, LUCAS, Simon, CRAAN, Tobias, KONETZKI, Ingo, KLESS, Achim,

#### SCHUNK, Stefan, RATCLIFFE, Paul, WACHTEN, Sebastian, CRUWYS, Simon 33: EP(DE) 31: 18184607.2 32: 2018-07-20 54: FURTHER SUBSTITUTED TRIAZOLO QUINOXALINE DERIVATIVES 00: -

The present invention relates to compounds according to general formula (I) which act as modulators of the glucocorticoid receptor and can be used in the treatment and/or prophylaxis of disorders which are at least partially mediated by the glucocorticoid receptor.



- 21: 2021/00754. 22: 2021/02/03. 43: 2024/08/14
- 51: A01B; A01C; G01B
- 71: PRECISION PLANTING LLC
- 72: STRNAD, Michael, MINARICH, Nicholas

33: US 31: 62/722,386 32: 2018-08-24 54: AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS, AND APPARATUS 00: -

An agricultural trench depth sensing system and method includes a light source, a receiver and a sensor. The light source directs light downwardly toward a trench previously opened in a soil surface. The receiver is disposed at an angle relative to the light source to receive reflected light. A sensor connected to the receiver senses a pattern of the reflected light. A monitoring system in communication with the sensor, generates a data frame containing triangulated line coordinates and intensity values of the reflected light indicative of a measured depth of the trench. The generated data frame may be associated with GPS coordinates for generating spatial maps and may be used to control operating parameters. The generated data frames may also identify relative soil moisture versus trench depth, or presence of dry topsoil or residue in the trench, or to identify seeds, seed spacing and seed depth.



21: 2021/00766. 22: 2021/02/03. 43: 2024/07/17 51: H02H; H02M 71: Eaton Intelligent Power Limited 72: ASKAN, Kenan 33: DE 31: 10 2018 119 916.3 32: 2018-08-16 54: ELECTRICAL AC/DC CONVERSION

ARRANGEMENT 00: -

In an AC/DC conversion arrangement, it is proposed that an input of an AC circuit breaker (1), which is formed as a hybrid circuit breaker (2) or as a semiconductor circuit breaker, forms an AC input (8) of the arrangement, wherein an output of the AC circuit breaker (1) is connected to an input (9) of a rectifier (21), wherein a smoothing capacitor (4) and a first semiconductor switch (5) connected in series therewith connect a first output (10) of the rectifier (21) to a second output (11) of the rectifier (21), wherein the first output (10) of the rectifier (21) is connected to an input of the first cutoff relay (7), wherein an output of the first cutoff relay (7) forms a first DC output (12) of the arrangement and is provided to connect a first DC consumer (13), and wherein the AC circuit breaker (1), the first semiconductor switch (5) and the first cutoff relay (7) are connected to one another at least indirectly using control technology.



21: 2021/00783. 22: 2021/02/04. 43: 2024/07/19

51: A01N; A01P; C07D

71: Bayer Aktiengesellschaft
72: BERNIER, David, BRUNET, Stéphane, DUFOUR, Jérémy, KNOBLOCH, Thomas, NICOLAS, Lionel, TSUCHIYA, Tomoki
33: EP(DE) 31: 18181930.1 32: 2018-07-05
54: SUBSTITUTED THIOPHENECARBOXAMIDES
AND ANALOGUES AS ANTIBACTERIALS
AGENTS

#### 00: -

The present disclosure relates to substituted thiophene carboxamides and analogues thereof of formula (I) that may be used for protecting plants from bacterial diseases, in particular from bacterial diseases caused by bacteria belonging to the genus *Xanthomonas*.



21: 2021/00784. 22: 2021/02/04. 43: 2024/07/19 51: A01N; A01P; C07D 71: Bayer Aktiengesellschaft 72: BERNIER, David, BRUNET, Stéphane, COQUERON, Pierre-Yves, DUFOUR, Jérémy, KNOBLOCH, Thomas, NICOLAS, Lionel, TSUCHIYA, Tomoki 33: EP(DE) 31: 18181930.1 32: 2018-07-05 54: SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS 00: -

The present disclosure relates to substituted thiophene carboxamides and analogues thereof of formula (II) that may be used for protecting plants from bacterial diseases, in particular from bacterial diseases caused by bacteria belonging to the genus Xanthomonas.



21: 2021/00785. 22: 2021/02/04. 43: 2024/07/19 51: A01N; A01P; C07D 71: Bayer Aktiengesellschaft 72: BERNIER, David, BRUNET, Stéphane, DUFOUR, Jérémy, KNOBLOCH, Thomas, NICOLAS, Lionel, TSUCHIYA, Tomoki 33: EP(DE) 31: 18181930.1 32: 2018-07-05 54: SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS 00: -

The present disclosure relates to thienyloxazolones and analogues thereof of formula (III) that may be used for protecting plants from bacterial diseases, in particular from bacterial diseases caused by bacteria belonging to the genus *Xanthomonas*.



- 21: 2021/00850. 22: 2021/02/08. 43: 2024/07/17
- 51: H04R; H04S
- 71: Koninklijke Philips N.V.

72: SOUVIRAA-LABASTIE, Nathan, KOPPENS, Jeroen Gerardus Henricus

#### 33: EP(NL) 31: 18182373.3 32: 2018-07-09 54: AUDIO APPARATUS AND METHOD OF OPERATION THEREFOR 00: -

An audio apparatus, e.g. for rendering audio for a virtual/ augmented reality application, comprises a receiver (201) for receiving audio data for an audio scene including a first audio component representing a real-world audio source present in an audio environment of a user. A determinator (203) determines a first property of a real-world audio component from the real-world audio source and a target processor (205) determines a target property for a combined audio component being a combination of the real-world audio component received by the user and rendered audio of the first audio component received by the user. An adjuster (207) determines a render property by modifying a property of the first audio component indicated by the audio data for the first audio component in response to the target property and the first property. A renderer (209) renders the first audio component in response to the render property.



- 21: 2021/00853. 22: 2021/02/08. 43: 2024/07/17 51: A61K; A61Q
- 71: Colgate-Palmolive Company

72: WU, Qiang, CHENG, Shujiang, DU-THUMM, Laurence, ARMAS, Adriana, PARKER, Jodie, KOZUBAL, Cheryl

# 54: PERSONAL CARE COMPOSITIONS 00: -

Personal care compositions and methods for increasing the production of natural moisturizing factors (NMFs) and increasing the production of antimicrobial peptides (AMPs) in skin are provided. The personal care compositions may include a carrier, one or more plant oils, and one or more salts of pyrrolidone carboxylate. The one or more plant oils and the one or more salts of pyrrolidone carboxylate are each present in an effective amount to increase NMFs and AMPs in skin when applied to the skin.

21: 2021/00855. 22: 2021/02/08. 43: 2024/07/17 51: A61K; A61Q

71: Colgate-Palmolive Company 72: FAN, Aixing, BOYD, Thomas, LE, Lan 54: PERSONAL CARE COMPOSITIONS 00: -

Described herein are personal care compositions comprising about 0.3 wt% to about 3.0 wt% acrylic acid polymer; about 0.3 wt% to about 3.0 wt% cationic surfactant; and a cosmetically acceptable carrier. Methods of making and using these compositions are also described.

21: 2021/00876. 22: 2021/02/09. 43: 2024/07/17 51: B42D; G06K; G07D; G09F; H04L 71: SICPA HOLDING SA 72: DECOUX, Eric, GILLET, Philippe, THEVOZ, Philippe, WALLACE, Elisabeth 33: EP(CH) 31: 18182697.5 32: 2018-07-10 **54: ARTICLE ANTI-FORGERY PROTECTION** 00: -

The invention relates to securing of an article against forgery and falsifying of its associated data, and particularly of data relating to its belonging to a specific batch of articles, while allowing offline or online checking of the authenticity of a secured article and conformity of its associated data with respect to that of a genuine article.



- 21: 2021/00883. 22: 2021/02/09. 43: 2024/07/17 51: B60B; B60C
- 71: GACW Incorporated
- 72: KEMENY, Zoltan, NEPPL, Tom
- 33: US 31: 62/764,138 32: 2018-07-19

54: WHEEL ASSEMBLY INCLUDING OUTER RIM COUPLED RING DEFINING A MECHANICAL STOP AND RELATED METHODS 00: -

A wheel assembly to be coupled to a hub of a vehicle may include an inner rim to be coupled to the hub of the vehicle and an outer rim surrounding the hub. The wheel assembly may also include gas springs operatively coupled between the inner rim and the outer rim to provide a gas suspension for relative movement between the inner rim and the outer rim. The wheel assembly may also include an outer ring coupled to the outer rim and defining a closeable gap with adjacent interior portions of the inner rim to define a mechanical stop to limit relative movement of the inner rim and outer rim.



21: 2021/00913. 22: 2021/02/10. 43: 2024/07/17 51: B60B; B60C

# 71: GACW Incorporated 72: KEMENY, Zoltan 33: US 31: 62/764,138 32: 2018-07-19 54: WHEEL ASSEMBLY INCLUDING LATERAL STOPS AND RELATED METHODS 00: -

A wheel assembly to be coupled to a hub of a vehicle may include an inner rim to be coupled to the hub of the vehicle and an outer rim surrounding the hub. The wheel assembly may also include gas springs operatively coupled between the inner rim and the outer rim to provide a gas suspension for relative movement between the inner rim and the outer rim. The wheel assembly may also include a disk coupled to the inner rim. The wheel assembly may also include inboard lateral stops carried by an inboard interior surface of the outer rim, and outboard lateral stops carried by an outboard interior surface of the outer rim so that the inboard lateral stops and the outboard lateral stops cooperate to limit relative lateral movement of the disk and the outer rim.



21: 2021/00917. 22: 2021/02/10. 43: 2024/07/17 51: B60B; B60G; F15B 71: GACW Incorporated 72: KEMENY, Zoltan 33: US 31: 62/764,138 32: 2018-07-19 54: WHEEL ASSEMBLY INCLUDING RELATIVE MOVEMENT SENSOR AND RELATED METHODS

00: -A wheel assembly may include an inner rim to be coupled to the hub of the vehicle, and an outer rim surrounding the inner rim. Gas springs may be operatively coupled between the inner rim and the outer rim and permitting relative movement there between. The wheel assembly may also include a sensor configured to sense the relative movement between the inner and outer rims.



- 21: 2021/00948. 22: 2021/02/11. 43: 2024/07/17 51: C21D; C22C; C22F
- 71: Chemetics Inc.
- 72: HARDING, Grant
- 33: US 31: 62/724,572 32: 2018-08-29

#### 54: AUSTENITIC STAINLESS ALLOY WITH SUPERIOR CORROSION RESISTANCE 00: -

Austenitic stainless alloys have been discovered that exhibit unexpectedly superior corrosion resistance, particularly to sulfuric acid solutions, when compared to that exhibited by conventional alloys with closely related compositions. These alloys advantageously are corrosion resistant to a relatively wide range of sulfuric acid concentration and temperature and are thus particularly suitable for use in the industrial production of sulfuric acid.



21: 2021/00950. 22: 2021/02/11. 43: 2024/07/17 51: A61K 71: Zoetis Services LLC

72: KOLHE, Sachin Pundlik, THAKUR, Supriya Gautam

33: US 31: 62/727,018 32: 2018-09-05 54: PALATABLE ANTIPARASITIC FORMULATIONS

## 00: -

The present invention is directed to a palatable, hard chewable composition comprising a therapeutically effective amount of a veterinary acceptable isoxazoline, a stabilized macrocyclic lactone, an acceptable salt form of pyrantel, at least one natural animal based palatant, and at least one veterinary acceptable excipient; and methods for treating or preventing a parasitic infection or infestation in an animal in need thereof with said composition.

21: 2021/00990. 22: 2021/02/12. 43: 2024/07/17 51: A61K; A61P; C07D 71: Theravance Biopharma R&D IP, LLC 72: LONG, Daniel D., SMITH, Cameron,

THOMPSON, Corbin 33: US 31: 62/726.583 32: 2018-09-04

54: 5 TO 7 MEMBERED HETEROCYCLIC AMIDES AS JAK INHIBITORS

00: -

The invention provides compounds of formula (I) where the variables are defined in the specification, or a pharmaceutically-acceptable salt thereof, that are useful as JAK kinase inhibitors. The invention also provides pharmaceutical compositions comprising such compounds and methods of using such compounds to treat respiratory diseases.



21: 2021/01015. 22: 2021/02/15. 43: 2024/07/17 51: H04N 71: QUALCOMM Incorporated 72: VAN DER AUWERA, Geert, RAMASUBRAMONIAN, Adarsh Krishnan, KARCZEWICZ, Marta 33: US 31: 62/698,804 32: 2018-07-16 54: POSITION DEPENDENT INTRA PREDICTION COMBINATION WITH WIDE ANGLE INTRA PREDICTION 00: -

Techniques are described using Position Dependent Intra Prediction Combination (PDPC) with wide angle intra prediction. For example, a size of the current block of video data can be determined. Based on the size, a wide angle intra-prediction mode can be determined for the current block. A prediction block for the current block can be determined using the wide angle intra-prediction mode. A prediction sample from the prediction block can be modified to generate a modified prediction sample using PDPC, which can include determining one or more reference samples that are external to the current block based on the wide angle intra-prediction sample to generate the modified prediction sample based on the determined one or more reference samples.



21: 2021/01048. 22: 2021/02/16. 43: 2024/07/17

- 51: A01N
- 71: Bayer SAS

72: DUBOURNET, Patrice

33: EP(FR) 31: 18183999.4 32: 2018-07-17 54: BIOLOGICAL METHODS FOR CONTROLLING PHYTOPATHOGENIC FUNGI

00: -

The present invention relates to methods for controlling phytopathogenic fungi using biological control agents. More specifically, the invention relates to methods for controlling phytopathogenic fungi having a long incubation period. In particular, the methods according to the invention are particularly suited for controlling the causal agent of powdery mildew on grapes, the fungus *Erysiphe necator*.

21: 2021/01087. 22: 2021/02/17. 43: 2024/07/17 51: B60B; B60C 71: GACW Incorporated 72: KEMENY, Zoltan, NEPPL, Tom 33: US 31: 62/764,138 32: 2018-07-19

#### 54: WHEEL ASSEMBLY INCLUDING INNER AND OUTER RIM COUPLED RINGS DEFINING A MECHANICAL STOP AND RELATED METHODS 00: -

A wheel assembly to be coupled to a hub of a vehicle may include an inner rim to be coupled to the hub of the vehicle and an outer rim surrounding the hub. The wheel assembly may also include gas springs operatively coupled between the inner rim and the outer rim to provide a gas suspension for relative movement between the inner rim and the outer rim. The wheel assembly may also include an outer ring coupled to the outer rim and defining a closeable gap with adjacent portions of the outer ring to define a mechanical stop to limit relative movement of the inner rim.



- 21: 2021/01091. 22: 2021/02/17. 43: 2024/07/17 51: H02B
- 71: ABB Schweiz AG
- 72: PERS, Christer, STADLER, Raeto

## 33: EP(CH) 31: 18192873.0 32: 2018-09-06 54: PRESSURE RELIEF SYSTEM AND A CONTAINER, BUILDING, ENCLOSURE OR CUBICLE INCLUDING A PRESSURE RELIEF SYSTEM

00: -

It is proposed an actively driven pressure relief system (100) for a container, a building, an enclosure, or a cubicle (110) with an electrical installation (105). The actively driven pressure relief system includes a panel and further includes a fault detection device (102) for detecting an arc fault in the electrical installation of the container, the building, the enclosure or the cubicle; and a triggering unit (103) for triggering an opening signal for the panel upon detection of an arc fault by the fault detection device. A panel opening mechanism opens the panel in a destructive manner. Further, a container, building, enclosure or cubicle with an actively operated pressure relief system is described. A method for relieving pressure from a container with a panel and an electrical installation inside the container is also described.



21: 2021/01304. 22: 2021/02/25. 43: 2024/07/17 51: A61K; C07D 71: TERNS, INC. 72: ROMERO, F. ANTHONY, KIRSCHBERG, THORSTEN A, HALCOMB, RANDALL, XU, YINGZI 33: US 31: 62/733,029 32: 2018-09-18 33: US 31: 62/816,637 32: 2019-03-11 33: US 31: 62/889,929 32: 2019-08-21 54: COMPOUNDS FOR TREATING CERTAIN LEUKEMIAS

00: -

Provided herein are compounds, preferably compounds inhibiting tyrosine kinase enzymatic activity of a protein selected from Abelson protein (ABL1), Abelson-related protein (ABL2), or a chimeric protein BCR-ABL1, compositions thereof, and methods of their preparation, and methods of inhibiting tyrosine kinase enzymatic activity of a protein selected from Abelson protein (ABL1), Abelson-related protein (ABL2), or a chimeric protein BCR-ABL1, and methods for treating diseases wherein modulation of BCR-ABL1 activity prevents, inhibits, or ameliorates the pathology and/or symptomology of the disease.

21: 2021/01343. 22: 2021/02/26. 43: 2024/07/17 51: B01D; B03C; C02F; F24D; F28F 71: I.V.A.R. S.P.A. 72: BERTOLOTTI, Umberto, CONTINI, Mario

33: IT 31: 102018000008461 32: 2018-09-10 54: DEVICE AND METHOD FOR FILTERING A FLUID CIRCULATING IN A PLUMBING AND HEATING SYSTEM

00: -

The present invention relates to a device (1) for filtering a fluid circulating in a plumbing and heating system, comprising a body (2) defining therewithin a filtration chamber (3) that is destined to have a fluid to be subjected to filtration pass through it. The body is provided with a first inlet/outlet opening (10), a second inlet/outlet opening (20) and a third inlet/outlet opening (30): each of which sets the filtration chamber (3) in communication with the outside of the device and can be associated with a line of the system to receive therefrom, or send thereto a fluid entering or exiting said body of the device. The device operates a passage of fluid through the filtration chamber (3), in a selective manner according to a plurality of operative configurations, from an opening between said first (10), second (20) and third inlet/outlet opening (30) to a further opening between said first, second and third inlet/outlet opening. The device further comprises filtering members (40) housed inside the filtration chamber and interposed between the inlet/outlet openings to perform filtering of the fluid passing through the filtration chamber; the filtering members comprise a mechanical filter (41) arranged in the filtration chamber and structured so as to divide the filtration chamber into a first sub-chamber (A), a second sub-chamber (B) and a third subchamber (C), in which the first sub-chamber is in fluid communication, without passing through the mechanical filter, with the first inlet/outlet opening, the second sub-chamber is in fluid communication, without passing through the mechanical filter, with the second inlet/outlet opening, and the third subchamber is in fluid communication, without passing through the mechanical filter, with the third inlet/outlet opening.



- 21: 2021/01534. 22: 2021/03/05. 43: 2024/07/18 51: B01F; B29C; C08J
- 71: 10942731 Canada Corporation
- 72: DANNER, Kevin

# 54: METHOD AND SYSTEM FOR FORMING A COMPOSITE MATERIAL

00: -

A method of forming a composite material includes mixing granules of thermoplastic(s) and granules of reinforcing material(s) using a mixer with an interior friction coating. The friction generated by interaction between the granules and friction coating causes granules of at least one of the thermoplastic(s) to be heated to a liquid or semi-liquid state. The liquid / semi-liquid thermoplastic(s) act a binder for the mixed material. A system for forming such a composite material includes such a mixer with an interior friction coating. The system may also include a mould and / or a press for forming material produced by the mixer into a finished shape. The method and system may use post- consumer and post-industrial material as an input allowing such material to be recycled. In some cases, crosscontaminated or mixed post-consumer / postindustrial material may be recycled, potentially reducing environmental impacts.



- 21: 2021/01699. 22: 2021/03/12. 43: 2024/07/18
- 51: G01R; H01F; H02J; H04B; H05K
- 71: Koninklijke Philips N.V.

72: DRAAK, Johannes Wilhelmus, LULOFS, Klaas Jacob

# 33: EP(NL) 31: 18189122.7 32: 2018-08-15 54: DEVICE AND METHOD FOR WIRELESS POWER TRANSFER

# 00: -A device being a power receiver or power transmitter of a wireless power transfer system transfer powers via a power transfer signal: The device comprises power transfer coil (103, 107) for receiving or generating the power transfer signal and a communication antenna (207, 307) for communicating with the power receiver (105) or the power transmitter (101) via a communication signal. The communication antenna (207, 307) overlaps the power transfer coil (103, 107). A magnetic shielding

element (503, 505) is positioned between the power transfer coil (103, 107) and the communication antenna (207, 307). A controller (201, 301) controls the device to perform power transfer during power transfer intervals and communication during communication time intervals, the power transfer intervals and communication time intervals being disjoint. The magnetic shielding element (503, 505) comprises a magnetic shield material arranged to operate in a saturated mode during power transfer intervals and in a non-saturated mode during communication time intervals.



21: 2021/01728. 22: 2021/03/15. 43: 2024/07/18 51: A61K; C07C

- 71: Eli Lilly and Company
- 72: REMICK, David Michael
- 33: US 31: 62/732,799 32: 2018-09-18 54: ERBUMINE SALT OF TREPROSTINIL
- 00: -

A novel salt of treprostinil and methods of its preparation and use are disclosed.

21: 2021/01788. 22: 2021/03/17. 43: 2024/08/05 51: A61K; C07D; A61P 71: STEP PHARMA S.A.S. 72: QUDDUS, Abdul, NOVAK, Andrew, COUSIN, David, BLACKHAM, Emma, JONES, Geraint, WRIGGLESWORTH, Joseph, DUFFY, Lorna, BIRCH, Louise, GEORGE, Pascal, AHMED, Saleh 33: EP 31: 18202136.0 32: 2018-10-23 33: EP 31: PCT/EP2018/086617 32: 2018-12-21 33: EP 31: PCT/EP2019/057320 32: 2019-03-22 54: AMINOPYRIMIDINE/PYRAZINE DERIVATIVES AS CTPS1 INHIBITORS 00: -

Compounds of formula (I), and related aspects.



21: 2021/01886. 22: 2021/03/19. 43: 2024/07/18 51: H04B; H04W 71: QUALCOMM Incorporated 72: CHAKRABORTY, Kaushik, ZHANG, Xiaoxia, SUN, Jing, LUO, Tao 33: US 31: 62/734,735 32: 2018-09-21 54: TECHNIQUES FOR SEARCH SPACE MANAGEMENT 00: -

Methods, systems, and devices for using a common physical downlink control channel (PDCCH) to indicate transmission beams to be used by a base station during a transmission opportunity or a periodicity to monitor search spaces are described. A user equipment (UE) may monitor a search space (in some cases, using a periodicity) for the common PDCCH to determine if transmission beams associated with the UE are to be used during the transmission opportunity. If so, the UE may wake-up during at least a portion of the transmission opportunity to receive additional information. If the common PDCCH indicates that no transmission beams associated with the UE are to be used during the transmission opportunity, the UE may enter or re-enter the sleep state. The UE may switch to a new periodicity for monitoring the search space based on the information transmitted within the common PDCCH.



21: 2021/01940. 22: 2021/03/23. 43: 2024/06/25 51: A61K; A61Q

71: Colgate-Palmolive Company

72: NORTH, Michael, DONG, Rong, PIMENTA, Paloma, PILCH, Shira

# 54: ORAL CARE COMPOSITIONS AND METHODS FOR THE SAME

00: -

Film forming compositions and methods for preventing stains and increasing shine and gloss of teeth. The film forming compositions may include a polymer, such as a hydrophobic polymer, and an orally acceptable solvent. The hydrophobic polymer may include an acrylate component and a hydrophobic group coupled with one another. The hydrophobic group may include an alkyl chain, a polyethylene glycol, a polypropylene, a polyester, a polyorthoester, a phospholipid, a long chain fatty acid, a vinyl chloride, fluorethylene, a siloxane, a urethane, an octylacrylamide, a butylaminoethyl, a styrene, and combinations thereof.

21: 2021/01955. 22: 2021/03/24. 43: 2024/08/28 51: C09K

71: SUNAMP LIMITED

72: BISSELL, Andrew John, OLIVER, David, PULHAM, Colin Richard, GODDARD, Emily Jane, ODLING, Gylen, FISHER, Kate 33: GB 31: 1816380.8 32: 2018-10-08 54: METAL NITRATE BASED COMPOSITIONS FOR USE AS PHASE CHANGE MATERIALS 00: - There is disclosed herein metal nitrate hydrates as phase change materials (PCMs). More particularly, there is disclosed herein metal nitrate hydrate PCMs containing group II metal nitrates as nucleation agents. A further disclosure herein is the combination of multiple chemical species in the PCM formulation which act together to induce nucleation of metal nitrate PCMs. Furthermore, physical mechanisms by which nucleation of metal nitrate hydrate based PCMs and crystallisation rate increased are disclosed.



21: 2021/01990. 22: 2021/03/24. 43: 2024/08/12 51: A61K; A61P 71: PIERRE FABRE MEDICAMENT 72: PEREZ, Michel, MARION, Frédéric, HAEUW, Jean-François, DREYFUS, Cyrille 33: EP 31: 18306270.2 32: 2018-09-27 54: SULFOMALEIMIDE-BASED LINKERS AND CORRESPONDING CONJUGATES 00: -

The present invention relates to a linker of the following formula (I) or a salt thereof: (I). The present invention relates to a linker-drug conjugate of the following formula (II) or a salt thereof: (II). The present invention relates also to a binding unit-drug conjugate, such as an antibody- drug conjugate, of the following formula (III) or (IV) or a salt thereof: (III), (IV), as well as a pharmaceutical composition comprising such a binding unit-drug conjugate and its use in the treatment of cancer.



21: 2021/02029. 22: 2021/03/25. 43: 2024/07/25

## 51: A47J

71: La Marzocco S.r.l.

72: DELLA PIETRA, Stefano, GATTI, Riccardo 33: IT 31: 102018000010150 32: 2018-11-08 54: ESPRESSO COFFEE MACHINE WITH ADJUSTMENT OF THE DISPENSING PRESSURE AND METHOD FOR ADJUSTING THE DISPENSING PRESSURE OF AN ESPRESSO COFFEE MACHINE

#### 00: -

An espresso coffee machine comprising at least one dispensing group (1003) which dispenses shots of espresso coffee, a pressure sensor (24, 25) positioned at the dispensing group (1003), a measuring device and a control unit (30) is described. The pressure sensor (24, 25) provides values of the dispensing pressure (P1) in the dispensing group (1003). The measuring device provides values indicating the amounts of liquid at the inlet or the outlet of the dispensing group (1003). Using the values of the dispensing pressure (P1) received from the pressure sensor (24, 25) and the values indicative of the amount of liquid which are received from the measuring device, the control unit (30) controls the dispensing pressure (P1) of each shot according to a profile of the dispensing pressure (P1) as a function of the amount of liquid.



21: 2021/02063. 22: 2021/03/26. 43: 2024/07/24 51: H04N 71: Huawei Technologies Co., Ltd. 72: CHERNYAK, Roman, IKONIN, Sergey Yurievich, CHEN, Jianle 33: US 31: 62/725,132 32: 2018-08-30 54: AN ENCODING DEVICE, A DECODING DEVICE, AND CORRESPONDING METHODS USING A PALETTE CODING 00: -

The present disclosure relates to decoding and encoding methods as well as to decoding and encoding apparatuses and to a program. In particular, a partitioning type of a subject coding unit, CU, is determined. The partitioning type is either a single partitioning type, in which a subject coding unit is partitioned into a single CU including one luma coding block, CB, and two chroma CBs, or a separate partitioning type, in which a subject coding unit is partitioned into a separate luma CU including a luma CB only and a chroma CU including two chroma CBs only. Based on the partitioning type of the subject CU, the subject CU and an associated palette coding information are decoded from a bitstream (in case of the decoding method /apparatus) or inserted into the bitstream (in case of the encoding method /apparatus).



21: 2021/02106. 22: 2021/03/29. 43: 2024/07/24 51: A01N; A01P 71: Niacet Corporation 72: RIJNEVELDSHOEK, Peter, BRANNEN, Kelly, SOJKA, Stanley 33: US 31: 62/746,197 32: 2018-10-16 54: METHODS FOR FUNGI INHIBITION ON LIVE PLANTS USING CARBOXYLIC ACIDS AND THEIR SALTS

00: -

The present application relates to methods for inhibiting growth of a fungus on a live flowering plant (preferably turfgrass, tulip, or banana) comprising contacting the live flowering plant with an effective amount of a composition comprising a carboxylic acid of formula (I) or salt thereof, wherein R is H, Ph, Ar, or a  $C_1$ - $C_{60}$ alkyl (preferably calcium propionate). The present invention also relates to live plants products contacted with compositions comprising a carboxylic acid of Formula (I) or salt thereof.



21: 2021/02194. 22: 2021/03/31. 43: 2024/07/24
51: G06Q
71: Solera Holdings, Inc.
72: STUCKI, Pascal, NAFISI, Nima, DE BUREN, Pascal, GOZENBACH, Maurice
33: US 31: 62/740,784 32: 2018-10-03
54: APPARATUS AND METHOD FOR COMBINED VISUAL INTELLIGENCE
00: A method includes accessing a plurality of input

images of a vehicle and categorizing each of the plurality of images into one of a plurality of categories. The method also includes determining one or more parts of the vehicle in each categorized image, determining a side of the vehicle in each categorized image, and determining a first list of damaged parts of the vehicle. The method also includes determining, using the categorized images, an identification of the vehicle; determining, using the plurality of input images, a second list of damaged parts of the vehicle; and aggregating, using one or more rules, the first and second lists of damaged parts of the vehicle in order to generate an aggregated list of damaged parts of the vehicle. The method also includes displaying a repair cost estimation for the vehicle.



21: 2021/02611. 22: 2021/04/20. 43: 2024/08/15 51: A23L; C12C 71: BARTH-HAAS UK LIMITED

72: BEDDIE, David

#### 33: GB 31: 1818793.0 32: 2018-11-19 54: NOVEL APPLICATIONS OF HOP ACIDS 00: -

The present invention relates to novel applications of hop acids and formulations using hop acids. More specifically, the present invention relates to formulations comprising hop acids to stabilise or emulsify hop oils or other essential oils in aqueous media. We describe an aqueous emulsifiable composition comprising 0.01-5.00 wt% of at least one essential oil and 0.005-10.0 wt% of at least one hop acid, the balance being water. We also describe a method of stabilising or emulsifying an essential oil or mixture of essential oils. The method comprises mixing the essential oil or mixture of essential oils with at least one hop acid to form an essential oil and hop acid mixture and mixing the essential oil and hop acid mixture with water. We further describe the use, as an emulsifier, of a composition comprising at least one hop acid and beverages obtainable with the composition.

21: 2021/02622. 22: 2021/04/20. 43: 2024/07/01 51: D21H; D21J; C07H; C09D 71: GREENTECH GLOBAL PTE, LTD. 72: SPENDER, JONATHAN, BILODEAU, MICHAEL ALBERT, MIKAIL, SAMUEL 33: US 31: 62/736,919 32: 2018-09-26 54: BIOBASED BARRIER COATINGS COMPRISING POLYOL/SACCHARIDE FATTY ACID ESTER BLENDS 00: -

A method of treating cellulosic materials with a barrier coating comprising at least two polyol and/or saccharide fatty acid ester, having different HBL values, that provides increased water, oil and grease resistance to such materials without sacrificing the biodegradability thereof. The method as disclosed provide for adhering of the barrier coating on articles including articles comprising cellulosic materials and articles made by such method. The materials thus treated display higher hydrophobicity and lipophobicity and may be used in any application where such features are desired.



- 21: 2021/02830. 22: 2021/04/28. 43: 2024/07/24 51: H04L
- 71: Nanjing ZTE Software Co., Ltd.
- 72: YANG, Jianjun
- 33: CN 31: 201811150562.9 32: 2018-09-29 54: IP-BASED METHOD, APPARATUS AND SYSTEM FOR NARROW-BAND SERVICE SOUND PLAYING, AND STORAGE MEDIUM 00: -

Disclosed are an IP-based method, apparatus and system for narrow-band service sound playing, and a storage medium, falling within the technical field of communications. The method comprises: a mobile switching centre (MSC) transmitting, in a transparent manner and by means of a signalling interface module (SIU), a narrow-band call request to a narrow-band service module of a service control point (SCP); the MSC receiving and analyzing an ETC message of sound playing auxiliary routing returned by the SCP; when the ETC message carries information meeting IP-based narrow-band sound playing, the MSC converting the ETC message into a session initiation protocol (SIP) request message; the MSC directly sending the SIP request message to a broadband service module of the SCP; and the broadband service module establishing, according to the SIP request message,

an association relationship with the narrow-band service module of the SCP and controlling a media play service to play a sound by means of a broadband protocol adaptation module of the SCP.



- S101 A MOBILE SWITCHING CENTRE (MSC) TRANSMITS, IN A TRANSPARENT MANNER AND BY MEANS OF A SIGNALLING INTERFACE MODULE SIU, A NARROW-BAND CALL REDUEST TO A NARROW-BAND SERVICE MODULE OF A SCP S102 THE MSC RECEIVES AND ANALYZES AN BETC MESSAGE OF SOUND PLAYING AUXILIARY ROUTING RETURNED BY THE SCP S103 WHEN THE ETC MESSAGE CARRIES INFORMATION MEETING IP-BASED NARROW-BAND SOUND PLAYING, THE MSC CONVERTS THE ETC MESSAGE INTO A SESSION INITATION PROTOCOL (SIP) REQUEST MESSAGE S104 THE MSC DIRECTLY SENDS THE SIP REQUEST MESSAGE TO A BROADBAND SERVICE MODULE OF THE SCP AND THE BROADBAND SERVICE MODULE STABLISHES, ACCORDING TO THE SIP REQUEST MESSAGE, AN ASSOCIATION RELATIONSHIP WITH THE NARROW-BAND SERVICE MODULE OF THE SCP AND THE MOL OVITROLS A MEDIA PLAY A SOUND BY MEANS OF A BROADBAND PROTOCOL ADAPTATION MODULE OF THE SCP

#### 21: 2021/02895. 22: 2021/04/29. 43: 2024/08/19 51: C12Q; G01N

71: THE A2 MILK COMPANY LIMITED

72: COONEY, Terence Patrick, JAINE, Jacob Evan 33: US 31: 62/752,080 32: 2018-10-29

# 54: BETA-CASEIN ANALYSIS OF MILK AND MILK PRODUCTS

00: -

A method for testing for the presence and

quantification of A1-type beta-casein variants or A2type beta-caseins, in milk and milk derived dairy products, using chymotrypsin digestion followed by LC-MS analysis to determining the concentrations of beta-casein digestion peptides and using the concentrations to calculate the amounts of A1-type beta-casein variants or A2-type beta-casein variants present.

21: 2021/02913, 22: 2021/04/30, 43: 2024/08/19 51: A61K; A61P 71: NOVABIOTICS LIMITED 72: O'NEIL, Deborah 33: US 31: 16/163,407 32: 2018-10-17 33: EP 31: 18201033.0 32: 2018-10-17 33: CA 31: 3021344 32: 2018-10-17 54: DOSAGE REGIME 00: -

The present disclosure relates to use of cysteamine, formulations comprising cysteamine and

pharmaceutically acceptable salts of cysteamine in the treatment of cystic fibrosis and conditions associated with cystic fibrosis.



21: 2021/02990. 22: 2021/05/04. 43: 2024/07/25 51: B42D

71: SICPA HOLDING SA

72: CALLEGARI, Andrea, GILLIERON, Mathieu, DE FEO, Oscar

33: EP(CH) 31: 18198938.5 32: 2018-10-05 54: A METHOD OF DESIGNING A LIGHT-**REDIRECTING SURFACE OF A CAUSTIC LAYER,** AN OPTICAL SECURITY ELEMENT COMPRISING THE DESIGNED LIGHT-REDIRECTING SURFACE OF THE CAUSTIC LAYER, A MARKED OBJECT, **USE AND METHOD OF AUTHENTICATING THE** OBJECT

00: -

The invention relates to a method of designing a refractive transparent or partially transparent light-redirecting surface, or a reflective light-redirecting surface, of a caustic layer comprising providing a discrete representation of an input target image, calculating a generalized power diagram for a set of image pixels pi of the target image and computing a piecewise light-redirecting surface of the caustic layer based on a calculated optimal set of weights minimizing a cost function associated with the set of image pixels p<sub>i</sub>. The invention also relates to an optical security element, a marked object, a method of visually authenticating an object and use of the optical security element for authenticating securing or against counterfeiting.



21: 2021/03125. 22: 2021/05/10. 43: 2024/07/18 51: G01N: A61K

71: ORASURE TECHNOLOGIES, INC. 72: DAUGHTRIDGE, GIFFIN, KARDOS, KEITH 33: US 31: 62/572,126 32: 2017-10-13 54: PRODUCTS AND METHODS FOR MONITORING ADHERENCE TO NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITOR THERAPY

00: -

The invention provides novel compounds, reagents, systems, and methods for detecting a metabolite related to a NRTI in a biological sample, and use thereof in monitoring adherence to pre-exposure prophylaxis or anti-retroviral treatment. Such reagents comprise NRTI derivatives, analogs, NRTI derivatives conjugates, along with antibodies directed to same, which are useful for antibodybased methods, such as a lateral flow immunoassay and other point of care devices.



21: 2021/03136. 22: 2021/05/10. 43: 2024/07/24 51: G01F

71: Sensus Spectrum LLC

72: BERTRAM, Carsten, PFEIFFER, Andreas 33: DE 31: 10 2018 126 613.8 32: 2018-10-25

# 54: MEASUREMENT DEVICE FOR DETERMINING THE FLOW OF A FLUID FLOWING THROUGH A PIPE SECTION

#### 00: -

The present invention relates to a measurement device for determining the flow of a fluid flowing through a pipe section, comprising a measurement pipe (12; 112) having a pipe wall (14), at least one ultrasound sensor (18, 20; 116) for transmitting an acoustic signal and/or receiving an acoustic signal, having an ultrasound sensor upper side (21) and a holding element (22), wherein at least one opening of a first type (28; 116), into which the at least one ultrasound sensor (18, 20; 116) is able to be inserted, is provided in the pipe wall (24), and wherein the measurement device (10; 110) has a mounted state in which the holding element (22) grasps the measurement pipe (12; 112) in a circular manner and bears externally on the at least one ultrasound sensor (18, 20; 116) inserted into the opening of a first type (28; 116).



21: 2021/03151. 22: 2021/05/10. 43: 2024/07/24 51: E03D 71: MAHDI GHODRATI

72: GHODRATI MAHDI

33: US 31: 62/766,266 32: 2018-10-11

33: US 31: 62/917,592 32: 2018-12-18

54: AUTOMATIC TOILET CLEANER DEVICE 00: -

The present device relates an automatic toilet cleaning device for placement inside a cistern of a flush toilet. The present device comprises at least a first (14) and second (16) chamber, the second chamber storing a cleaner concentrate (20), the first chamber formed as a tapered vault (24). The second chamber having a first end communicative with the first chamber and a second end enclosed by a first barrier (22) defining a gap (22a); a pipe (46) extending from and sealing the gap in the first barrier forming a water channel (48) and a buoyant actuator (60) coupled by a tether (62) to a stopper (64), the tether disposed in the water channel. In use, as the water levels in the cistern fall and rise, a dosed amount of cleaning solution is released into the cistern.



21: 2021/03224. 22: 2021/05/12. 43: 2024/07/05 51: F24F

71: University of the Witwatersrand, Johannesburg, The Regents of the University of California

72: MANGER, Paul Robert, DAVIMES, Joshua Gabriel, BHAGWANDIN, Adhil, PHILANDER, Illke Bianca, SIEGEL, Jerome Melvin
33: ZA 31: 2018/06789 32: 2018-10-12
54: SYSTEMS, METHODS, AND AN APPARATUS FOR CONTROLLING A SLEEP ENVIRONMENT AND WAKING A SLEEPING PERSON
00: -

This invention relates to a systems, methods and apparatuses for controlling a sleep environment, particularly for controlling an indoor sleep environment, and to a method and system of waking a sleeping person. The invention monitors one or both of wet-bulb globe temperatures (WBGTs) within the sleep environment and outdoors with a view to either altering the WBGT within the sleep environment to mimic a nadir or inflection point typically found outdoors and/or or generate an alarm when a nadir or inflection point of the WBGT outdoors is determined.



- 21: 2021/03263. 22: 2021/05/13. 43: 2024/07/31 51: A61K; C07K; C12N
- 71: CELULARITY INC.
- 72: HARIRI, ROBERT J, KARASIEWICZ, KATHY,
- LI, TIANJIAN
- 33: US 31: 62/774,142 32: 2018-11-30
- 33: US 31: 62/878,736 32: 2019-07-25

54: PLACENTA-DERIVED ALLOGENEIC CAR-T CELLS AND USES THEREOF 00: -

The present invention discloses populations of T cells expressing a chimeric antigen receptor (CAR),

wherein said T cells are placental T cells derived from cord blood, placental perfusate, or a mixture thereof. Such poipulations of cells are shown to be improved in a number of aspects over alternative populations of cells such as those derived from peripheral blood mononuclear cell T cells. It also discloses methods of treating cancer, such as a hematologic cancer, e.g., a B cell cancer, or a symptom thereof in a patient in need thereof. These methods omprise administering to the patient an amount of the population of T cells of any one of the invention effective to alleviate the cancer or symptom thereof in the patient.

21: 2021/03284. 22: 2021/05/14. 43: 2024/07/04 51: A61K; A61P

71: AELIS FARMA, UNIVERSITE DE BORDEAUX, INSERM-INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE 72: PIAZZA, PIER-VINCENZO, FABRE, SANDY, MONLEZUN, STÉPHANIE, METNA, MATHILDE, VALLEE, MONIQUE, REVEST, JEAN-MICHEL, COTA, DANIELA, MARSICANO, GIOVANNI, MARIGHETTO, ALINE, OZAITA, ANDRÉS, MALDONADO, RAFAEL

33: EP 31: 18306716.4 32: 2018-12-18 54: 3BETA-(BENZYLOXY)-17ALPHA-METHYL-PREGN-5-EN-20-ONE FOR USE IN THE TREATMENT OF COGNITIVE DISORDERS 00: -

The present invention generally relates to a specific pregnenolone derivative for its use for the treatment of a cognitive disorders. More particularly, the invention relates to a compound of Formula (I) for its use in the treatment of cognitive disorders. Indeed, the compound of the inventionis in vivo very potent in correcting the cognitive impairments observed in cognitive disorders.



Formula (I)

21: 2021/03398. 22: 2021/05/19. 43: 2024/07/18 51: A61M

71: AVAXZIPEN LIMITED

72: GRANT, DAVID, LAUNOIS, PASCAL, COYNE, JOSHUA, RYAN, OWEN 33: GB 31: 1819059.5 32: 2018-11-22 54: SINGLE-USE CASSETTE ASSEMBLY 00: -

The invention relates to a single-use cassette assembly (1) for use in a reusable solid dose formulation delivery actuator device. Such improvements permit delivery of at least one therapeutic or prophylactic compound, or a solid dose formulation including, for example, a vaccine comprising the same with improved safety and reliability. The invention further concerns an improved needle- free method for delivering at least one therapeutic compound or a formulation comprising the same.



21: 2021/03401. 22: 2021/05/19. 43: 2024/07/18 51: B09B; C08J; C08B; B29B; B29K 71: LENZING AKTIENGESELLSCHAFT 72: HERCHL, RICHARD, KLAUS-NIETROST, CHRISTOPH, WEILACH, CHRISTIAN

#### 33: EP 31: 18215489.8 32: 2018-12-21 54: CELLULOSE RAW MATERIAL AND METHOD FOR RECYCLING A CELLULOSE RAW MATERIAL FROM BLENDED TEXTILE WASTE 00: -

A recycled cellulose raw material and a method for recycling a cellulose raw material from blended textile waste with high reliability and yielding high raw material quality is shown, the method comprising the steps in the given order: providing the blended textile waste containing at least one cellulose component and at least one synthetic polymer component, treating the blended textile waste in a non-oxidizing aqueous treatment medium in order to degrade the at least one synthetic polymer component, whereby the treatment is carried out at a temperature between 100 °C and 200 °C, and obtaining the recycled cellulose raw material from the treated blended textile waste.

21: 2021/03431. 22: 2021/05/20. 43: 2024/07/18 51: C07D; A61K; C07C; C07H; C07K 71: REGENERON PHARMACEUTICALS, INC. 72: GROMADA, JESPER, GUSAROVA, VIKTORIA, HAN, AMY, HAXHINASTO, SOKOL, MURPHY, ANDREW J, OLSON, WILLIAM, SLEEMAN, MATTHEW

33: US 31: 62/769,946 32: 2018-11-20 54: BIS-OCTAHYDROPHENANTHRENE CARBOXAMIDE DERIVATIVES AND PROTEIN CONJUGATES THEREOF FOR USE AS LXR AGONISTS

00: -

Provided herein are compounds or payloads, linkerpayloads, antibody-drug conjugates, and compositions, and methods for the treatment of diseases and disorders associated with the liver X receptor, including bis-octahydrophenanthrene carboxamides and protein (e.g., antibody) drug conjugates thereof.

FIG. 13. Activation of Chulesterol Efflux by an anti-MSR1 ADC Having a P2 Payle

21: 2021/03433. 22: 2021/05/20. 43: 2024/07/18 51: C07D 71: FMC CORPORATION, FMC AGRO SINGAPORE PTE. LTD. 72: BOOTH, STEVEN T 33: US 31: 62/774,436 32: 2018-12-03 54: METHOD FOR PREPARING N-PHENYLPYRAZOLE-1-CARBOXAMIDES 00: -

A method is disclosed for preparing compounds of Formula 1 by combining compounds of Formulae 2 and 3 and a sulfonyl chloride in a continuous process.



21: 2021/03633. 22: 2021/05/27. 43: 2024/07/18 51: B32B; B23K; C22C; C22F 71: NOVELIS KOBLENZ GMBH 72: KIRKHAM, STEVEN, JACOBY, BERND 33: EP 31: 19154779.3 32: 2019-01-31 54: METHOD OF MANUFACTURING A BRAZING SHEET PRODUCT 00: -

The invention relates to a method of manufacturing a brazing sheet product having a core layer of a 3xxx-

series aluminium alloy clad on one or both sides with a 4xxx- series aluminium alloy brazing layer, the method comprising the steps of: (i) casting a rolling ingot of the core layer of a 3xxx-series aluminium alloy having the following composition, in wt.%.: Mn 0.5-1.8, Si ≤1.5, Fe ≤0.7, Cu ≤1.5, Mg ≤1.0, Cr ≤0.25, Zr ≤0.25, Ti ≤0.25, Zn ≤0.5, balance impurities and aluminium; (ii) hot rolling of the rolling ingot to a hot rolled sheet having thickness of 2.5-10 mm; (iii) cold rolling of the hot rolled sheet to a gauge of 0.1-4 mm, optionally with an intermediate annealing step during the cold rolling operation; (iv) soft annealing to recrystallize the microstructure of the aluminium sheet, preferably at a temperature in the range of 250°C-450°C; (v) further cold rolling of the soft annealed sheet with a cold rolling reduction in the range of 5% to <10% to a final cold rolling thickness; and (vi) recovery annealing at 200°C-420°C of the cold rolled aluminium sheet at final cold rolling thickness.



21: 2021/03683. 22: 2021/05/28. 43: 2024/07/11 51: A01N; C07C; A61P 71: ARBUTUS BIOPHARMA CORPORATION 72: COLE, ANDREW G, FAN, YI, KULTGEN, STEVEN, MESAROS, EUGEN 33: US 31: 62/896,237 32: 2019-09-05 33: US 31: 62/778,471 32: 2018-12-12 54: SUBSTITUTED ARYLMETHYLUREAS AND HETEROARYLMETHYLUREAS, ANALOGUES THEREOF, AND METHODS USING SAME 00: -

The present invention includes substituted arylmethyl ureas and heteroarylmethyl-ureas, and compositions comprising the same, that can be used to treat or prevent hepatitis B virus (HBV) infections in a patient.

21: 2021/03795. 22: 2021/06/02. 43: 2024/06/25 51: A61K; A61P; A61Q 71: Colgate-Palmolive Company 72: CHEN, Dandan, TRIVEDI, Harsh Mahendra, YANG, Ying, MASTERS, James 33: US 31: 62/785,161 32: 2018-12-26 54: METHODS OF INDUCING SIGA AND MUCIN 5B IN THE ORAL CAVITY 00: -

Methods of increasing sIgA and mucin 5B levels in an individual's oral cavity are disclosed. The methods comprise applying to the individuals oral cavity in an amount effective to increase sIgA and mucin 5B levels in the individuals oral cavity, an oral care composition comprising: zinc phosphate, stannous fluoride and optionally, an organic acid buffer system.



21: 2021/04243. 22: 2021/06/21. 43: 2024/09/10 51: A01C; G01N 71: PRECISION PLANTING LLC

72: PLATTNER, Chad, STEINER, Philip

33: US 31: 62/822,655 32: 2019-03-22

#### 54: PARTICLE COUNTING APPARATUS, SYSTEMS AND METHODS 00: -

In one embodiment a first light plane is generated across the passageway by a first LED emitter array. A corresponding photodiode receiver array detects particles passing through a first number of light channels comprising the first light plane. In a second embodiment a second light plane is generated across the passageway at 90 degrees from the first

light plane and longitudinally offset from the first light plane by a second LED emitter array. A corresponding photodiode receiver array detects particles passing through a second number of light channels comprising the second light plane. The second light plane is capable of identifying particles in a third dimension that may go undetected when passing through the first light plane. The raw output signals generated by respective photodiodes is normalized, analyzed and characterized to differentiate between particles passing through light planes as individual particles or groups of overlapping particles to be separately counted.



#### 21: 2021/04416. 22: 2021/06/25. 43: 2024/07/04 51: B41J

71: Hewlett-Packard Development Company, L.P. 72: LINN, Scott A., GARDNER, James Michael, CUMBIE, Michael W.

# 54: COMMUNICATING PRINT COMPONENT 00: -

An integrated circuit to drive a number of fluid actuation devices, comprising a circuit configured to have a memory access state which can be set to one of an enabled state and disabled state. The integrated circuit to include a fluid actuation circuit to transmit selection information for a fluid actuation device, the selection information comprising a data state bit. The integrated circuit to include a memory cell array, configured so that each memory cell is accessible by the memory access state being enabled, and the data state bit being set.



#### 21: 2021/04444. 22: 2021/06/28. 43: 2024/07/24 51: G01N; G06N; G06K 71: PRECISION BIOMONITORING INC. 72: THOMAS, MARIO, QI, WENJUAN, CROOKES, STEVEN, NIERGARTH, JESSMYN ADRIANE 54: COMPUTER-IMPLEMENTED METHOD FOR DETERMINING SURVEY SAMPLING PARAMETERS FOR ENVIRONMENTAL NUCLEIC ACID 00: -

A computer-implemented method for determining survey sampling parameters for species marker detection comprises receiving a species selection identifying selected species and receiving environmental specifications for an environment to be tested for the species. A sampling plan is generated using the environmental specifications and the species selection, and detectability prediction(s) are generated using the environmental specifications, the species selection, and the current sampling plan to predict whether species marker(s) for the selected species are detectable according to the current sampling plan. Where at least one species marker is undetectable according to the current sampling plan, the process iterates, with each subsequent iteration incorporating an increase in the total volume to be sampled, until either every species marker is detectable according to the thencurrent sampling plan or an iteration stop limit is reached. The sampling plan(s) and detection prediction(s) are generated using different algorithms.



21: 2021/05517. 22: 2021/08/03. 43: 2024/07/31 51: F41A; F42B

71: KRAUSS-MAFFEI WEGMANN GMBH & CO. KG 72: SPORK, Roland, RACZEK, Matthias, CZOK, Matthias

33: DE 31: 10 2019 106 848.7 32: 2019-03-18 54: PROPELLANT PORTIONING DEVICE COMPRISING AN EXPANDABLE HOLDING ELEMENT

00: -

The invention relates to a propellant portioning device (1) for a propellant (3) which is formed from a plurality of individual propellant modules (2), said device comprising at least one module holder (4.1, 4.2), wherein the module holder (4.1, 4.2) has at least one expandable holding element (5) for holding a propellant module (2). The invention also relates to a propellant handling device (12), to a weapon system, and to a method.



21: 2021/05567. 22: 2021/08/06. 43: 2024/09/10 51: A61K; A61P 71: ZEPHAPHARM LTD 72: TAYLOR, John 33: GB 31: 1901989.2 32: 2019-02-13 54: PHARMACEUTICAL COMBINATIONS COMPRISING MEBENDAZOLE AND A STRONG OR MODERATE CYP1A2 INHIBITOR 00: -

The invention relates to a pharmaceutical composition comprising mebendazole and a strong or moderate cytochrome P450 1A2isoenzyme (CYP1A2) inhibitor, preferably fluvoxamine, thiabendazole or furafylline.



21: 2021/05713. 22: 2021/08/12. 43: 2024/06/27
51: E03C; F16K
71: PHYSICLEAN LTD.
72: Nir NAHUM
33: US 31: 62/790,028 32: 2019-01-09
54: DRAIN PIPE CONNECTOR SYSTEM
00: A drain pipe connector adapted to be disposed between a drain portal of a plumbing fixture and a

between a drain portal of a plumbing fixture and a sewage line, including a first unidirectional valve adapted to be in fluid communication with the drain

portal, and a drain trap connected to the first unidirectional valve and adapted to be connected to the sewage pipe. The valve has a closed operative orientation, in which the valve forms a seal between the drain portal and the drain trap, and an open operative orientation which enables flow of fluid from the drain portal, via the valve, into the drain trap. The valve is normally closed, and when liquid drains into the valve, pressure applied by the liquid transitions the valve from the closed operative orientation to the open operative orientation, thereby enabling the liquid to flow into the drain trap.



21: 2021/05959. 22: 2021/08/19. 43: 2024/08/14 51: G01R; H01L; H02S 71: UNIVERSITY OF CAPE TOWN

72: BARENDSE, Paul Stanley, OLAYIWOLA, Olufemi Isaac

#### 54: CHARACTERIZATION OF ELECTRICITY-PRODUCING CELLS USING BROADBAND IMPEDANCE SPECTROSCOPY 00: -

An apparatus and method for the characterization of electricity-producing cells using broadband impedance spectroscopy are provided. A method includes injecting a broadband signal having a plurality of superimposed waveforms at different frequency set points across a frequency range into an electricity-producing cell. A distribution of the frequency set points is determined using a function which, for a predetermined number of frequency set points, spaces lower value frequency set points closer together and higher value frequency set points further apart so as to tune the frequency set point distribution optimally for the cell. One or both of a voltage and current response are measured, including obtaining the response at each frequency set point simultaneously. An impedance of the electricity-producing cell is calculated using the broadband signal and the response. The impedance is used to determine a condition of the electricityproducing cell, including using an impedance response calculated across the frequency range.



21: 2021/06698. 22: 2021/09/10. 43: 2024/07/31 51: A61M; H01R; A24F 71: ALTRIA CLIENT SERVICES LLC 72: NEWCOMB, RYAN, BACHE, TERRY, HAWES, ERIC, LAU, RAYMOND, POPA, CRISTIAN, YORKSHADES, JAMES 33: US 31: 15/601,365 32: 2017-05-22 54: POD ASSEMBLY, DISPENSING BODY, AND

E-VAPOR APPARATUS INCLUDING THE SAME 00: -

An e-vapor apparatus may include a pod assembly including a pre-vapor formulation compartment, a first electrical connector, a vapor channel traversing the pre-vapor formulation compartment, and a vaporizer, the pre-vapor formulation compartment configured to hold a pre-vapor formulation therein and in fluidic communication with the vaporizer during an operation of the e-vapor apparatus, the first electrical connector including first and second

power electrodes, the first power electrode including a first contact portion on an exterior of the first electrical connector and a first extended portion configured to contact an anode portion of the vaporizer, the second power electrode including a second contact portion on the exterior of the first electrical connector and a second extended portion configured to contact a cathode portion of the vaporizer. The e-vapor apparatus may further include a dispensing body including a second electrical connector configured to connect to the first electrical connector.



21: 2021/06804. 22: 2021/09/14. 43: 2024/07/31 51: H04M

71: SAMSUNG ELECTRONICS CO., LTD. 72: YOON, SHINHO, OH, DONGJUN, LEE, JONGHYUCK, HWANG, SOONHO 33: KR 31: 10-2019-0019551 32: 2019-02-19 33: KR 31: 10-2019-0078718 32: 2019-07-01 54: ELECTRONIC DEVICE INCLUDING ANTENNA DEVICE

00: -

An electronic device is provided. The electronic device includes a first housing structure including a first side surface member, a second housing structure including a second side surface member, a hinge structure configured to rotatably connect the first housing structure and the second housing structure and configured to provide a folding axis on which the first housing structure and the second housing structure rotate, and at least one printed circuit board, wherein the first side surface member or the second side surface member includes a first side surface portion a second side surface portion, a third side surface portion, a fourth side surface portion, a fifth side surface portion, a first slit a second slit a third slit, and a fourth slit, and a fifth slit, and wherein at least part of at least one of the second side surface portion, the third side surface portion, and the fourth side surface portion is formed of a radiation conductor and is electrically connected to the at least one printed circuit board.



21: 2021/08169. 22: 2021/10/22. 43: 2024/08/14 51: A61K; A61P

71: COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH

72: NKUNA, Tshepo Patric, KALOMBO, Michel Lonji 33: ZA 31: 2019/02992 32: 2019-05-14

# 54: POLYMER-LIPID NANOCOMPLEX FOR ENHANCED AQUEOUS SOLUBILISATION AND ABSORPTION OF HYDROPHOBIC ACTIVE COMPOUNDS

00: -

The current invention relates to a polymer-lipid nanocomplex for enhanced aqueous solubilisation and absorption of hydrophobic active compounds, a process for producing such a nanocomplex, and to methods of use of such a nanocomplex.

51: C07K; G01N; A61K

71: BIMYO GMBH

<sup>21: 2021/08536. 22: 2021/11/02. 43: 2024/07/31</sup> 

72: RASSAF, TIENUSH, HENDGEN-COTTA, ULRIKE

#### 33: EP 31: 19173715.4 32: 2019-05-10 54: BNIP3 PEPTIDES FOR TREATMENT OF REPERFUSION INJURY 00: -

The invention provides peptides capable of inhibiting the individual activity and inter-pathway communication of BNIP3, BAX and mitochondria. The peptides can be used in methods of treating a disease or condition in a subject in which it is desirable to prevent cell damage and cell death.

21: 2021/08632. 22: 2021/11/04. 43: 2024/08/14 51: A61K; C07D; A61P 71: NOVARTIS AG 72: NAKAJIMA, Katsumasa, ADAIR, Chris, CHEN, Tracy, DING, Jian, FRYER, Christy, ISOME, Yuko, LARRAUFIE, Marie-Helene, SAVAGE, Nik, TWOMEY, Ariel Sterling 33: US 31: 62/881,619 32: 2019-08-01 33: US 31: 63/009,513 32: 2020-04-14 33: US 31: 63/033.932 32: 2020-06-03

# 54: TRICYCLIC AKR1C3 DEPENDENT KARS INHIBITORS

00: -

The present invention relates to novel tricyclic compounds that are AKR1C3 dependent KARS inhibitor, processes for their preparation, pharmaceutical compositions, and medicaments containing them, and their use in diseases and disorders mediated by an AKR1C3 dependent KARS inhibitor.

21: 2021/08640. 22: 2021/11/04. 43: 2024/07/23 51: A61L; A01N; B32B 71: S. C. JOHNSON & SON, INC. 72: NYAMBO, CALISTOR, CONKLIN, CURTIS, O'GARA, CAITLIN Y, WANG, JIA, ULRICH, TODD 33: US 31: 16/431,598 32: 2019-06-04 54: DISPENSER AND METHOD OF USE THEREOF

00: -

A multi-layer article including a first non-active state and a second active state, the multi-layer article comprising an outer layer having a first side and a second side, an inner layer adjacent to at least a portion of the outer layer and including a volatile material, and an upper layer including a first side and a second side, the first side of the upper layer being adjacent to at least a portion of the inner layer. The multi-layer article is folded upon itself in the first non-active state so that at least a first portion of the second side of the upper layer is disposed on a top of a second portion of the second side of the upper layer, and the first portion and the second portion of the upper layer are heat sealed in the non-active state.



21: 2021/08823. 22: 2021/11/09. 43: 2024/08/14 51: A61K; A61P 71: NYMOX CORPORATION 72: AVERBACK, Paul 33: US 31: 16/410,658 32: 2019-05-13 54: METHOD OF TREATING LOWER URINARY TRACT SYMPTOMS WITH FEXAPOTIDE TRIFLUTATE 00: -

Disclosed are methods of treating symptoms of Lower Urinary Tract Symptoms (LUTS), both obstructive and irritative, that include identifying patients having benign prostatic hyperplasia (BPH), and who also have LUTS, and administering a composition comprising FT to the so-identified patient. The methods are particularly effective in improving urinary peak flow (Qmax), and in improving nocturia.

21: 2021/09128. 22: 2021/11/16. 43: 2024/07/01 51: G06N; G16C 71: Colgate-Palmolive Company 72: PAPPAS, Iraklis, LUCZYNSKI, Bartosz, WU, Donghui, KIM, Dong Hyun 33: US 31: 16/452,214 32: 2019-06-25 54: SYSTEMS AND METHODS FOR PRODUCING A PRODUCT 00: - A system, apparatus, and/or method is disclosed for producing a product. An identity of a sample chemical composition comprising ingredients is received. A value of a property of the sample chemical composition and a feature relating to the value of the property of the sample chemical composition are received. The value of the property of the sample chemical composition, the feature relating to the value of the property of the sample chemical composition, and the identity of the sample chemical composition are input into a machine learning model. The value of the property of the considered chemical composition is determined, via the machine learning model, based on a feature relating to the value of the property of the considered chemical composition and an identity of the considered chemical composition. A product comprised of the considered chemical composition is produced.

21: 2021/09734. 22: 2021/11/29. 43: 2024/06/25 51: G01R; H01M 71: PARRES GARCÍA, Luis Arturo 72: PARRES GARCÍA, Luis Arturo 33: ES 31: P 201900184 32: 2019-12-18 54: METHOD AND SYSTEM FOR CALCULATING THE ENERGY AVAILABLE IN AN ELECTRIC BATTERY AT ANY MOMENT DURING THE LIFE THEREOF, WITHOUT DISCHARGING SAME, AND THE AUTONOMY, CAPACITY AND REMAINING LIFE THEREOF 00: - The invention relates to a method that calculates the available energy, ED, of any battery, W, without discharging same, at any temperature T<sub>n</sub> and at any moment. A family of curves, G<sub>n</sub>, is generated for each battery and temperature by discharging batteries of different capacities at a fixed discharge intensity, ID. Discharging W with equal ID produces a response voltage, which is input into GnJ to obtain ED. The capacity, autonomy and remaining life of the battery are also provided. When the battery is completely charged, ED is the capacity. The remaining life is found by calculating Lw. The autonomy is obtained using ED and the balance of consumption. The above is automated using a system comprising: an MCU; a temperature sensor; a discharger; a voltmeter; an ammeter; and an interface, thereby obtaining ED, capacity, autonomy and remaining life. The use thereof allows battery usage to be optimised and battery autonomy to be identified in, for example, an electric vehicle.



21: 2021/10165. 22: 2021/12/08. 43: 2024/07/01 51: F04D; F16J 71: Weir Minerals Europe Limited 72: LODERER, Pavol, LOCKE, Matthew, CLARENCE, Paul, BERNARDO JUNIOR, Wilson 33: GB 31: 1909807.8 32: 2019-07-09 **54: SEAL** 00: -

A seal arrangement is described for providing a seal between a rotatable shaft and a housing having a wall through which the shaft extends. The seal arrangement includes, in series, a mechanical seal and a gland seal. The mechanical seal is positioned axially inwardly of the gland seal such that the mechanical seal forms a first stage or primary seal and the gland seal forms a secondary seal.



21: 2021/10480. 22: 2021/12/15. 43: 2024/08/20 51: A47B 71: NORCROS GROUP (HOLDINGS) LIMITED

72: TOOLEY, Jonathan Harry 33: GB 31: 1909623.9 32: 2019-07-04 54: MOUNTING APPARATUS 00: -

The invention provides apparatus for mounting a furniture unit to a wall and, in particular, to wall studs. The apparatus includes sliding fixings that allow the spacing between fixing members to be adjusted and, thereby, allow the horizontal position of the furniture unit to adjusted to any desired position relative to the wall studs.



21: 2021/10589. 22: 2021/12/17. 43: 2024/07/01 51: G06F; G06Q; H04L 71: nChain Holdings Limited 72: TARTAN, Chloe, AMMAR, Bassem, DAVIES, Jack, WAHAB, Jad, ZHANG, Wei, VAUGHAN, Owen, WRIGHT, Craig 33: GB 31: 1907345.1 32: 2019-05-24 54: PROTOCOL FOR VALIDATING BLOCKCHAIN TRANSACTIONS 00: -

A method of validating transactions for recordal in a blockchain comprises receiving one or more transactions at a node of a blockchain network. For each received transaction a protocol for validating the transaction is applied. The protocol is configured to allow a termination opcode to be included in an output script of the transaction. The termination opcode is configured to, upon being executed by the node, a) terminate execution of the output script, and b) not to invalidate the transaction based only on the inclusion of the termination opcode in the output script. The protocol is also configured to disallow any instance of the termination opcode from being included in an input script of the transaction, said disallowing comprising the node at least invalidating the transaction if any instance of the termination opcode is included in the input script.



21: 2022/00182. 22: 2022/01/03. 43: 2024/06/26 51: H01H 71: Eaton Intelligent Power Limited

72: KATZENSTEINER, Matthias, HEMMER, Aloysius

33: GB 31: 1910159.1 32: 2019-07-16 54: RELAY

**54: RELA**
A relay (1) comprising an electromagnetic drive unit (2) with a rotatable armature (3) and a yoke (4), the armature (3) comprises a first magnetic contact region (5), the voke (4) comprises a second magnetic contact region (6), the first magnetic contact region (5) being in touch with the second magnetic contact region (6) in a first state of the relay (1), the relay (1) further comprises at least an immovable first electric contact (7) and a moveable contact arm (8) with at least a second electric contact (9), the first electric contact (7) contacts the second electric contact (9) in the first state is suggested, with the armature (3) and the contact arm (8) are arranged together on a shaft (10), and with the shaft (10) is embodied as torsional element (11).



21: 2022/00664, 22: 2022/01/13, 43: 2024/06/26 51: B66F

71: Nordic Minesteel Technologies Inc.

72: DESORMEAU, Wayne, WEAVER, Jeff, MATHIEU, Guy

33: US 31: 16/510,946 32: 2019-07-14

### 54: TELESCOPING JACK FOR LIFTING LARGE **CAPACITY TRUCKS**

00: -

A jack, comprising: a top plate having at least one adapter block mounted thereon and adapted to contact a load; an intermediate plate; a base plate; a first pair of actuators coupled between the base and intermediate plates; and, a second pair of actuators coupled between respective lowered portions of the intermediate plate and the top plate; wherein one of the first pair of actuators is positioned on the base plate on either side of the respective lowered portions; wherein the actuators are operable to move the top and intermediate plates between respective lowered and raised positions to thereby lower and raise the load; and, wherein a top adapter plate of the at least one adapter block is operable to slide between first and second positions across the top plate as the load is raised and lowered to maintain alignment of the top, intermediate, and base plates below the load.



- 21: 2022/00790. 22: 2022/01/17. 43: 2024/06/28
- 51: H04B
- 71: ZTE Corporation
- 72: DONG, Guangming
- 33: CN 31: 201910543199.5 32: 2019-06-21

### 54: METHOD AND DEVICE FOR REALIZING BEAMFORMING

00: -

Disclosed are a method and device for realizing beamforming. The method comprises: acquiring the maximum channel capacity according to the number of subband resource blocks and a rank indication fed back by a terminal; and performing downlink beamforming according to a weight of an antenna channel corresponding to the maximum channel capacity.



Acquire the maximum channel capacity according to the number of subband resource blocks and a rank indication fed Perform downlink beamforming according to a weight of an antenna channel corresponding to the maximum

channel capacity

21: 2022/00948, 22: 2022/01/20, 43: 2024/06/26 51: C07K

71: Eli Lilly and Company

72: KOPACH, Michael E., LU, Yu, TSUKANOV, Sergey Vladimirovich, WHITE, Timothy Donald, JALAN, Ankur, JAMES, Jinju, KOBIERSKI, Michael E.

33: US 31: 62/888,756 32: 2019-08-19

# 54: METHODS OF MAKING INCRETIN ANALOGS 00: -

Intermediate compounds are disclosed for making incretin analogs, or pharmaceutically acceptable salts thereof. In addition, methods are disclosed for making incretin analogs by coupling from two to four of the intermediate compounds herein via hybrid liquid solid phase synthesis or native chemical ligation.

21: 2022/01087. 22: 2022/01/24. 43: 2024/07/09 51: A61K; A61Q

71: Colgate-Palmolive Company

72: POTECHIN, Kathy, LI, Min, FAN, Aixing, BOYD, Thomas, MOY, Melissa

33: US 31: 62/884,472 32: 2019-08-08 54: PERSONAL CARE COMPOSITIONS 00: -

Described herein are personal care compositions comprising - *inter alia* - a gum system comprising a plurality of natural gums; a surfactant system comprising a plurality of alkyl polyglucoside surfactants; and a cosmetically acceptable carrier. Methods of making and using these compositions are also described herein.

21: 2022/01088. 22: 2022/01/24. 43: 2024/07/12 51: A61K; A61Q

71: Colgate-Palmolive Company

72: HERNANDEZ, Edgar H., KENNEDY, Sharon, WU, Qiang, MAKSIMOVIC, Srdjan, MORGAN, Andre, POTECHIN, Kathy, BOYD, Thomas 33: US 31: 62/911,634 32: 2019-10-07 54: PERSONAL CARE COMPOSITIONS AND METHODS

00: -

Personal care compositions containing antiperspirant active ingredients and a cannabinoid source present in an amount to achieve an antiirritant effect on the skin. Methods of preparing the personal care composition and uses of the personal care composition are also disclosed.

21: 2022/01230. 22: 2022/01/26. 43: 2024/06/26 51: A61K; G01N; A61P 71: AXON NEUROSCIENCE SE 72: NOVAK, Michal, KONTSEKOVA, Eva, KOVACECH, Branislav, ŽILKA, Norbert 33: US 31: 62/897,940 32: 2019-09-09 33: US 31: 63/003,585 32: 2020-04-01 54: BIOMARKERS AND TREATMENTS OF ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT 00: -

The disclosure provides immunogenic peptides, compositions, means, and methods for treating Alzheimer's disease or mild cognitive impairment. The disclosure turther provides means and methods for diagnosing patients, selecting patients for treatment, and/or evaluating the efficacy of treatment for Alzheimer's disease or mild cognitive impairment



21: 2022/01930. 22: 2022/02/15. 43: 2024/08/02 51: C12N; A61P

71: CASE WESTERN RESERVE UNIVERSITY 72: SEKALY, Rafick-Pierre, SHARMA, Ashish, ZEIDAN, Joumana

33: US 31: 62/875,217 32: 2019-07-17 54: LONG LIVED T CELLS FOR TREATING HIV INFECTION 00: -

A method of treating an HIV infected subject includes administering the subject an enriched CCR5 and/or CXCR4 gene edited CD4+ T cell population characterized by intermediate cells surface co-expression of CD45A and CD45O (RAintROint).



21: 2022/02001. 22: 2022/02/16. 43: 2024/07/22 51: G06F

71: MASTERCARD INTERNATIONAL INCORPORATED

72: DAVIS, STEVEN C, YADAV, RAKESH 33: US 31: 16/576,915 32: 2019-09-20 54: METHOD AND SYSTEM FOR DISTRIBUTION OF A CONSISTENT LEDGER ACROSS MULTIPLE BLOCKCHAINS 00: -

A method for maintaining a consistent blockchain ledger for storing commitments across multiple separate blockchains includes: storing a blockchain comprised of a plurality of blocks, each block including at least a block header and one or more blockchain data values; receiving a base commitment from a first node, where the first node is included in a first blockchain network; generating a first new block including at least a first block header and the received base commitment; storing the first new block in the blockchain; receiving a state commitment from an additional node included in each of at least two additional blockchain networks; generating an additional new block including at least an additional block header and each received state commitment; and storing the additional new block in the blockchain.



21: 2022/02113. 22: 2022/02/18. 43: 2024/07/03
51: H04W
71: NOKIA TECHNOLOGIES OY
72: LIU, Jennifer, J-N.
33: US 31: 62/879,875 32: 2019-07-29
54: USER DATA TRANSPORT OVER CONTROL
PLANE IN COMMUNICATION SYSTEM USING
DESIGNATED PAYLOAD CONTAINER TYPES
00: -

Improved techniques for user data transport over a control plane in a communication system are provided. For example, a method comprises determining a size of user data to be transmitted over a control plane between user equipment and at least one network entity of a communication system. The method also comprises, in response to determining that the size of the user data to be transmitted is below at least a threshold for small data transport, generating a control plane message comprising the user data to be transmitted in a small data container for transport of user data over the control plane. The method further comprises transmitting the generated control plane message between the user equipment and the at least one network entity of the communication system.



### 21: 2022/02243. 22: 2022/02/22. 43: 2024/08/14 51: A61K; A61P

71: JOINT STOCK COMPANY "BIOCAD" 72: LOMKOVA, Ekaterina Aleksandrovna, SHUSTOVA, Mariia Stanislavovna, TSUKUR, Alina Aleksandrovna, IAKOVLEV, Aleksandr Olegovich, KOZLOVA, Olesya Nikolaevna, SHITIKOVA, Viktoriia Olegovna, MOROZOV, Dmitry Valentinovich

### 33: RU 31: 2019126511 32: 2019-08-22 54: AQUEOUS PHARMACEUTICAL COMPOSITION OF ANTI-PD1 ANTIBODY PROLGOLIMAB AND THE USE THEREOF 00: -

The present invention relates to the aqueous pharmaceutical compositions for the anti-PD-1 antibody prolgolimab and to the use of such pharmaceutical compositions as a medicinal agent for the treatment of PD-1-mediated diseases.

21: 2022/02314. 22: 2022/02/23. 43: 2024/07/09 51: B29C; G05B

# 71: VON KRIES, Karl, DEICK, Nicholas Peter 72: VON KRIES, Karl, DEICK, Nicholas Peter 33: US 31: 16/285,127 32: 2019-02-25 54: SYSTEMS AND METHODS FOR ALTERING ROTATION OF A SOLAR ROTATIONAL MANUFACTURING SYSTEM

00: -

A solar rotational manufacturing system having a monitoring device, a controller, a heliostat having a heliostat controller, a rotational apparatus having a rotational controller, and a mold, wherein the monitoring device is configured to collect actual data regarding a characteristic of the solar rotational heating system and transmit actual data to the controller, the controller is configured to receive a reference parameter, an affecting parameter, and linking instructions, receive actual data from the monitoring device, compare actual data with a reference parameter, determine an affecting parameter to alter, and transmit alteration instructions to the heliostat controller and/or the rotational controller, the heliostat controller is configured to receive the alteration instructions from the controller and execute the alteration instructions, and the rotational controller is configured to receive the alteration instructions from the controller and execute the alteration instructions.



### 21: 2022/02361. 22: 2022/02/24. 43: 2024/07/02 51: A61K; A61P

71: Incyte Corporation

72: HOWELL, Michael D., SMITH, Paul

33: US 31: 62/650,600 32: 2018-03-30

**54: TREATMENT OF HIDRADENITIS** 

SUPPURATIVA USING JAK INHIBITORS

The present application provides methods of treating hidradenitis suppurativa in a patient in need thereof, comprising administering to the patient a therapeutically effective amount of a compound which inhibits JAK1 and/or JAK2, or a pharmaceutically acceptable salt thereof.



21: 2022/02381. 22: 2022/02/24. 43: 2024/07/23 51: A45D

71: JEMELLA LIMITED

72: HARRISON, ALEX, WEATHERLY, ROBERT, GOLD, RICHARD, WRIGHT, LIAM, HONE, TIM, STONE, ADAM, SURRIDGE, ED, SARGEANT, ANTHONY, MOORE, TIMOTHY 33: GB 31: 1910869.5 32: 2019-07-30 54: APPARATUS AND METHOD FOR DRYING AND STYLING HAIR

00: -Appara

Apparatus for drying and styling hair, comprising: first and second mutually-opposing arms adapted for movement between an open configuration for receiving a length of wet hair therebetween and a closed configuration adjacent the hair, such that, in use, when the arms are in the closed configuration they form an inter-arm chamber across which the hair passes, and wherein an airflow conduit is provided within and along at least one of the first and second arms; and means for delivering a flow of air along the conduit in the at least one of the first and second arms, and subsequently into the inter-arm chamber. Also provided is a method of drying (and optionally simultaneously styling) hair using such apparatus.



- 21: 2022/03270. 22: 2022/03/18. 43: 2024/07/01
- 51: G06F; G06Q
- 71: nChain Holdings Limited

72: WRIGHT, Craig Steven, DOIRON, Brock Gilles 33: GB 31: 1912068.2 32: 2019-08-22

### 54: BLOCKCHAIN DATABASE MANAGEMENT SYSTEM

### 00: -

In one aspect, the present disclosure proposes methods, devices and systems and devices for providing a new structured data pertaining to blockchain transactions to implement a new data structure. This new data structure is provided to implement a distributed database. In another aspect, a new distributed data management system (DBMS) is provided, that can manage data associated with the new data structure. However, unlike a conventional DBMS for traditional databases, the present disclosure provides a blockchain DBMS that is configured to managed data associated with one or more blockchain transactions, said data being stored in the new data structure. In another aspect, the present disclosure provides a method for generating or providing one or more blockchain transactions for implementing one or more standard database commands that are received for accessing or manipulating a database, where the data is stored on the new data structure.



21: 2022/03412. 22: 2022/03/23. 43: 2024/06/28 51: A61K; A61P; C07D

71: Pfizer Inc.

72: FENSOME , Andrew, FISHER, Ethan Lawrence, GAJIWALA, Ketan S., HUH, Chan Woo, JALAIE, Mehran, MCALPINE, Indrawan James, PATMAN, Ryan, RUI, Eugene Yuanjin, TRAN, Tuan Phong, WYTHES, Martin James, ZHANG, Lei, ZHOU, Dahui 33: US 31: 62/905,532 32: 2019-09-25

54: POLYHETEROCYCLIC MODULATORS OF STING (STIMULATOR OF INTERFERON GENES) 00: -

Compounds of the general formula (I), or a

pharmaceutically acceptable salt thereof, processes for the preparation of these compounds,

compositions containing these compounds, and the uses of these compounds.



21: 2022/03571. 22: 2022/03/28. 43: 2024/07/17 51: A61J; A61M

71: Vectura Delivery Devices Limited 72: COTTON, Darryl, DEAMER, John, CLARKE, Roger, MELINIOTIS, Andreas, SMITH, Philip, SWANBURY, Philip, THOMAS, Seth 33: EP(GB) 31: 19209856.4 32: 2019-11-18 33: EP (GB) 31: 19209857.2 32: 2019-11-18 33: EP (GB) 31: 19209858.0 32: 2019-11-18

# 54: DRY POWDER INHALER WITH AN ADHERENCE MONITOR

### 00: -

A dry powder inhaler which contains a blister pack, such as a blister strip, is provided. The blister pack has a plurality of blisters, and a blister, or group of blisters, provides a dose of powdered medicament for inhalation. The blister pack has non-numerical indicia which encode an individual, unique number that is associated with each dose. The inhaler is adapted for mounting a monitor. The monitor comprises one or more sensors, such as optical sensors, for reading the non-numerical indicia on the blister pack.



21: 2022/03653. 22: 2022/03/30. 43: 2024/07/24 51: C07K

71: F. Hoffmann-La Roche AG

72: DENGL, Stefan, GEORGES, Guy, GOEPFERT, Ulrich, NIEWOEHNER, Jens, SCHLOTHAUER, Tilman

33: EP(CH) 31: 15173508.1 32: 2015-06-24 54: ANTI-TRANSFERRIN RECEPTOR ANTIBODIES WITH TAILORED AFFINITY 00: -

Herein is reported an anti-transferrin receptor antibody that specifically binds to human transferrin receptor and cynomolgus transferrin receptor, which comprises i) a humanized heavy chain variable domain derived from the heavy chain variable domain of SEQ ID NO: 01, and ii) a humanized light

chain variable domain derived from the light chain variable domain of SEQ ID NO: 26, wherein the antibody has an off-rate for the human transferrin receptor that is equal to or less than (i.e. at most) the off-rate of the anti-transferrin receptor antibody 128.1 for the cynomolgus transferrin receptor, whereby the off-rates are determined by surface plasmon resonance, and whereby the anti-transferrin receptor antibody 128.1 has a heavy chain variable domain of SEQ ID NO: 64 and a light chain variable domain of SEQ ID NO: 65.





21: 2022/03668. 22: 2022/03/30. 43: 2024/08/14 51: A61K; A61P

71: CORCEPT THERAPEUTICS INCORPORATED 72: LEE, Ada, BELANOFF, Joseph, HUNT, Hazel 33: US 31: 62/946,957 32: 2019-12-11 54: METHODS OF TREATING ANTIPSYCHOTIC-

# INDUCED WEIGHT GAIN WITH MIRICORILANT

Methods and compositions for treating a subject at risk of, or suffering from antipsychotic-induced weight gain are disclosed. The methods include administration of a cyclohexyl pyrimidine glucocorticoid receptor modulator (GRM) such as miricorilant (CORT118335) to a patient receiving, or who has received, or who is expected to receive, an antipsychotic drug such as olanzapine, risperidone, clozapine, or other weight-inducing antipsychotic medication. The GRM (e.g., miricorilant) may be orally administered. Administration of such a GRM along with antipsychotic medication may reduce the amount of weight, or reduce the rate of weight gain, or prevent weight gain, otherwise due to antipsychotic medication alone. The methods may reverse weight gain in a patient previously administered antipsychotic medication. Administration of such a GRM with antipsychotic medication may reduce, or reduce gain in, or prevent gain in, or reverse gain in, insulin resistance or blood levels of liver enzymes (AST, ALT), triglycerides, or insulin.



21: 2022/03789. 22: 2022/04/01. 43: 2024/08/14 51: A61K; A61P

71: ALAR PHARMACEUTICALS INC. 72: LIN, Tong-Ho, WEN, Yung-Shun, CHEN, Chia-Hsien, LIU, Ying-Ting, HOU, Rui-Zhi, WU, Zhi-Rong 33: US 31: 62/951,061 32: 2019-12-20 54: LONG-ACTING INJECTABLE FORMULATIONS OF KETAMINE PAMOATE SALTS

### 00: -

Provided are sustained-release pharmaceutical compositions including a ketamine pamoate salt and a pharmaceutically acceptable carrier thereof. The compositions include aqueous suspension, solution and matrix delivery system, which can provide sustained release for anesthesia, analgesia or treatment of central nervous system and antiinflammatory diseases.

- 21: 2022/03817. 22: 2022/04/04. 43: 2024/07/25
- 51: G06Q; G07C; G08B; G08G
- 71: Yazaki Energy System Corporation
- 72: SUZUKI, Hideaki

### 33: JP 31: 2021-064312 32: 2021-04-05 54: FUEL THEFT DETERMINATION APPARATUS, FUEL THEFT DETERMINATION SYSTEM AND COMPUTER-READABLE MEDIUM 00: -

A fuel theft determination device includes: a first acquisition unit configured to acquire a history of remaining amounts of fuel and positions of a plurality of vehicles; a calculation unit configured to calculate a standard value of a variation in the remaining amount of fuel for each of travel routes based on the acquired history. The fuel theft determination device further includes: a second acquisition unit configured to acquire a travel route along which a target vehicle travels and a history of a remaining amount of fuel of the target vehicle; and a theft determination unit configured to determine a fuel theft based on a comparison between the standard value of the variation in the remaining amount corresponding to the travel route acquired by the second acquisition unit and a variation in the remaining amount acquired by the second acquisition unit.



21: 2022/03883. 22: 2022/04/05. 43: 2024/08/23 51: B28B; F16L 71: SAINT-GOBAIN PLACO

### 72: JAFFEL, Hamouda, RANZANI DA COSTA, Andrea, KAMLER, Radomir, SAINGIER, Guillaume 33: EP 31: 19306620.6 32: 2019-12-10 54: HOSE

### 00: -

A hose (200) is described, the hose comprising a first section (210) comprising a cross sectional area A $\chi$  and a second section (220) comprising a cross section area kj. The first section is in fluid communication with the second section and, in use, the first section is located upstream of the second section. Additionally, Axis at least twice the size of A2. Use of the hose and a method of dispensing slurry are also described.



- 21: 2022/04072. 22: 2022/04/11. 43: 2024/07/03 51: A61K
- 71: SIRNAOMICS, INC.
- 72: EVANS, David, M., LU, Patrick, Y.
- 33: US 31: 62/899.535 32: 2019-09-12
- 54: CO-DELIVERY OF TGF-ß SIRNA AND PDL1 SIRNA TO TREAT CANCER 00: -

Compositions containing an anti-TGF- $\beta$  siRNA molecule and an anti-PDL1 siRNA molecule are provided. Methods of using these compositions to treat cancer also are provided. The anti-TGF- $\beta$ siRNA molecule may contain an anti-TGF- $\beta$ I siRNA molecule. One or both molecules may comprise an oligonucleotide with a length of 19 base pairs to 25 base pairs, and one or both may be chemically modified to increase their stability.



Figure 1: PDL1 siRNA screening in SK-Hep1 cells

SOnM. PDL1 expression level was measured at 48h post-transfection. Total RNA was isolated and PDL1 level was assessed with aPCR (SYBR GreenER aPCR). PDL1 expression in transfected cells was compared to that in untreated cells. Beta-octin was used as an internal control for all samples Sequences tested are shown in Table 2.

### 21: 2022/04245. 22: 2022/04/14. 43: 2024/07/25 51: H01H

71: EATON INTELLIGENT POWER LIMITED 72: KNOL, Bert, POSTMUS, Albert, LAMMERS, Adri, HESSELINK, Mathieu 33: GB 31: 2105356.6 32: 2021-04-15 54: OPERATING MECHANISM 00: -

The invention relates to an operating mechanism for opening and closing at least one contact, which operating mechanism comprises: - a base frame; - a bridge body movable relative to the base frame between a closed position and an opened position, wherein the bridge body has a contact surface with a length and a width, which contact surface is configured to extend in length direction over and be in contact with the operating rod of the at least one contact; - a rod mechanism of a first and a second link wherein the first ends of the two links are hinging with each other, wherein the second end of first link is hinging with the base frame and the second end of the second link is hinging with the bridging body; - a cam arranged on a shaft, wherein the shaft is arranged adjacent to the rod mechanism, wherein the shaft extends parallel to the hinging axes of the rod mechanism and wherein the cam is in operating contact with the hinging axis of the first ends of the two links; - a locking lever fixedly arranged with one end to the first link and moves with the first rod between a locked position and an unlocked position; - a control shaft having a D-shaft portion with a flat surface portion and a semi cylindrical surface portion; wherein the D-shaft portion can be rotated between a pass position, in which the path of the second end of the locking lever is positioned outside of the circumference of the cross-section of the Dshaft portion, and a lock position, in which the path of the second end of the locking lever intersects with

the circumference of the cross-section of the D-shaft portion.





The invention relates to a device for operating a switch having an operating lever for moving the switch between the open and closed position and an operating pin arranged to a moving part of the switch, wherein the device comprises: - a primary shaft: - a secondary shaft arranged coaxially with the primary shaft, wherein the secondary shaft has a Dshaft portion arranged for locking and releasing the operating lever of the switch by rotating the secondary shaft; - a coupling arranged between the primary shaft and the secondary shaft, wherein the coupling has rotational play to allow for a relative axial rotation of the primary and secondary shafts between a first rotational position and a second rotational position; - a spring for urging the primary shaft in a first rotational direction; - a control lever extending in a radial direction from the primary shaft for contact with the operating pin of the contact such that the operating pin can move the primary shaft in a second rotational direction; - a latch having a disengage lever extending in a radial direction from the primary shaft and a roller movable into the path of the disengage lever to limit rotation of the primary shaft in the first rotational direction; and - a reset lever extending in a radial direction from the secondary shaft.



21: 2022/04284. 22: 2022/04/14. 43: 2024/08/14 51: A61K; C07D

71: KINNATE BIOPHARMA INC. 72: KALDOR, Stephen W., KANOUNI, Toufike, TYHONAS, John, MURPHY, Eric A. 33: US 31: 62/925,596 32: 2019-10-24 33: US 31: 63/044,898 32: 2020-06-26 **54: INHIBITORS OF RAF KINASES** 00: -

Provided herein are inhibitors of receptor tyrosine kinase effector, RAF, pharmaceutical compositions comprising said compounds, and methods for using said compounds for the treatment of diseases.

21: 2022/04373. 22: 2022/04/19. 43: 2024/08/19 51: A61K; C12N; A61P

71: THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF AGRICULTURE

72: GLADUE, Douglas P., BORCA, Manuel V. 33: US 31: 16/580,058 32: 2019-09-24 54: DEVELOPMENT OF A NOVEL LIVE ATTENUATED AFRICAN SWINE FEVER VACCINE BASED IN THE DELETION OF GENE I177L

00: -

Provided herein are details on the construction of a recombinant African Swine Fever Virus (ASFV) live attenuated vaccine for prevention of ASF caused by various strains of ASFV, such as the highly virulent Georgia 2007 isolate ("ASFV-G"). An exemplary vaccine comprises the ASFV-GΔI177I modified virus, a recombinant ASFV-G modified by deleting a portion of the I177L ORF rendering the I177L gene nonfunctional.



Red arrow = p72mCherry Cassette

21: 2022/04432. 22: 2022/04/20. 43: 2024/07/24 51: B23P

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY, JINGNENG HOLDING GROUP, NANJING LINLI SCIENCE AND TECHNOLOGY CO., LTD., SHAOXING HENGSHENG ENVIRONMENTAL TECHNOLOGY CO., LTD. 72: FAN, Yu, WANG, Lidong, ZHANG, Jun, LIU, Yi, LI, Yongchao, LIU, Yilin, WANG, Wenying, XU, Bo, MENG, Fei, WEI, Jianhui, AN, Ze, ZHANG, Lixiang, CHEN, Zheng, XU, Jie

### 33: CN 31: 201910996709.4 32: 2019-10-19 54: CLADDING WELDING METHOD APPLIED TO HYDRAULIC SUPPORT COLUMN 00: -

The present invention provides a cladding welding method applied to a hydraulic support column, including the following steps: manufacturing: sleeving an alloy tube outside a workpiece to cover the entire workpiece; inlay fusion: extruding the alloy tube such that the alloy tube is closely attached to the workpiece, and carrying out diameter reduction and fusion until a fused junction is formed between the alloy tube and the workpiece, thereby completing the inlay fusion; trimming: removing excess parts at two ends of the alloy tube; and seal welding: carrying out seal welding on the two ends of the alloy tube. According to the cladding welding method provided by the present invention, the alloy tube is used as the wear-resistant and corrosion-resistant material on the surface of the column instead of a plating solution and alloy powder, and plastic deformation is produced by cold extrusion such that the alloy tube is harmoniously integrated with the substrate carbon steel. Since no chemicals are used in the whole production process, no pollutants will be produced. Thus, the cladding welding method is harmless to the human body and friendly to the environment, and has the advantages of low energy

consumption, short production process and high efficiency, which accords with the social development theme of green production.



21: 2022/04557. 22: 2022/04/22. 43: 2024/08/14 51: A61K; C07K

71: PROMETHEUS BIOSCIENCES, INC., CEDARS-SINAI MEDICAL CENTER

72: WATKINS, Jeffry D., DICKERSON, Cindy T., ROJAS, Rafael, REISSMAN, Matthew, MCNEELEY, Patricia, BILSBOROUGH, Janine, HENKLE, Bradley, TARGAN, Stephan R. 33: US 31: 62/925,736 32: 2019-10-24

### 54: HUMANIZED ANTIBODIES TO TNF-LIKE LIGAND 1A (TL1A) AND USES THEREOF 00: -

Described herein are humanized anti-TL1A antibodies and pharmaceutical compositions for the treatment of inflammatory bowel disease (IBD), such as Crohn's Disease (CD) and ulcerative colitis (UC).



21: 2022/04602. 22: 2022/04/25. 43: 2024/07/26 51: A61K; C07D

71: Dizal (Jiangsu) Pharmaceutical Co., Ltd.
72: QI, Changhe, TSUI, Honchung, ZENG, Qingbei, YANG, Zhenfan, ZHANG, Xiaolin
33: PCT/CN 31: 2018/101006 32: 2018-08-17
54: PYRAZINE COMPOUNDS AND USES THEREOF
00: -

The present disclosure novel pyrazine compounds targeting adenosine receptors (especially A1 and A2, particularly A2a). The present disclosure also relates to pharmaceutical compositions comprising one or more of the compounds as an active ingredient, and use of the compounds in the treatment of adenosine receptor (AR) associated diseases, for example cancer such as NSCLC, RCC, prostate cancer, and breast cancer.

21: 2022/04730. 22: 2022/04/28. 43: 2024/07/03 51: C12N C07H A61P 71: SIRNAOMICS, INC. 72: EVANS, David, M., LU, Patrick, Y., LU, Xiaoyong, ROESCH, Eric 33: US 31: 62/909,526 32: 2019-10-02 33: US 31: 62/927,500 32: 2019-10-29 33: US 31: 62/977,630 32: 2020-02-17 54: OLIGONUCLEOTIDES WITH NUCLEOSIDE ANALOGS

00: -

siRNA compositions are provided that contain gemcitabine (GEM) in place of cytosine moieties within the siRNA sequence. Pharmaceuticals compositions containing these siRNA molecules, and methods of using the compositions for treating diseases such as cancer are provided.

21: 2022/04734. 22: 2022/04/28. 43: 2024/07/03 51: A61K C07K 71: SIRNAOMICS, INC. 72: LU, Xiaoyong, LU, Patrick, Y., EVANS, David, M. 33: US 31: 62/910,760 32: 2019-10-04 33: US 31: 62/915,450 32: 2019-10-15 54: TUMOR-TARGETING POLYPEPTIDE NANOPARTICLE DELIVERY SYSTEM FOR NUCLEIC ACID THERAPEUTICS 00: -A novel nucleic acid delivery system is provided

A novel nucleic acid delivery system is provided containing a linear histidine-lysine rich cysteinecontaining peptide bearing a targeting function, and a four branched histidinelysine rich polypeptide. The delivery system includes nucleic acid such as an siRNA. The components form a stable nanoparticle complex through non-covalent interactions between the phosphates of siRNA and histidine/lysine of the polypeptide, with reduced toxicity, and selectively delivers the genetic material to cells. The targeting function enhances the efficiency of the nucleic acid delivery and transfection. Carrier molecules are provided that able to deliver a therapeutic molecule to a specific cell. The carrier molecule is modified with a targeting ligand capable of binding to specific receptors on the cell to be targeted. The therapeutic molecule is an siRNA, miRNA, or other oligonucleotide. The targeting moiety is a small molecule, peptide, or protein that shows an affinity for a receptor present on the cell to be targeted.

21: 2022/04777. 22: 2022/04/29. 43: 2024/07/26 51: A61K; A61P

71: Diamyd Medical AB

72: ESSÉN-MÖLLER, Anders, LUDVIGSSON, Johnny

### 33: SE 31: 1450678-6 32: 2014-06-04 54: NOVEL COMBINATIONS FOR ANTIGEN BASED THERAPY

00: -

The present invention relates to a method for prevention and/or treatment of an autoimmune disease, comprising administering a composition, said composition comprising at least one beta cell autoantigen, to a subject The subject may have a serum vitamin-D level above 50 nanomole/liter or the composition may be administered by intralymphatic injection or injection directly into a lymph node, or over a period of weeks, months, or years. The invention also relates to a composition comprising a plurality of particles, each having immobilised on its surface at least one first and at least one second antigen, wherein the first antigen is a beta cell autoantigen, and the second antigen is either a tolerogen or a beta cell autoantigen, andto composition comprising i) at least one beta cell autoantigen, and at least one of iia) an IL-10 inducing compound selected from the group consisting of vitamin-D, vitamin-D analogs, tyrosine kinase inhibitors, gamma-amino butyric acid, and gamma-amino butyric acid analogs; and iib) a compound that reduces the dendritic cells' ability to activate naïve CD4+ Tcells, such as a cyclooxygenase inhibitor, a CTLA-4 compound or a TNF alpha inhibitor. The invention also relates to pharmaceutical kits and to medical use of beta cell autoantigens.

21: 2022/04821. 22: 2022/04/29. 43: 2024/07/24 51: E04D; F24S; H02S 71: R&MS Solutionpartner Verwaltungs GmbH

### 72: MACK, Reiner, GIESSLER, Bernd 33: EP(LU) 31: 19203436.1 32: 2019-10-15 54: SEALING ASSEMBLY AND ARRAY OF PHOTOVOLTAIC PANELS INCORPORATING SEALING ASSEMBLY 00: -

A seal assembly for arrangement between a first and a second photovoltaic panel is disclosed. The first and the second photovoltaic panel comprising an upper layer and a lower layer, wherein the upper layer is offset with respect to the lower layer at first and second side edges, such that the upper layer of the first photovoltaic panel at its second side edge partially overlaps the lower layer of the second photovoltaic panel at its first side edge. The seal assembly comprises an upper abutment part, a lower abutment part, and an intermediate part connecting the upper abutment part with the lower abutment part and configured for being arranged between the upper layer of the first photovoltaic panel and the lower layer of the second photovoltaic panel. Also, arrays of solar panels and roof structures including such seal assemblies are disclosed.



21: 2022/04845. 22: 2022/05/03. 43: 2024/07/11 51: G10L

71: DOLBY INTERNATIONAL AB

72: KORDON, SVEN, KRUEGER, ALEXANDER

- 33: EP 31: 15306590.9 32: 2015-10-08
- 33: US 31: 62/361,809 32: 2016-07-13

54: LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS 00: -

The present document relates to a method of layered encoding of a compressed sound representation of a sound or sound field. The compressed sound representation comprises a basic compressed sound representation comprising a

plurality of components, basic side information for decoding the basic compressed sound representation to a basic reconstructed sound representation of the sound or sound field, and enhancement side information including parameters for improving the basic reconstructed sound representation. The method comprises sub-dividing the plurality of components into a plurality of groups of components and assigning each of the plurality of groups to a respective one of a plurality of hierarchical layers, the number of groups corresponding to the number of layers, and the plurality of layers including a baselayer and one or more hierarchical enhancement layers, adding the basic side information to the base layer, and determining a plurality of portions of enhancement side information from the enhancement side information and assigning each of the plurality of portions of enhancement side information to a respective one of the plurality of layers, wherein each portion of enhancement side information includes parameters for improving a reconstructed sound representation obtainable from data included in the respective layer and any layers lower than the respective layer. The document further relates to a method of decoding a compressed sound representation of a sound or sound field, wherein the compressed sound representation is encoded in a plurality of hierarchical layers that include a base layer and one or more hierarchical enhancement layers, as well as to an encoder and a decoder for layered coding of a compressed sound representation.



21: 2022/04866. 22: 2022/05/03. 43: 2024/07/05 51: E21B

71: PECK TECH CONSULTING LTD. 72: ZAGRE, GILLES ERIC PALOBDE, SHLENCHAK, VIKTOR, PECK, JONATHAN PHILLIP

33: US 31: 62/936,205 32: 2019-11-15 33: US 31: 17/097,201 32: 2020-11-13 54: SYSTEMS, APPARATUSES, AND METHODS FOR DETERMINING ROCK-COAL TRANSITION WITH A DRILLING MACHINE 00: -

A system, apparatus, and method for controlling operation of a drilling machine includes determining a rock-coal transition and enabling both the real-time control of the blasthole drilling operation of the drilling machine responsive to the determination of the rock-coal transition or using the rock-coal transition information for mine planning in a postprocessing application. Such controlling can include stopping the drilling operation of the drilling machine prior to or upon reaching the coal. Mine planning allows for more efficient removal of the exploitable coal. The determining and controlling can be performed in real time based on specialized transformation of Monitor-While Drilling (MWD) data from one or more sensors of the drilling machine while the drilling machine is drilling. The mine planning application is based on processing the Monitor-While Drilling (MWD) data from one or more sensors of the drilling machine after the drilling machine has completed the drilling of a blasthole or blastholes.



21: 2022/04981. 22: 2022/05/06. 43: 2024/07/11 51: C12N; A61K 71: TONIX PHARMA LIMITED, TONIX PHARMACEUTICALS HOLDING CORP. 72: EVANS, DAVID, NOYCE, RYAN, LEDERMAN, SETH

33: US 31: 62/416,577 32: 2016-11-02 33: US 31: 62/434,794 32: 2016-12-15 54: SYNTHETIC CHIMERIC POXVIRUSES 00: -

The invention relates, in general, to synthetic chimeric poxviruses, compositions comprising such viruses, and the development and use of systems and methods for producing such synthetic chimeric poxviruses. The synthetic chimeric poxviruses are well suited for live virus vaccines and pharmaceutical formulations.

scHPXV genome used for DNA synthesis



21: 2022/05083. 22: 2022/05/09. 43: 2024/08/19 51: C08J; C08L

71: IFP ENERGIES NOUVELLES 72: THINON, Olivier, LEINEKUGEL LE COCQ, Damien, HAROUN, Yacine, MEKKI-BERRADA, Adrien, CHARRA, Cyprien, AZIM GONDIM PAIVA, Mayara

### 33: FR 31: FR1914994 32: 2019-12-19 54: IMPROVED METHOD FOR DEPOLYMERIZING A POLYESTER COMPRISING POLYETHYLENE TEREPHTHALATE

00: -

The invention concerns a method for depolymerizing a polyester feedstock comprising PET, said method comprising, before the step of depolymerization by glycolysis and before the step of purification of the depolymerization effluent, an improved step of conditioning of the feedstock, in which the polyester feedstock is conditioned in temperature and pressure and then mixed with a diol effluent in a static or dynamic mixer in order in particular to reduce substantially the viscosity of the feedstock.

21: 2022/05094. 22: 2022/05/09. 43: 2024/07/11 51: E21B; F42D 71: PECK TECH CONSULTING LTD. 72: PECK, JONATHAN PHILLIP, LEAR, CHRISTOPHER, SHLENCHAK, VIKTOR, PEARSON, RICHARD

### 33: US 31: 16/951,116 32: 2020-11-18 33: US 31: 62/937,661 32: 2019-11-19 **54: SYSTEMS, APPARATUSES, AND METHODS**

FOR DETERMINING ROCK MASS PROPERTIES BASED ON BLASTHOLE DRILL PERFORMANCE DATA INCLUDING COMPENSATED BLASTABILITY INDEX (CBI) 00: -

A system, apparatus, and method for determining intact versus fractured rock zones based on performance monitoring of an electric drilling 5 machine when drilling a blasthole. The determination can be based on a calculation of compensated blastability index ("CBI") values using transformed performance monitoring data collected in real-time as the drilling machine drills the blasthole.



21: 2022/05106. 22: 2022/05/09. 43: 2024/07/23

- 51: B01D
- 71: FLSmidth A/S

72: KRASZEWSKI, Mike

33: US 31: 62/934,193 32: 2019-11-12

### 54: FILTER PRESS AND WASHER FOR FILTER PLATE APPARATUS

00: -

A horizontal filter press (100) is provided with a track (105) and a plurality of filter plate assemblies (101) supported by side bars (104). A washer carriage (2), which is movably supported on the track (105), includes a washer unit (1) for washing the filter plate assemblies (101). The washer unit (1) may include a wash water manifold (11) having a first outlet (13) for feeding wash water to a first spindle (19) and a second outlet (14) for feeding wash water to a

second spindle (19). Each of the spindles (19) may include a reel (20) for spooling a flexible hose (23) thereon, and they are each configured to be rotated with respect to the washer carriage (2). A first end of a spray bar (25) fluidly communicates with a first flexible hose (23) supported by a reel (20) on the first spindle (19).



21: 2022/05157. 22: 2022/05/10. 43: 2024/07/11 51: C07D 71: FMC CORPORATION, FMC AGRO SINGAPORE PTE. LTD.

72: JI, SHUREN, LUAN, JIE, MAO, JIANHUA, WANG, HAO, XU, YIHUI

### 33: US 31: 62/933,553 32: 2019-11-11 54: METHODS FOR THE PREPARATION OF ETHYL 3-BROMO-1-(3-CHLOROPYRIDIN-2-YL)-1H-PYRAZOLE-5-CARBOXYLATE 00: -

Described herein are novel methods of synthesizing Ethyl 3-bromo- I-(3-chloropyridin-2- yl)-IH-pyrazole-5carboxylate.

21: 2022/05159. 22: 2022/05/10. 43: 2024/07/26 51: E21B; G01V 71: REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD 72: WILSON, Cory Bryce, PRICE, Timothy Merle, KOPLAN, Christopher Thomas 33: US 31: 62/942,360 32: 2019-12-02 54: MAGNETIC SUSCEPTIBILITY AND CONDUCTIVITY MODULE 00: -

A magnetic susceptibility and conductivity tool (10) which incorporates a transmitter coil (4) energized with a time-varying current from a transmitter coil

drive (13). The transmitter coil drive receives a clock signal and induces a data signal (99) including a primary mutual coupling signal and a formation coupling signal. A receiver coil (1) outputs a receiver coil voltage induced by the data signal. A transmitter coil current sense circuit (15) receives current from the transmitter coil and outputs a digital coil current voltage signal. A synthetic null circuit (14) receives the digital current voltage signal and multiplies the digital current voltage signal with a predetermined constant (28) for amplitude of a base primary mutual coupling signal and shifts phase with a predetermined phase offset (27) to output a synthetic null signal (104). A subtraction circuit (16, 33) receives and subtracts the synthetic null signal from the receiver coil voltage to output a process signal which is received in a signal precondition circuit (7, 31) that outputs a conditioned signal. An analog to digital converter (8, 34) receives the conditioned signal and outputs a digitized voltage signal (106, 107). A synchronous demodulator circuit (9) receives the digitized voltage signal and outputs a conductivity signal (108) and a magnetic susceptibility signal (110).



- 21: 2022/05170. 22: 2022/05/10. 43: 2024/07/26 51: C07D 71: Eli Lilly and Company 72: COLE, Kevin Paul
- 33: US 31: 62/946,146 32: 2019-12-10

54: PROCESS AND INTERMEDIATE FOR THE PREPARATION OF OXETAN-2-YLMETHANAMINE

### 00: -

A process and intermediate for the preparation of a compound of formula (I), or salt thereof.



21: 2022/05265. 22: 2022/05/12. 43: 2024/07/26 51: A61K; A61M

71: TARIS Biomedical LLC

72: LEE, Heejin, DANIEL, Karen, SANSONE, Matthew

33: US 31: 61/867,245 32: 2013-08-19 54: MULTI-UNIT DRUG DELIVERY DEVICES AND METHODS

### 00: -

Abstract of the Disclosure Implantable drug delivery devices include a housing defining a reservoir, a first unit within the reservoir, and a second unit within the reservoir. The first unit contains a drug and the second unit contains a functional agent that facilitates release of the drug. Intravesical drug delivery devices include a housing portion containing a drug formulation and a housing portion containing an excipient, and are configured to release the drug according to a first release profile and the excipient according to a second release profile. Methods include inserting any of these devices into a patient and releasing drug from the device.



21: 2022/05289. 22: 2022/05/12. 43: 2024/07/11 51: A61K 71: UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION 72: SOTO GUTIERREZ, ALEJANDRO, BELL, AARON, FRAUNHOFFER NAVARRO, NICOLAS, GUZMAN LEPE, JORGE, HAINER, SARAH, MICHALOPOULOS, GEORGE K, OSTROWSKA, ALINA, FOX, IRA, TAFALENG, EDGAR NAOE, TAKEISHI, KAZUKI 33: US 31: 62/915,765 32: 2019-10-16 **54: COMPOSITIONS AND METHODS FOR** 

#### 54: COMPOSITIONS AND METHODS FOI TREATING LIVER DISEASE 00: -

Disclosed are compositions and methods for treating a liver disease in a subject by increasing transport or retention of HNF4α, a transcriptional factor, into a nucleus of a hepatocyte in the subject. In some embodiments, the method comprises upregulating expression or function of one or more transcription factors selected from the group consisting of PROX1, NR5A2, NR0B2, MTF1, SREBP1, EP300, and POM121C, and functional fragments thereof, and/or downregulating expression or function of one or more transcription factors DNAJB 1/F1SP40, ATF6, ATF4, and PERK, and functional fragments thereof.



21: 2022/05295. 22: 2022/05/12. 43: 2024/07/26
51: B29C; B33Y; C08G; C08L
71: Plantics Holding B.V.
72: HOLTHUIS, Beer, BAKKER, Wridzer Jan Willem, THYS, Ferry Ludovicus
33: EP(NL) 31: 19211192.0 32: 2019-11-25
54: COMPOSITION SUITABLE FOR 3D PRINTING 00: The invention pertains to a composition which is suitable for 3D printing, which composition

comprises - a polyester derived from an aliphatic

polyol with 2-15 carbon atoms and an aliphatic polycarboxylic acid with 3 to 15 carbon atoms, the polyester having an extent of polymerization, which is the ratio of the fraction of functional groups that have reacted to the maximum of those functional groups that can react, of at most 0.6, - solid filler, diluent. The invention further pertains to a method for preparing a shaped object comprising the steps of - providing a composition as described herein, extruding the composition through a printer nozzle to form a layer of the composition in a desired shape, building up the layers onto each other to form a shaped object, - subjecting the shaped object to a curing step to form a cured shaped object, wherein the curing step takes place during and/or after the extrusion step. The shaped object is also claimed.



21: 2022/05453. 22: 2022/05/17. 43: 2024/07/11 51: G02B

71: FURUKAWA ELECTRIC LATAM S.A.

72: VIEIRA, THIAGO DECONTO

33: BR 31: BR 10 2019 023385 0 32: 2019-11-07 54: OPTICAL BRANCHING AND TERMINATION BOX

00: -

The box has a base (10) and an articulated lid (20), at least one peripheral wall (12) of the base (10) having at least two lateral openings (13) enabling the passage of at least one optical cable (CO), each opening being closed by a sealing stopper (30) and receiving thereon a sealing gasket (24). A splitter seating tray (60) has a front face (61) with splitter and/or fibre seating means (MSF) and a rear face (62). Each of the splitter and/or fibre seating means (MSF) can be connected to a fibre extension (EF1) of an optical cable (CO) received in the base (10) and the fibre extensions (EF2) connectorized to output adapters (AS) mounted on at least one

peripheral wall (22) of the lid (20) and externally connected to connectors (C) of terminal cables (CT).



21: 2022/05535. 22: 2022/05/19. 43: 2024/07/11 51: A01H 71: CIBUS US LLC, CIBUS EUROPE B.V.

72: GOCAL, GREGORY F W, BEETHAM, PETER R, DE SCHOPKE, AURA, DUMM, SARAH, PEARCE, JAMES, SCHOPKE, CHRISTIAN, WALKER, KEITH A

### 33: US 31: 61/370, 436 32: 2010-08-03 54: MUTATED PROTOPORPHYRINOGEN IX **OXIDASE (PPX) GENES**

00: -

Provided are compositions and methods relating to gene and/or protein mutations in transgenic or nontransgenic plants. In certain embodiments, the disclosure relates to mutations in the protoporphyrinogen IX (PPX) gene. In some embodiments the disclosure relates to plants that are herbicide resistant.

Figure 1: Amino seid sequence of Arabidopsis thaliana chloroplast protoporphyrinogen oxidase (P POX - At4g01690) (Accession # AX084732) (SEQ ID NO: 1)

- 1 MELSLLRPTTOSLLPSFSKPNLRLNVYKPLRLRCSVAGGPTVGSSKIEGG
- 51 GGTTITTDCVIVGGISGLCIAQALATHHDAAINLIVTFAKDRVQCNI 101 TREENGFLMEEGPNSFQPSDPMLINVVDSGLKDDLVLGDPTAPRFVLMNG 151 KLRPVPSKLTDLPFFDLMSIGGKIRAGPGALGIRFSPPGREESVEEFVRH

- NLGDEVFERLIEFFCSGVVAGOPSKLSNKAAFGKVÆRLSCNGSSIIGGTF
   KAIQERKNAPKAERDPRLPKPQGQTVGSFREGLEMLPEAISARLGSKVKL
   SNRLSGITKLESGQVNLTYETFDGLVSVQSKSVVMTVPSHVASGLLRPLS
- 31 BRANALSKLYYPPVANSISYTYKAINTELIGELEGENEGOLHPPTOU 401 ETLOTIYSSELPENEAPPGRILLAYIGGSTNTGILSKSEGELVERVDED 451 LKRMLKENSTDELKGVRWPOAIPGELOFAKSSLTSSGYEG 501 LFLGGNYVAGVALGRCVEGAYETAIEVNNPMSRYAYK

21: 2022/05802. 22: 2022/05/25. 43: 2024/07/05 51: H02K

71: E-CIRCUIT MOTORS, INC. 72: MILHEIM, GEORGE HARDER, SHAW, STEVEN ROBERT

33: US 31: 17/086,549 32: 2020-11-02 33: US 31: 62/934,059 32: 2019-11-12 54: IMPROVED ROTOR ASSEMBLIES FOR AXIAL FLUX MACHINES

00: -

A rotor assembly for an axial flux machine may include at least one magnet and first and second support structures. The first support structure may be configured to have the at least one magnet attached thereto and to provide a flux return path for the at least one magnet. The second support structure may be configured to be attached to the first support structure so as to allow torque to be transferred between the at least one magnet and the second support structure via the first support structure, and may be further configured (A) to be attached to a rotatable shaft of the axial flux machine, or (B) to function as an output or input flange of the axial flux machine.



21: 2022/05833. 22: 2022/05/26. 43: 2024/07/11 51: C12N

71: NEW YORK STEM CELL FOUNDATION, INC. 72: NOGGLE, SCOTT, EGGAN, KEVIN, CHANG, STEPHEN, SOLOMON, SUSAN L 33: US 31: 61/565,818 32: 2011-12-01 33: US 31: 61/580,007 32: 2011-12-23 33: US 31: 61/700,792 32: 2012-09-13 54: AUTOMATED SYSTEM FOR PRODUCING INDUCED PLURIPOTENT STEM CELLS OR DIFFERENTIATED CELLS

00: -

The invention provides an automated system for producing induced pluripotent stem cells (iPSCs) from adult somatic cells. Further, the system is used for producing differentiated adult cells from stem cells. The invention system is useful for isolating somatic cells from tissue samples, producing iPSC lines from adult differentiated cells by reprogramming such cells, identifying the pluripotent reprogrammed adult cells among other cells, and expanding and screening the identified reprogrammed cells.



21: 2022/05838. 22: 2022/05/26. 43: 2024/07/12 51: C03C

71: Vitro Flat Glass LLC

72: FISHER, Patrick, MEDWICK, Paul A., WAGNER, Andrew, POLCYN, Adam D.

33: US 31: 62/626,332 32: 2018-02-05 54: SOLAR CONTROL COATINGS WITH QUADRUPLE METALLIC LAYERS 00: -

A coated article includes a substrate, a first dielectric layer, a first metallic layer, a second dielectric layer, a second metallic layer, a third dielectric layer, a third metallic layer, a fourth dielectric layer, a fourth metallic layer and a fifth dielectric layer. At least one of the metallic layers is a discontinuous metallic layer having discontinuous metallic regions. An optional primer is positioned over any one of the metallic layers. Optionally a protective layer is provided as the outer most layer over the fifth dielectric layer.



21: 2022/05861. 22: 2022/05/26. 43: 2024/07/26 51: F04D; F16D

71: ITT Manufacturing Enterprises LLC 72: YARNOT, Brian Alan, ARLISS, Cody Mac, LANDSCHOOT Jr, Paul Matthew, NOBLES, Douglas J., SMITH, Kenneth Michael, BEHNKE, Paul Walter

### 54: IMPELLER LOCKING COLLAR 00: -

Technologies are generally described for holding an impeller of a pump assembly in place axially with an impeller locking collar by loading the collar against a ring element. In a centrifugal pump assembly, one side of the shaft has a larger diameter for the impeller to abut against. The other side of the shaft may be fitted with an impeller locking collar comprising two portions that can be threaded together and hold the impeller in place by tightening against a ring element such as a split ring or spiral lock. Anti-rotation to avoid loosening of the impeller locking collar may be achieved by providing counter threads against a shaft rotation. Secondary antirotation may be provided by one or more set screws in the impeller locking collar.



21: 2022/05916. 22: 2022/05/27. 43: 2024/08/22 51: G01N 71: BELGIAN VOLITION SRL 72: MICALLEF, Jacob Vincent, ECCLESTON, Mark, Edward, WILSON-ROBLES, Heather, HERZOG, Marielle Chantal Andree, TERRELL, Jason Bradley 33: US 31: 62/942,596 32: 2019-12-02 33: US 31: 63/088,408 32: 2020-10-06 54: USE OF CELL FREE NUCLEOSOMES AS BIOMARKERS 00: -

The invention relates to cell free nucleosomes as biomarkers in plasma samples for vascular or haematological cancers.



21: 2022/05924. 22: 2022/05/27. 43: 2024/07/24 51: A23G

- 71: Société des Produits Nestlé S.A.
- 72: BALDWIN, Adam Lee, LEADBEATER, Richard John, SUTTON, Jonathan
- 33: EP(CH) 31: 19208078.6 32: 2019-11-08

### 54: APPARATUS FOR DEPOSITING 00: -

An apparatus for depositing a food product comprising a nozzle having a pressurised chamber and a food product outlet; a valve needle movable relative between a closed position and to one of a plurality of discrete open positions; and an actuator configured to set the position of the valve needle relative to the outlet, wherein the nozzle is further able to rotate in use to change the direction of flow of a food product being deposited by the apparatus.



21: 2022/05988. 22: 2022/05/30. 43: 2024/08/13 51: A24B; A24F

71: PHILIP MORRIS PRODUCTS S.A.

72: LAVANANT, Laurent, LI, Ping, ONGMAYEB, Gisèle

### 33: EP 31: 19206999.5 32: 2019-11-04 54: MODIFIED AEROSOL-GENERATING ELEMENT FOR USE IN AN AEROSOL-GENERATING ARTICLE OR SYSTEM 00: -

There is provided an aerosol-generating element for use in an aerosol-generating article or system. The aerosol-generating element comprises a solid continuous matrix structure and an aerosolgenerating formulation dispersed within the solid continuous matrix structure. The aerosol-generating formulation is trapped within the solid continuous matrix structure and releasable from the solid continuous matrix structure upon heating of the aerosol-generating element. The solid continuous matrix structure is a polymer matrix comprising one or more matrix-forming polymers. The aerosolgenerating formulation dispersed within the solid continuous matrix structure comprises at least one alkaloid or cannabinoid compound and a polyhydric alcohol. Further, the aerosol-generating formulation dispersed within the solid continuous matrix structure accounts for at least 80 percent by weight of a total weight of the aerosol-generating element.

### 21: 2022/06042. 22: 2022/05/31. 43: 2024/08/22 51: A61K; A61P 71: SUVEN LIFE SCIENCES LIMITED

72: JASTI, Venkateswarlu, SHINDE, Anil, Karbhari, JAYARAJAN, Pradeep, RAVULA, Jyothsna, NIROGI, Ramakrishna, SUBRAMANIAN, Ramkumar, BENADE, Vijay, Sidram, JETTA, Satish, PALACHARLA, Raghava, Chowdary, PANDEY, Santosh Kumar, MOHAMMED, Abdul, Rasheed, GOYAL, Vinod, Kumar 33: IN 31: 201941049516 32: 2019-12-02

### 33: IN 31: 201941049517 32: 2019-12-02 54: TREATING BEHAVIORAL AND PSYCHOLOGICAL SYMPTOMS IN DEMENTIA PATIENTS

00: -

The present invention provides a method for treating behavioral and psychological symptoms in patient with dementia comprising administering an effective dose of pure 5-HT6 receptor antagonist, masupirdine or a pharmaceutically acceptable salt thereof either alone or in combination with an acetylcholinesterase inhibitor such as donepezil and NMDA (N-Methyl-D-aspartate) receptor antagonist, memantine. The present invention further provides use of the said compound in the manufacture of a medicament and pharmaceutical compositions comprising the said compounds intended for the



treatment of the disorders described herein.

21: 2022/06178. 22: 2022/06/02. 43: 2024/07/26 51: A23C 71: Société des Produits Nestlé S.A. 72: BUCZKOWSKI, Johann, DOMBROWSKI, Jannika, IDIEDER, Benoit, CALISTO, Luis, BOVETTO, Lionel Jean René, SCHMITT, Christophe Joseph Etienne 33: EP(CH) 31: 19208395.4 32: 2019-11-11 **54: PLANT-BASED MILK** 00: -

The invention concerns a liquid plant-based milk having an ingredient composition comprising the following ingredients : - at least one plant protein as the only source of protein of said composition, - at least one plant-based oil or fat, - at least one natural sweetener, - calcium citrate tetrahydrate as the only salt of calcium in said composition, - at least one buffer selected from the list of dipotassium phosphate, disodium phosphate, potassium lactate, sodium lactate, potassium carbonate, sodium carbonate, potassium citrate, sodium citrate and a mix of them and their corresponding acids, optionally flavours, colorants and/or vitamins - water, said milk being free of gums, hydrocolloid thickeners and synthetic emulsifiers.

21: 2022/06196. 22: 2022/06/03. 43: 2024/08/22 51: B60T; G01M 71: New York Air Brake, LLC 72: WRIGHT, Eric C 33: US 31: 16/717,280 32: 2019-12-17 54: IMPROVED SYSTEM FOR TRAIN TERMINAL

**TEST** 00: -

A system for identifying whether the braking system of a train is functioning properly such as during a train terminal test. A monitor on a rail car is used to detect abnormalities in the braking system and can report problems to a handheld terminal or a central controller in the locomotive. The monitor has a pressure sensor for measuring brake pipe pressure, auxiliary reservoir pressure, emergency reservoir pressure, and brake cylinder pressure at the rail car. The monitor also has a controller that can calculate whether brake pipe reduction resulting the appropriate amount of brake cylinder pressure. The monitor can then provide the results locally via a visual indicator or remotely to a handheld terminal used by a train inspector or the controller in the locomotive. Testing data over time may be stored for future reference or transmitted remotely to assist with maintenance and service scheduling.



21: 2022/06429. 22: 2022/06/09. 43: 2024/07/26 51: A45C; A63B; F25B; F25D; H02J 71: VENTURINO, Riccardo 72: VENTURINO, Riccardo 33: ZA 31: 2019/08233 32: 2019-12-11 54: RECREATIONAL BAGS 00: -

The invention provides a recreational bag. The recreational bag includes a bag body, an isolated cooler compartment integrated with the bag body, a thermoelectric cooling arrangement associated with the isolated cooler compartment, in use cooling an interior of the isolated cooler compartment, and a solar generator affixed to the bag body, electrically connected to the thermoelectric cooling arrangement to power cooling of the isolated cooler compartment when in use. The invention extends to a remotely operable recreational cooling bag, which includes a recreational bag, as described, and a remote controller which is in wireless communication with the recreational bag via a micro controller, the remote controller operable to activate and deactivate components of the recreational bag on command.



21: 2022/06875. 22: 2022/06/21. 43: 2024/08/08 51: C07C

71: AVANTIUM KNOWLEDGE CENTRE B.V. 72: ANSOVINI, Davide, CLAASSENS-DEKKER, Paula, SINGH, Jagdeep

### 33: EP 31: 20157690.7 32: 2020-02-17 54: PROCESS FOR PREPARING ALKYLENE GLYCOL MIXTURE FROM A CARBOHYDRATE SOURCE WITH DECREASED SELECTIVITY FOR POLYOL SIDE PRODUCTS

00: -

The invention relates to a process for preparing a mixture of alkylene glycols (e.g. ethylene glycol and/or propylene glycol) from a carbohydrate source by catalytic conversion with hydrogen. More specifically, the catalytic hydrogenolysis process of the invention has a decreased selectivity for larger polyols like sorbitol and erythritol, which larger polyols are obtained generally as a side product in catalytic hydrogenolysis, when viewed in comparison to the selectivity for small alkylene glycols (like ethylene glycol and propylene glycol). This is achieved by ensuring the carbohydrate feed is rich in sucrose.

21: 2022/07212. 22: 2022/06/29. 43: 2024/07/08 51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: PARICHEHREHTEROUJENI, Ali, CENTONZA, Angelo, RAMACHANDRA, Pradeepa 33: US 31: 62/945,508 32: 2019-12-09 54: METHODS PROVIDING INFORMATION MESSAGES INCLUDING RACH REPORTS AND RELATED WIRELESS DEVICES

00: -

A wireless device registers (1501) with a first PLMN having a first PLMN identity. Afirst plurality of RA procedures is performed (1505) while registered with the first PLMN. First information related to the first plurality of RA procedures is stored (1509). The wireless device registers (1511) with a second PLMN having a second PLMN identity different than the first PLMN identity after registering with the first PLMN and after performing the first plurality of RA procedures. The first information is discarded (1513) responsive to registering with the second PLMN. A second plurality of RA procedures is performed (1515) while registered with the second PLMN. Second information related to the second plurality of RA procedures is stored (1519). An information message is transmitted to the second PLMN (1525). The information message includes a plurality of RACH reports corresponding to the second plurality of RA procedures based on the second information.



21: 2022/08270. 22: 2022/07/25. 43: 2024/08/07 51: A45D

71: MYANA NATURALS LIMITED

72: MOUHAMAD, Youmna

33: GB 31: 2001335.5 32: 2020-01-31

## 54: HAIR COMB AND APPLICATOR DEVICE 00: -

A hair comb and applicator device (1) is disclosed, comprising: a body (10, 20) enclosing a reservoir (5) for containing a hair treatment substance; a plurality of teeth (40) arranged in at least one row; and a roller (30), rotatably mounted within the body, to transfer hair treatment substance from the reservoir to hair during use. The body includes a wall 60 comprising: a concave inner surface (64) providing a seat for the roller and a convex outer surface (61) from which the plurality of teeth (40) extend. A

plurality of through slots (62) are provided in the wall (60), the slots (62) being interposed between the plurality of teeth (40) and wherein each slot (62) extends as an arc along the wall.



21: 2022/08392. 22: 2022/07/27. 43: 2024/08/08 51: F26B

71: REGENERON PHARMACEUTICALS, INC. 72: TANG, Xiaolin, KLEPPE, Mary, CHARI, Ravi, TZUL, Franco

### 33: US 31: 62/969,961 32: 2020-02-04 54: TARGET RESIDUAL MOISTURE CONTENT FOR LYOPHILIZED DRUG PRODUCT 00: -

Lyophilization methods for preparing protein formulations for long-term storage at room temperature or improved stability at refrigeration storage are provided. Specifically, the present application provides lyophilization methods to obtain a target percentage of residual moisture of a lyophilized product, such as 3-5% residual moisture. The secondary drying of the lyophilization can be conducted under controlling rate of desorption under a temperature which is similar to the shelf temperature of the primary drying. Alternatively, the lyophilization can be conducted without a distinguished secondary drying step.



21: 2022/08614. 22: 2022/08/02. 43: 2024/08/08 51: B60T

71: AUSCO PRODUCTS, INC.

72: LEONARD, Nancy, DENNIS, Brian, P.,
BALDEOSINGH, Howard
33: US 31: 63/229,128 32: 2021-08-04
54: MULTI-DISC BRAKE HAVING RADIAL WEAR

PIN CARTRIDGE AND INTEGRATED WATER JACKET 00: -

A multi-disc brake is provided. The brake can include a radial wear pin cartridge for wear indication. The brake can include an integrated water jacket for cooling.



21: 2022/08678. 22: 2022/08/03. 43: 2024/08/06

- 51: E04B; E04C; E04G
- 71: BAM NUTTALL LIMITED
- 72: PROTHERO, John
- 33: GB 31: 2001631.7 32: 2020-02-06

### 54: MODULAR STRUCTURE FOR PROVIDING ON-SITE PROTECTION

00: -

The present invention relates to a modular assembly, a site factory, for at least partially enclosing a site during construction of a structure. The modular assembly comprising: a plurality of portal frames, each portal frame comprising two columns and a roof beam, each column and roof beam comprising a plurality of pre-assembled units; a jack-up frame for each column; at least two first rails, each of the first rails being mounted to at least one of the roof beams; at least one second rail slidably mounted to the at least two first rails; and a plurality of panels of a flexible material configured to provide a full enclosure of the site and mounted above the roof beam. The or each second rail is configured to slidably receive at least one lifting device. The pre-assembled units are configured to be connected on site, and lifted using said jack-up frames, to form the portal frames, and wherein each first rail, and the or each second rail are configured to be mounted on the portal frames on site.



21: 2022/08710. 22: 2022/08/04. 43: 2024/08/12 51: C07K

71: REGENERON PHARMACEUTICALS, INC. 72: TUSTIAN, Andrew, WANG, Shunhai, LI, Ning, VARTAK, Ankit, DALY, Thomas, PYLES, Erica, PALACKAL, Nisha, FRANKLIN, Matthew 33: US 31: 62/944,635 32: 2019-12-06 33: US 31: 63/065,012 32: 2020-08-13 54: ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME 00: -

The present disclosure pertains to compositions comprising anti-VEGF proteins and methods for producing such compositions.



21: 2022/08785. 22: 2022/08/05. 43: 2024/07/05 51: B01D 71: PROTOSTAR GROUP LTD. 72: HASAN, TALAL, KHIMJI, KARAN , TASFAI, EHAB

### 33: US 31: 63/230,843 32: 2021-08-09 54: SYSTEM AND METHOD FOR PERMANENT CARBON DIOXIDE SEQUESTRATION USING A RENEWABLE ENERGY SOURCE 00: -

Here is provided a system and method to mineralize CO2into peridotite rock formations in situin a controlled and efficient manner removing carbon permanently from the atmosphere. Carbon dioxide sequestration into peridotite rocks happens naturally by means of natural weathering. This process is slow and might take thousands of years to transform considerable amount of CO<sub>2</sub>into carbonate rocks. The present method disclosed herein shortens the time of mineralization considerably in a controlled and quantifiable manner. This is typically done by injecting CO<sub>2</sub>into peridotite rock formation and creating efficient reaction pathways and conditions for the mineralization reaction to happen and therefore store CO<sub>2</sub>by conversion into magnesite (MgCO<sub>3</sub>) and calcite (CaCO<sub>3</sub>).



- 21: 2022/08848. 22: 2022/08/08. 43: 2024/08/22
- 51: A61K; A61P 71: SELO MEDICAL GMBH
- 72: FUCHS, Norbert
- 33: EP 31: 20160817.1 32: 2020-03-03

### 54: COMPOSITION FOR USE IN A TREATMENT OF CERVICAL CELL ABNORMALITIES COMPRISING SELENITE COMPOUND AND ACID 00: -

The present invention provides a pharmaceutical composition containing a selenite-containing compound and a pharmaceutically acceptable acid, selected from citric acid, acetic acid, malic acid, carbonic acid, sulfuric acid, nitric acid, hydrochloric acid, fruit acids and mixtures thereof, for use in reducing progression of cervical cell abnormalities in a female patient, wherein the patient is p16-positive and Ki-67-positive at least in a region of the cervix uteri. The composition is applied intravaginally.

21: 2022/08947. 22: 2022/08/10. 43: 2024/07/01 51: A61K; A61P; C07H 71: ATEA PHARMACEUTICALS, INC. 72: SOMMADOSSI, JEAN-PIERRE, MOUSSA, ADEL 33: US 31: 62/982,670 32: 2020-02-27 33: US 31: 63/040,985 32: 2020-02-27 33: US 31: 63/054,680 32: 2020-07-21 33: US 31: 63/073,328 32: 2020-07-21 33: US 31: 63/073,328 32: 2020-09-01 33: US 31: 63/146,456 32: 2021-02-05 33: US 31: 63/032,247 32: 2020-03-24 33: US 31: 63/032,247 32: 2020-05-29 33: US 31: 63/039,352 32: 2020-06-15 54: HIGHLY ACTIVE COMPOUNDS AGAINST COVID-19

00: -

The present invention is the use of purine nucleotide phosphoramidates or pharmaceutically acceptable salts thereof administered in an effective amount for the treatment or prevention of COVID-19, an infection caused by the SARS CoV-2 virus in a host, for example a human, in need thereof.



21: 2022/08980. 22: 2022/08/11. 43: 2024/08/08 51: G01L 71: VAN NIEKERK, De Wet 72: VAN NIEKERK, De Wet 33: ZA 31: 2021/03165 32: 2021-05-11

### **54: CRANE MONITORING**

### 00: -

The invention relates a crane monitoring pad, which includes a support arrangement comprising of a bottom support surface for supporting the crane monitoring pad on a support area and a top support surface for supporting an outrigger foot of a crane thereon. A load measurement device disposed on the support arrangement for measuring the load of the outrigger foot on the top support surface and a display, of which both the load measurement device and the display are connected to a processor, which processor allows for the displaying of the load measured on the load measurement device on the display, relative to a maximum permissible load. The invention extends to a crane monitoring system, which includes a least three crane monitoring pads, each of which are operable to measure a point load of an outrigger leg on the pad and a central processor.



21: 2022/08983. 22: 2022/08/11. 43: 2024/08/14 51: A22B; A22C

71: VAN HESSEN HOLDING B.V.

72: DE WINTER, Thomas Jozef, S., DE WINTER, Frederik Marcel, D., SMITS, Jürgen, Johannes, Antonius, Thomas

33: NL 31: 2024837 32: 2020-02-05 54: DEVICE AND METHOD FOR SEPARATING TISSUE FROM AN INTESTINE 00: -

The invention relates to a tissue separating device for separating an intestine from a cluster of organs harvested from an animal, in particular porcine, ovine or bovine, the intestine being connected to the remainder of the cluster through tissue. The tissue separating device comprises a guiding device having at least one guiding surface configured to contact

the intestine, and a tissue severing device configured to provide a separation in the tissue close to the intestine. The guiding device further comprises a first guiding member and a second guiding member being movable with respect to each other to define a gap configured to accommodate said tissue. The gap has a variable gap width. The tissue severing device is configured to be operative in the gap, wherein the tissue separating device further comprises a resilient member configured to exert a force on at least one of the first guiding member and the second guiding member, the resilient member force driving the first guiding member and the second guiding member towards each other.



21: 2022/09513. 22: 2022/08/25. 43: 2024/08/06 51: C08B; C12N; C12P; C13K; D21C 71: COMET BIOREFINING INC. 72: RICHARD, Andrew, D'AGOSTINO, Dennis 33: US 31: 62/145,785 32: 2015-04-10 33: US 31: 62/246,271 32: 2015-10-26 54: METHODS AND COMPOSITIONS FOR THE TREATMENT OF CELLULOSIC BIOMASS AND PRODUCTS PRODUCED THEREBY 00: -

A two-step method for activating a cellulosic feedstock is described. The feedstock is subjected to a first high temperature activation step at a temperature greater than 190°C and a second activation step at a lower temperature under alkali conditions. Also described are methods and compositions for the enzymatic hydrolysis of activated cellulose using one or more cellulase enzymes, a surfactant and polyaspartic acid. Also described are products of the methods.

21: 2022/09520. 22: 2022/08/25. 43: 2024/07/01 51: B05B; A01M; B05C 71: BOOHER, STEVEN R, VANDENBARK, GARY A, HILLIGOSS, MIKE 72: BOOHER, STEVEN R, VANDENBARK, GARY A, HILLIGOSS, MIKE 33: US 31: 16/773,352 32: 2020-01-27 54: SPRAYING SYSTEMS, KITS, VEHICLES, AND METHODS OF USE 00: -

Kits for vehicles may include pulse-width-modulated solenoids configured to selectably turn individual nozzle assemblies on and off and vary their flow rates when installed in fluid communication with the nozzle assemblies, one or more wirelesslycontrollable solenoid controllers, a wiring harness to electrically connect the pulse-width-modulated solenoids to the controlled s), a wirelesslycommunicating GPS antenna system, a LiDAR sensing system which may be wirelesslycommunicating, associated wiring and bracketry to connect the kit with a vehicle, and a mobile device configured to wirelessly cause the one or more controllers to turn individual nozzle assemblies on and off and vary their flow rates based on sensed data and/or recorded data, in view of user-selected criteria.



21: 2022/09672. 22: 2022/08/30. 43: 2024/07/29 51: A24F; A47J; B65D 71: Jason ASHTON 72: ASHTON, Jason 33: US 31: 16/797,665 32: 2020-02-21 **54: DUAL-ACCESS CONTAINER CLOSURE** 00: -

A dual-access closure for a beverage container has a body having an attachment interface to engage to a top of a beverage container, a sealed, elongated enclosure attached to an underside of the body, a first access element adapted to open and close a first opening passing through the body into the sealed, elongated enclosure, a vapor-producing apparatus within the sealed, elongated enclosure and coupled to the first opening, and a second access element adapted to open and close a second opening passing through the body, outside the sealed, elongated enclosure. With the body engaged to the top of the beverage container, a user is enabled to manipulate the first access interface to draw vapor from the vapor producing apparatus, and to manipulate the second access element to ingest a beverage from the beverage container.



21: 2022/09750. 22: 2022/08/31. 43: 2024/08/07 51: E02F

71: TALON ENGINEERING SDN BHD
72: TAN, Jia Hou, DENNIS, Neil Robert
33: AU 31: 2020900305 32: 2020-02-04
54: LOCK ASSEMBLY FOR GROUND ENGAGING
TOOL
00: -

A locking assembly for locking a ground engaging tool such as a shroud to a bucket lip. The bucket lip has a C-shaped boss fixed thereto. The ground engaging tool has a recess to receive a lock, the recess having an opening which is shorter in axial length than the recess. The lock is arranged to pivot about the boss as the ground engaging tool is slid rearwardly relative to the bucket lip. When the lock is located entirely within the recess, it can be accessed through a rear tunnel and tightened to hold the assembly in place.



21: 2022/10032. 22: 2022/09/08. 43: 2024/08/22 51: A61K; C07K 71: BIOCON LIMITED, CENTRO DE INMUNOLOGÍA MOLECULAR 72: NAIR, Pradip, CASIMIRO, Jose Enrique Montero, MAZUMDAR SHAW, Kiran, BUGHANI, Usha, ATHALYE, Sandeep Nilkanth, RAMAKRISHNAN, Melarkode Subbaraman, CROMBET RAMOS, Tania, LEÓN MONZÓN, Kalet, RAMOS SUZARTE, Mayra 33: IN 31: 202041014994 32: 2020-04-04 33: CU 31: CU-2020-0027 32: 2020-04-17 54: ANTI-CD6 ANTIBODY COMPOSITIONS AND METHODS FOR TREATING AND REDUCING **NEGATIVE EFFECTS OF A CORONAVIRUS INCLUDING COVID-19** 00: -

The present invention provides the use of anti-CD6 antibodies that specifically bind to domain 1 of CD6 for treating effects of a coronavirus or bacterial agent and particularly COVID-19 and variants thereof. The anti-CD6 antibodies of the present invention exhibit therapeutic activity by reducing the overactive immune response, such as the high expression levels of cytokines.

21: 2022/10247. 22: 2022/09/15. 43: 2024/07/01 51: A23G; A23D 71: AAK AB (PUBL) 72: JUUL, BJARNE 33: SE 31: 2050191-2 32: 2020-02-20 54: FAT COMPOSITION SUITABLE AS A COCOA BUTTER EQUIVALENT

00: -The present invention relates to a fat composition suitable for use as a cocoa butter equivalent, wherein the fat composition comprises triglycerides of which 60% by weight or more is Sat<sub>2</sub>O, wherein Sat is selected from St, P, or combinations hereof; and wherein, in the fat composition, the content of St<sub>2</sub>O is 40% by weight or less, and the total content of StOP + StPO + St2O is 60% by weight or less, wherein O is oleic acid, St is stearic acid, and P is palmitic acid; and wherein the fat composition has a Bühler crystallization index (BCI) value of 2.5 or more. Uses of the fat composition is also disclosed.

21: 2022/10319. 22: 2022/09/16. 43: 2024/07/01 51: A61K; A61P 71: POXEL 72: BOLZE, SÉBASTIEN, FOUQUERAY, PASCALE, HALLAKOU-BOZEC, SOPHIE 33: EP 31: 20166035.4 32: 2020-03-26 54: USE OF A THIENOPYRIDONE DERIVATIVE IN THE TREATMENT OF ADRENOLEUKODYSTROPHY OR ADRENOMYELONEUROPATHY 00: -

The invention relates to the use of a thienopyridone derivative, or a pharmaceutical composition comprising the same, in the treatment of genetic neurodegenerative diseases selected from adrenoleukodystrophy (ALD) and adrenomyeloneuropathy (AMN).

21: 2022/10612. 22: 2022/09/26. 43: 2024/08/07 51: A24D

71: PHILIP MORRIS PRODUCTS S.A. 72: UTHURRY, Jerome, NESOVIC, Milica, MONTANARI, Edoardo, ORSOLINI, Paola 33: EP 31: 20160249.7 32: 2020-02-28

### 54: AEROSOL-GENERATING ARTICLE HAVING NOVEL CONFIGURATION 00: -

There is provided an aerosol-generating article (10) for producing an inhalable aerosol upon heating, the aerosol-generating article (10) comprising: a rod (12) of aerosol-generating substrate; and a downstream section (14) arranged downstream of the rod (12) of aerosol-generating substrate and in axial alignment with the rod (12) of aerosol-generating substrate and in axial alignment with the rod (12) of aerosol-generating substrate, the downstream section (14) comprising one or more downstream elements. According to the invention, the aerosol-generating article (10) is arranged such that the centre of mass of the aerosol-generating article (10) is at least 60 percent of the way along the length of the aerosol-generating article (10) from the downstream end.



21: 2022/10613. 22: 2022/09/26. 43: 2024/08/07 51: A24D

71: PHILIP MORRIS PRODUCTS S.A. 72: UTHURRY, Jerome, NESOVIC, Milica, ORSOLINI, Paola, D'AMBRA, Gianpaolo 33: EP 31: 20160220.8 32: 2020-02-28 54: AEROSOL-GENERATING ARTICLE INCLUDING SUBSTRATE WITH GEL COMPOSITION 00: -

There is provided an aerosol-generating article (10) for producing an inhalable aerosol upon heating, the aerosol-generating article (10) comprising: a rod (12) of aerosol-generating substrate comprising a gel composition, the gel composition comprising at least one gelling agent, at least one of an alkaloid compound and a cannabinoid compound and an aerosol former; a mouthpiece element (42); and an intermediate hollow section (50) between the rod of aerosol-generating substrate and the mouthpiece element. The intermediate hollow section (50) comprises an aerosol-cooling element (24) in axial alignment with the mouthpiece element and abutting

the upstream end of the mouthpiece element (42), the aerosol-cooling element (24) comprising a hollow tubular segment (34) having a length of less than 10 millimetres and defining a longitudinal cavity providing an unrestricted flow channel, wherein the flow channel is substantially empty. The intermediate hollow section (50) further comprises a support element (22) downstream of the rod (12) of aerosolgenerating substrate, the support element comprising a hollow tubular segment (26) defining a longitudinal cavity (28) providing an unrestricted flow channel, the hollow tubular segment (26) having a wall thickness of at least 1 millimetre.



21: 2022/10652. 22: 2022/09/26. 43: 2024/08/07 51: G06T

- 71: SHANGHAI MARITIME UNIVERSITY
- 72: HUANG, Xinxin, ZHOU, Weina

### 33: CN 31: 202110441747.0 32: 2021-04-23 54: OBSTACLE SEGMENTATION NETWORK BASED ON USV AND GENERATION METHOD THEREFOR

### 00: -

Disclosed in the present invention is an obstacle segmentation network based on a USV and a generation method therefor, wherein in an encoding part, a modified VGG16 is formed by replacing fully connected layers of VGG16 and a max pooling layer in block5 with a dilated convolution layer, and the modified VGG16 is used as an encoder. The object of using the dilated convolution layer is to expand a receptive field and obtain more context information without losing resolution. Two attention refinement modules are added into a decoding part of the network for refining output features, and then a feature fusion module is added to realize the fusion of high-level and low-level features. The novel semantic segmentation network is based on a UNet encoding and decoding structure, and it is improved

and promoted on this basis. The present invention may better detect obstacles, especially small obstacles, and reduce a false detection rate and a missed detection rate.



21: 2022/10726. 22: 2022/09/28. 43: 2024/07/16 51: A61K

71: SINGH, Pawan, Kumar, SINGH, Sarita,

GAIKWAD, Vaishali Hanmantrao, GAIKWAD, Aditi Hanmantrao

72: SINGH, Pawan, Kumar, SINGH, Sarita, GAIKWAD, Vaishali Hanmantrao, GAIKWAD, Aditi Hanmantrao

33: IN 31: 202021013797 32: 2020-03-30 54: SYNERGISTIC HERBAL COMPOSITION AS A BROAD-SPECTRUM PROPHYLACTIC MAJOR AND METHOD TO PREPARE THE SAME

00: -

Disclosed herein are formulations of a poly-herbal synergistic composition which exhibit marked immunomodulatory, anticancer, antiviral and antiinflammatory properties. Also disclosed are the methods of preparing and using the same.



21: 2022/10941. 22: 2022/10/05. 43: 2024/08/07

### 51: B01D; E21B

71: CARBON GEOCYCLE, INC.
72: POPE, John, BARD, Wade A.
33: US 31: 62/987,178 32: 2020-03-09
54: PROCESS AND SYSTEM FOR GREENHOUSE
GAS CAPTURE AND SEQUESTRATION
00: -

The method includes absorbing or adsorbing CO2 gas into water to form a CO2 solution gas mixture stream and injecting the CO2 solution gas mixture stream into a wellbore into a gas sequestration medium.

21: 2022/11237. 22: 2022/10/13. 43: 2024/08/22 51: F01K; F24H; F28D; H02J; H05B 71: KRAFTANLAGEN ENERGIES & SERVICES SE 72: DOERBECK, Till, HERRMANN, Jakob, SCHWARZ, Gerhard

### 33: DE 31: 10 2020 111 987.9 32: 2020-05-04 54: HEATING DEVICE, HEATING SYSTEM, HEAT STORAGE DEVICE AND HEAT STORAGE SYSTEM

00: -

The invention relates to a heating device for heating a gas flow, comprising two electrical connection elements (43, 44) for connection to a power source, and at least one heating plate unit (39A, 39B, 39C, 39D, 39E) with an inflow side and an outflow side, which comprises a plurality of heating plate strips (45, 46) lying in the gas flow and each having a first end region and a second end region, wherein adjacent heating plate strips (45, 46) in the first end regions and the second end regions are interconnected via a conductive spacer structure (47).



21: 2022/12112. 22: 2022/11/07. 43: 2024/08/16 51: A43B

71: DONGGUAN QI QI CLOTHING CO., LTD 72: YIN, JiQi

### 33: CN 31: 202210239663.3 32: 2022-03-11 54: A BALANCED INSOLE STRUCTURE WITH MASSAGE FUNCTION

00: -

The invention discloses a balanced insole structure with a massage function and relates to the technical field of insoles. The balanced insole structure with a massage function includes an insole main body and a connecting portion; the arch portion of the insole main body is provided with a convex portion matched with the curvature of the sole of the foot; the connecting portion is connected to two ends on the lower side of the convex portion, thus forming a stabilization cavity through their connection; and the insole main body is also provided with a massage protrusion on its upper surface. In the invention, the provision of the insole main body with the massage protrusion on its upper surface can realize the massage function of the insole. In addition, the provision of the arch portion of the insole main body with the convex portion matched with the curvature of the sole of the foot, can well fit the curvature of the sole of the foot and improve the adaptability and comfort in use of the insole structure. Due to the connection of the connecting portion to the two ends on the lower side of the convex portion, the connecting portion will exert a pull effect on the two ends on the lower side of the convex portion, thereby preventing the deformation and failure of the

insole resulting from the excessive expansion of the two ends on the lower side of the convex portion, which greatly improves the overall stability of the insole structure, prolongs the service life, and is convenient for widespread promotion.



21: 2022/12265. 22: 2022/11/10. 43: 2024/07/01 51: A01C

71: AMVAC HONG KONG LIMITED

72: WOODRUFF, KEITH, KALTNER, BRIAN, RICE, RICHARD L

33: US 31: 62/724,001 32: 2018-08-28

### 54: CONTAINER SYSTEM FOR TRANSPORTING AND DISPENSING AGRICULTURAL PRODUCTS 00: -

A container system for transporting and dispensing agricultural products. The container system includes a housing assembly and a set of agricultural product containers. The housing assembly has at least one slot assembly for the set of agricultural product containers. The set of containers comprises a liquid agricultural product container and/or dry agricultural product container, and is configured to be releasably contained in the slot assembly via a quick detach mechanism of the housing assembly. The slot assembly and set of agricultural product containers are cooperatively configured to provide the ability to utilize a container in the slot assembly.



21: 2022/12266. 22: 2022/11/10. 43: 2024/07/11 51: G06F; G06Q 71: GOGIGIT, LLC 72: XU, MING, PATEL, DIMPLE 33: US 31: 17/528,458 32: 2021-11-17 54: DIGITAL IMAGING PRODUCTION MANAGEMENT DEVICES AND PROCESSES 00: -

The present invention is devices and processes for producing digitally imaged products. Multiple digital images are encrypted with public keys that are unique to each digital image of the multiple digital images. A purchaser or producer of the product(s) to be imaged selects a digital image from the multiple digital images. A purchaser or producer provides payment information to the central computing device for an imaged substrate or substrates imaged with the digital image selected. An imaged product producer is provided with a private key. The imaged product producer decrypts the digital image using a private key assigned to the imaged product producer, and the imaged product producer produces an imaged substrate comprising the selected digital image formed on the substrate. Payment for the imaged substrate is allocated to participants, including allocating a portion of the payment for the imaged product to one or more creators of the digital image.



21: 2022/12366. 22: 2022/11/14. 43: 2024/08/16 51: C12G 71: GM GLOBAL (CHINA) LIMITED 72: FRITH, Colin 33: ZA 31: 2021/08969 32: 2021-11-12

### 54: METHOD OF PREPARING A WINE BLENDED WITH HONEY

00: -

The invention relates to a method of preparing a wine infused with honey, said method including providing a source of wine, said source being a red wine with a tannin concentration of at least 3400 to 5 3800 mg per litre and filtering the wine using a bulk filtration and providing a source of honey and heating the honey to lower a viscosity of the honey and mixing the wine with the honey and filtering the honey and wine mixture through a first filter and filtering the honey and wine mixture through a second filter, having a smaller aperture than the first filter and adding sulphur dioxide (SO2) to the honey and SO2 mixture through a third filter and adding velcorin to the honey, wine and SO2 mixture



21: 2022/12490. 22: 2022/11/16. 43: 2024/08/22 51: C12N

71: SHANGHAITECH UNIVERSITY

72: CHEN, JIA, YANG, BEI, YANG, LI, HUANG, XINGXU, WANG, LIJIE

33: CN 31: PCT/CN2019/074577 32: 2019-02-02 54: INHIBITION OF UNINTENDED MUTATIONS IN GENE EDITING

00: -

Provided are fusion proteins and related molecules useful for conducting base editing with reduced or no off-target mutations. The fusion proteins may include a first fragment comprising a nucleobase deaminase or a catalytic domain thereof, a second fragment comprising a nucleobase deaminase inhibitory domain, and a protease cleavage site between the first fragment and the second fragment. Also provided are improved prime editing systems, including prime editing guide RNA with improved stability.

21: 2022/12544. 22: 2022/11/17. 43: 2024/07/11 51: H04L; G06Q 71: GOOGLE, LLC 72: HO, CRISTEN ANDERSON, LAUNAY, YOHAN, GOEIJ, DILLON AMADEO WIRANTONO, TAN, KIAT CHUAN, LIU, XINAN 54: SYSTEMS AND METHODS FOR SECURE **PAYMENTS VIA AN ALTERNATIVE COMMUNICATION PROTOCOL** 00: -

A computer-implemented method of enabling secure payments over a third-party transport later comprises receiving, by a computing system with one or more processors, an encrypted transaction token from a user computing device using a first communication protocol. The encrypted transaction token is decrypted to access transaction details stored within the encrypted transaction token. The computing system then transmits transaction details to a transaction processing system via a second communication protocol. The computing system receives from the transaction processing system, confirmation data indicating a completed transaction based on the transaction details and transmits the confirmation data to the user computing device.



### 21: 2022/12623. 22: 2021/05/21. 43: 2024/07/03 51: H04N

71: GE VIDEO COMPRESSION, LLC 72: SÁNCHEZ DE LA FUENTE, Yago, SÜHRING, Karsten, HELLGE, Cornelius, SCHIERL, Thomas, SKUPIN, Robert, WIEGAND, Thomas 33: EP 31: 20176178.0 32: 2020-05-22 33: EP 31: 20176206.9 32: 2020-05-22 54: VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING **ADVANCED VIDEO CODING CONCEPTS** 00: -

An apparatus (200) for receiving an input video data stream according to an embodiment is provided. The input video data stream has a video encoded thereinto. The apparatus (200) is configured to generate an output video data stream from the input video data stream.



- 21: 2022/12626. 22: 2022/11/21. 43: 2024/07/05 51: H04W; H04L; G01C
- 71: SHEER VERSATILITY GROUP (PTY) LTD.
- 72: NGCANGA, SIVUYILE
- 33: ZA 31: 2021/05983 32: 2021-08-20 54: NAVIGATION MODULE AND SYSTEM
- 00: -

The present invention relates to a navigation system, as well as a messaging platform. The navigation system utilises area names/codes and property codes for navigational purposes. The messaging platform utilises direct short-range wireless

communication between mobile devices in order to provide a network where messages can be sent via interlinking mobile devices, without the need for Internet connectivity. Messages can therefore effectively hop from a sender via various mobile devices to an intended recipient.



21: 2022/12738. 22: 2022/11/23. 43: 2024/07/05 51: A23K

71: INTELLIFARM (PTY) LTD.

72: DE WET, PIETER JACOBUS

33: ZA 31: 2021/08789 32: 2021-11-09 54: FEEDING SYSTEM AND METHOD

### 00: -

Animal feeding system and method, typically used for feed block feeding in the intensive and semiintensive cattle, sheep, pig, and goat farming industries. The method comprises the steps of determining a unit nutritional value of the feed; determining a required mass of feed associated with a predetermined number of animals; and packaging a bundle of feed with a mass equal to said required mass associated with the predetermined number of animals into a single unit of feed.



- 21: 2022/12821. 22: 2022/11/25. 43: 2024/08/16 51: E05C
- 71: GROENEWALD, Martin
- 72: GROENEWALD, Martin
- 33: ZA 31: 202106172 32: 2021-08-26

### 54: SECURITY BARRIERS 00: -

The invention relates a security device installable across a doorway, which includes a pair of security barriers, each security barrier includes an elongated member having a structure connector on one end hingedly connected to the elongated member, and a complementary connection formation on an opposed end of the elongated member. The complementary connection formation defines a guick release connection mechanism, such that when the structure connectors are attached to opposed sides of a doorway, the complementary connection formations of the quick release connection mechanism are connectable to each other to define a barrier across the doorway. Furthermore, the security device includes a biasing means positioned between the elongated member and the complementary connection formation, which allows for the security barrier to be operable between an extended position and a retracted position, resulting in the quick release connection formation.



21: 2022/12947. 22: 2022/11/29. 43: 2024/08/15 51: G06Q

71: JHAGAROO, Randir Tahal

72: JHAGAROO, Randir Tahal

33: US 31: 63/283,748 32: 2021-11-29

54: FACILITATING APPOINTMENT OF AN AGENT 00: -

The invention relates a method of facilitating the appointment of an agent, the method including receiving details of a property for sale from a remote computing device of a seller into a database of a computer system arranged as a facilitating system and presenting details of the property on a remote computing device of at least one agent whilst masking (or hiding) the details of the owner from the agent until such time that the owner has accepted the offer/pitch from the agent, and the agent has paid for this acceptance upon which it becomes a lead which the agent can then contact the owner of said property. Thereafter, receiving an offer from an agent to sell the property, which offer is displayed to a seller, the seller provides an acceptance of the offer from the agent, which acceptance of the offer is communicated to the agent.



21: 2022/12999. 22: 2022/11/30. 43: 2024/07/05 51: B21B; C22B

71: NUVEST RECOVERY SOLUTIONS (PTY) LTD 72: TUNNICLIFFE, IAN, PRETORIUS, ARTHUR 33: ZA 31: 2021/09746 32: 2021-11-26 54: METHOD OF CLEANING A STEEL SURFACE 00: -

THIS invention relates to a process for deoxidising and removing mill scale from the surface of steel rod or sheet using Laser Ablation. The steel surface is subjected to Laser Ablation with a 200 to 2000 watt laser, with the ablation threshold set for mill scale removal without damage to the rod or sheet and without heating the rod or sheet so as to not alter the heat treatment of the rod or sheet.

21: 2022/13079. 22: 2022/12/02. 43: 2024/08/16 51: A61K; A61P 71: HOVID BERHAD 72: HO, David Sue San, HO, Sarah Lee-Mun 33: MY 31: PI 2020002852 32: 2020-06-04 54: COMPOSITION FOR NORMALISATION OF FATTY LIVER AND METHOD FOR PRODUCING THE SAME

00: -

400

This invention relates to a drug delivery composition, a self-emulsifying composition thereof and a method for producing the same for oral administration to enhance the normalisation of fatty liver. More particularly, the self-emulsifying composition comprises a non-ionic surfactant, a co-surfactant, vegetable oil and active ingredients comprising phospholipids, tocotrienols and tocopherols. The composition aforementioned works synergistically to provide an effectively delivered micronutrients and vitamins to the liver and also facilitate hepatic regeneration thereof.

21: 2022/13092. 22: 2022/12/02. 43: 2024/08/16 51: A61K; C07K; C12N; A61P 71: JOINT STOCK COMPANY "BIOCAD" 72: MADERA, Dmitriy Aleksandrovich, GERSHOVICH, Pavel Mikhailovich, VESELOVA, Anna Sergeevna, SHUGAEVA, Tatiana Evgenievna, LOMUNOVA, Maria Andreevna, SHKLIAEVA, Margarita Aleksandrovna, MOROZOV, Dmitry Valentinovich

### 33: RU 31: 2020118148 32: 2020-06-02 54: CODON-OPTIMIZED NUCLEIC ACID THAT ENCODES SMN1 PROTEIN, AND USE THEREOF 00: -

The present application relates to the fields of genetics, gene therapy, and molecular biology. More specifically, the present invention relates to an isolated codon-optimized nucleic acid that encodes the SMN1 protein (survival motor neuron protein), an expression cassette and a vector based thereon, as well as an AAV9 (adeno-associated virus serotype 9)-based recombinant virus for increasing the expression of the SMN1 gene in target cells, and use thereof.

21: 2022/13304. 22: 2022/12/08. 43: 2024/08/22 51: E21B

71: CHINA PETROLEUM & CHEMICAL CORPORATION, SINOPEC SOUTHWEST OIL & GAS COMPANY

72: LEI, Wei, HOU, Zhimin, DONG, Haifeng, YAN, Yancheng, LAN, Lin, WANG, Xingwen, WANG, Xiaogang, QIAO, Zhiguo, FANG, Zhou
33: CN 31: 202010534828.0 32: 2020-06-12
33: CN 31: 202010534849.2 32: 2020-06-12
33: CN 31: 202010596721.9 32: 2020-06-28
54: WELLBORE SEGMENTED OPERATION
METHOD AND RUBBER PLUG FOR SAID
METHOD

00: -

Disclosed is a wellbore segmented operation method, comprising the following steps: after a first drilling operation is performed on a borehole, running a pipe column (100), wherein the pipe column (100) successively comprises a floating hoop (2), a rubber plug base (7), a toe end sliding sleeve (3) and a fracturing sliding sleeve (4) in a bottom-up direction; performing a cementing operation, so that cement slurry pumped into an inner cavity of the pipe column (100) enters an annulus between the pipe column and the borehole by means of the rubber plug base (7) and the floating hoop (2) and forms a cement ring, and the cement ring isolates the toe end sliding sleeve (3) and the fracturing sliding sleeve (4) from each other; performing a second drilling operation, so as to ensure that the toe end sliding sleeve (3) of the pipe column (100) is exposed; performing test pressure on the pipe column; and performing a segmented fracturing construction. Further disclosed is a rubber plug (20) suitable for the wellbore segmented operation method.



21: 2022/13860. 22: 2022/12/21. 43: 2024/07/31 51: G01D; G01T 71: INNOSAPIEN AGRO TECHNOLOGIES PRIVATE LIMITED 72: NERKAR, Sarang Dilip 33: IN 31: 202021023194 32: 2020-06-02 54: METHODS, DEVICES, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR INTEGRATING STATE DATA FROM A PLURALITY OF SENSORS 00: -
The invention relates to sensor system arrangements and configurations. In particular, the invention provides methods, devices, systems and computer program products for integrating, compositing and / or processing data representing a measurable state within a region-of-interest, that has been received from a plurality of sensors that respectively have different input sensitivities, spectral sensitivity ranges and / or input capture ranges.



21: 2023/00151. 22: 2023/01/03. 43: 2024/07/05 51: A24B; A61K

71: PHILIP MORRIS PRODUCTS S.A.

72: BRUUN, Heidi Ziegler, JAKOBSEN, Bine Hare, STAHL, My Ly Lao

33: DK 31: PCT/DK2020/050159 32: 2020-06-05
33: DK 31: PCT/DK2020/050160 32: 2020-06-05
33: DK 31: PCT/DK2020/050161 32: 2020-06-05
33: DK 31: PCT/DK2020/050162 32: 2020-06-05
33: DK 31: PCT/DK2020/050163 32: 2020-06-05
54: NON-TOBACCO ORAL NICOTINE POUCH COMPOSITION

00: -

A non-tobacco oral nicotine pouch composition is disclosed, the pouch composition comprising water in an amount of at least 15 % by weight of the pouch composition, nicotine, and at least one sugar alcohol, wherein the pouch composition is free of humectants consisting of alginate, propylene glycol, hydroxypropyl cellulose and glycerol. Also, an oral pouched nicotine product is disclosed.

21: 2023/00166. 22: 2023/01/03. 43: 2024/07/04 51: F28F 71: General Electric Technology GmbH 72: VITSE, Frederic 33: US 31: 16/924,407 32: 2020-07-09 54: SYSTEM AND METHOD FOR HEAT EXCHANGER CONTROL BASED ON REAL-TIME CORROSION MONITORING 00: - A system and method of controlling corrosion of a heat exchanger, having a hot gas inlet and outlet and a cold side inlet and outlet. The method includes determining a temperature of the heat exchanger at a first selected location, controlling a temperature of a corrosion sensing device to a first selected temperature based on the temperature of the surface of the heat exchanger and determining a corrosion rate associated with the heat exchanger surface at the first selected location for the first selected temperature. The method also includes comparing the corrosion rate to an expected corrosion rate, determining a cold side fluid inlet temperature target for the heat exchanger based at least in part on the comparing, the determined corrosion; and controlling a cold side fluid inlet temperature based at least in part on the determined inlet temperature target, determined corrosion rate, and expected corrosion rate.



21: 2023/00348. 22: 2023/01/09. 43: 2024/07/05 51: A61P; C07K 71: Alector LLC 72: SCHWABE, Tina, KURNELLAS, Michael, ROSENTHAL, Arnon, PEJCHAL, Robert, COOPER, Anthony B. 33: US 31: 62/698,007 32: 2018-07-13 54: ANTI-SORTILIN ANTIBODIES AND METHODS OF USE THEREOF 00: -

The present disclosure is generally directed to compositions that include antibodies, e.g., monoclonal, chimeric, affinitymatured, humanized antibodies, antibody fragments, etc., that specifically bind a Sortilin protein, e.g., human Sortilin or mammalian Sortilin, and have improved and/or enhanced functional characteristics, and use of such compositions in preventing, reducing risk, or treating an individual in need thereof.



21: 2023/00650. 22: 2023/01/16. 43: 2024/07/03 51: C07K: G01N

71: EUROIMMUN Medizinische Labordiagnostika AG, Charité - Universitätsmedizin Berlin 72: STEINHAGEN, Katja, MESSING, Claudia, LATTWEIN, Erik, STIBA, Konstanze, LINDHORST, Fabian, NEUGEBAUER, Eva, MÜLLER, Marcel, CORMAN, Victor

#### 33: EP(DE) 31: 20158348.1 32: 2020-02-19 54: METHODS AND REAGENTS FOR DIAGNOSIS OF SARS-COV-2 INFECTION 00: -

The present invention relates to a method for diagnosing a SARS-CoV-2 infection comprising the step of detecting the presence or absence of an antibody to SEQ ID NO: 1, preferably IgA class antibody, in a sample from a subject, a method for the differential diagnosis of a coronavirus infection, a use of an antibody to SEQ ID NO: 1, preferably IgA class antibody for diagnosing a SARS-CoV-2 infection or for the differential diagnosis of a coronavirus infection, preferably for distinguishing between a SARS- CoV-2, MERS and NL63, 229E, OC43 and HKU1 infection, and a kit comprising a polypeptide comprising SEQ ID NO: 1 or a variant thereof, preferably coated to a diagnostically useful carrier and one or more, preferably all reagents from the group comprising an antibody to SEQ ID NO: 1, a washing buffer, a means for detecting the presence of an antibody, preferably IgA class antibody, preferably a secondary antibody binding specifically to IgA class antibodies, preferably comprising a detectable label, and a dilution buffer.

- 21: 2023/00871. 22: 2023/01/19. 43: 2024/07/04
- 51: F04D
- 71: Weir Slurry Group, Inc.

72: ASADULLAH, Mohammed, BARTON, Matthew 33: US 31: 63/066,999 32: 2020-08-18

#### 54: COMPOSITE METAL CENTRIFUGAL SLURRY PUMP IMPELLER

A composite metal centrifugal slurry pump impeller including a back shroud with opposed inner and outer faces with an outer peripheral edge and a central axis, a plurality of pumping vanes extending away from the inner main face of the back shroud, the pumping vanes being disposed in spaced apart relation, each pumping vane including opposed main side faces, a leading edge in the region of the central axis and a trailing edge in the region of the outer peripheral edge of the back shroud with a passageway between adjacent pumping vanes, wherein one or more cavities are located in the back shroud in the region of at least one of the passageways and wherein a wear resistant composition is bonded at least partially within the one or more cavities.



21: 2023/00924. 22: 2023/01/20. 43: 2024/06/25 51: A61K; A61P; C07D 71: AstraZeneca AB 72: PACKER, Martin John, DEGORCE, Sebastien Louis, JOHANNES, Jeffrey Wallace, HANDE, Sudhir Mahadeo, GHOSH, Avipsa, ZHENG, Xiaolan 33: US 31: 63/044,095 32: 2020-06-25 54: QUINOXALINE DERIVATIVES AS ANTI-CANCER DRUGS 00: -

The present invention relates to azaquinolone compounds of Formula (I), and their use in medicine.



21: 2023/01008. 22: 2023/01/24. 43: 2024/07/12 51: H04N

71: Huawei Technologies Co., Ltd.

72: SOLOVYEV, Timofey Mikhailovich, IKONIN, Sergey Yurievich, CHERNYAK, Roman Igorevich, KARABUTOV, Alexander Alexandrovich, ALSHINA, Elena Alexandrovna, CHEN, Huanbang 33: US 31: 62/836,072 32: 2019-04-19 54: METHOD AND APPARATUS FOR DERIVING AN INTERPOLATION FILTER INDEX FOR A CURRENT BLOCK

00: -

The present disclosure relates to video encoding and decoding, and in particular, a method for inter prediction for a block in a frame of a video signal includes: constructing a history-based motion information candidate list, wherein the list is an ordered list comprising N history-based motion information candidates Hk containing motion information of N preceding blocks preceding the block, wherein each history-based motion information candidate comprises elements: one or more motion vectors (MVs), one or more reference picture indices corresponding to the MVs, and an interpolation filter index; adding one or more historybased motion information candidates from the history-based motion information candidate list into a motion information candidate list for the block; and deriving motion information for the block based on the motion information candidate list. Thus the inheritance of the half-pixel interpolation filter index may be achieved when the history-based motion information candidate list is used, thus appropriative interpolation filter is selected instead of the default one that in turn improves the quality of the prediction signal and the coding efficiency.



#### 21: 2023/01097. 22: 2023/01/26. 43: 2024/07/12 51: A61K; A61M

71: Poly-Med, Inc.

72: TAYLOR, Michael Scott, GAERKE, Brian, GRAVETT, David, SOLIANI, Anna Paola, GARCIA, Kyle

33: US 31: 62/934,090 32: 2019-11-12 54: CONTRACEPTIVE MEDICAL DEVICES 00: -

Disclosed herein are contraceptive medical devices that include at least a polymeric ring, a porous barrier material and an injection molding guide, where the guide may be symmetrical and/or have one or a plurality of planar surfaces, where the device may optionally administer at least one active agent.



21: 2023/01138. 22: 2023/01/27. 43: 2024/07/12 51: H02M 71: ZTE CORPORATION 72: ZHOU, Jianping, WANG, Qia, LIU, Mingming, LIN, Guoxian, E, Ben, CUI, Yulong 33: CN 31: 202010605231.0 32: 2020-06-29 54: BIDIRECTIONAL DC CONVERTER, CONTROL METHOD THEREFOR, AND CONTROL MODULE THEREOF, AND STORAGE MEDIUM 00: -

A control method for a bidirectional DC converter, a control module thereof, a DC converter, and a computer readable storage medium. The control method comprises: determining a working mode of a bidirectional DC converter according to an input voltage and an output voltage (S110); respectively determining a duty cycle of a drive signal of a first switch tube, a duty cycle of a drive signal of a second switch tube, a duty cycle of a drive signal of a third switch tube, and a duty cycle of a drive signal of a fourth switch tube according to the working mode of the bidirectional DC converter (S120); and providing the drive signal to a gate of the first switch tube according to the determined duty cycle of the drive signal of the first switch tube, providing the drive signal to a gate of the second switch tube according to the determined duty cycle of the drive signal of the second switch tube, providing the drive signal to a gate of the third switch tube according to the determined duty cycle of the drive signal of the third switch tube, and providing the drive signal to a gate of the fourth switch tube according to the determined duty cycle of the drive signal of the fourth switch tube (S130).



#### 21: 2023/01146. 22: 2023/01/27. 43: 2024/07/12 51: G06F; H04L 71: ZTE CORPORATION 72: LUO, Sheng 33: CN 31: 202010614301.9 32: 2020-06-30 54: NETWORK PACKET-BASED REMOTE

MEMORY ACCESS METHOD AND APPARATUS, AND DEVICE AND MEDIUM 00: -

A network packet-based remote memory access method and apparatus, and a device and a medium, relating to the technical field of communications. The key point of the technical solution is to: configure only a mapping table between MAC header information and destination addresses of data, and then obtain the MAC header information corresponding to a data destination address; packaging the data destination address and the MAC header information corresponding thereto, and data information, and then sending the packet to a receiving apparatus; and after receiving the packet, the receiving apparatus outputting the data information to the data destination address.



#### 21: 2023/01367. 22: 2023/02/02. 43: 2024/07/12 51: H02M; H02P

71: OHB Digital Connect GmbH, Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. 72: JOST, Matthias, DUBOIS-DIT-BONCLAUDE, Pierre, GOTTA, Jens, LEINZ, Christian, KASEMANN, Christoph, WIECHING, Gundolf

#### 54: AVOIDING ELECTROMAGNETIC INTERFERENCE (EMI) IN ELECTRICAL EQUIPMENT AND DRIVE SYSTEMS, E.G. USED IN RADIO ASTRONOMY 00: -

The invention relates to a drive system for sensitive devices, in particular for radio astronomical devices, the drive system comprising an electric motor, a converter configured to supply a drive power to the electric motor and to control a rotational speed and/or rotational position of the electric motor, a power supply line for providing the electric motor with a drive power, and a signal line for providing the converter with a signal indicating a measured rotational speed and/or rotational position of the electric motor, wherein the drive system further comprises a shaft grounding element for grounding a drive shaft of the electric motor and wherein at least one of the power supply line and the signal line further comprises a line filter unit for filtering electromagnetic interference (EMI) signals.



21: 2023/01528. 22: 2023/02/07. 43: 2024/07/12 51: C10L

71: Tshwane University of Technology 72: MOLELEKWA, Gomotsegang Fred 33: ZA 31: 2021/10758 32: 2021-12-22

54: BRIQUETTE

#### 00: -

The invention relates to a briquette comprising a mixture of a briquette material with a binder material, wherein the briquette material comprising particulate biomass material and raw material from a plant belonging to the family Asteraceae. The invention extends to the briquette material and a method of producing the briquette.



21: 2023/01627. 22: 2023/02/09. 43: 2024/07/12 51: A01G

71: BREMNER, Colin Derek

72: BREMNER, Colin Derek

33: ZA 31: 2021/08792 32: 2021-11-09 54: A CONTAINER FOR AN/A AQUAPONIC/HYDROPONIC SYSTEM, A DRAINAGE ARRANGEMENT, AN/A AQUAPONIC/HYDROPONIC SYSTEM, AND A METHOD OF DRAINING FLUID FROM AN/A AQUAPONIC/HYDROPONIC SYSTEM 00: -

This invention relates to a container for an/a aquaponic/hydroponic system, a drainage arrangement, particularly for an aquaponic/hydroponic system, an/a aquaponic/hydroponic system, a method of draining fluid from an/a aquaponic/hydroponic system, and a method of installing an/a aquaponic/hydroponic system substantially as described herein.



21: 2023/01639. 22: 2023/02/09. 43: 2024/07/29 51: B60K

71: AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP, SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD. 72: ZHANG, JIANPING, HUANG, CHUNHUA 33: CN 31: 202010794648.6 32: 2020-08-10 54: LOCKING MECHANISM, BATTERY BRACKET, ELECTRIC VEHICLE, AND METHOD FOR LOCKING AND UNLOCKING BATTERY PACK

#### 00: -

Disclosed are a locking mechanism, a battery bracket, an electric vehicle, and a method for locking and unlocking a battery pack. The locking mechanism comprises a lock base and a lock tongue; the lock tongue is rotatably mounted on the lock base around a rotary shaft; the lock base is provided with an accommodating cavity; the lock tongue is rotated so that a lock shaft located within the accommodating cavity is in a locked state and an unlocked state. When the lock shaft is in the locked state, the shaft center of the rotary shaft of the lock tongue is higher than the shaft center of the lock shaft. When the lock shaft is in the locked state, the lock shaft is locked in the accommodating cavity by

the lock tongue. When the lock tongue rotates upward, the lock shaft is converted into the unlocked state and may be removed from the accommodating cavity, and the operation is relatively simple. As the shaft center of the rotary shaft of the lock tongue in the locked state is higher than the shaft center of the lock shaft, thus when the lock shaft moves in the accommodating cavity, the lock tongue may be driven to rotate downward, preventing the lock tongue from rotating upward and causing the lock shaft to convert into the unlocked state, and improving the reliability of fixing a battery pack.



- 21: 2023/01731. 22: 2023/02/13. 43: 2024/07/12 51: C12N
- 71: MeiraGTx UK II Limited

72: BOYNE, Alex R., DANOS, Olivier F., VOLLES, Michael J., GUO, Xuecui
33: US 31: 62/110,919 32: 2015-02-02
54: REGULATION OF GENE EXPRESSION BY APTAMER-MEDIATED MODULATION OF

#### ALTERNATIVE SPLICING

00: -

The invention provides a platform and methods of using the platform for the regulation of the expression of a target gene using exposure to an aptamer ligand (for example, a small molecule). The platform features a polynucleotide gene regulation cassette that is placed in the target gene and includes a synthetic riboswitch positioned in the context of a 5' intron-alternative exon-3' intron. The riboswitch comprises an effector region and a sensor region (e.g., an aptamer that binds a small molecule ligand) such that the alternative exon is spliced into the target gene mRNA when the ligand is not present thereby preventing expression of the target gene. When the ligand is present, the alternative exon is not spliced into the target gene mRNA thereby providing expression of the target gene.



21: 2023/01732. 22: 2023/02/13. 43: 2024/07/12 51: C12N

71: MeiraGTx UK II Limited

72: BOYNE, Alex R., DANOS, Olivier F., VOLLES, Michael J., GUO, Xuecui

33: US 31: 62/110,919 32: 2015-02-02 54: REGULATION OF GENE EXPRESSION BY APTAMER-MEDIATED MODULATION OF ALTERNATIVE SPLICING 00: -

The invention provides a platform and methods of using the platform for the regulation of the expression of a target gene using exposure to an aptamer ligand (for example, a small molecule). The platform features a polynucleotide gene regulation cassette that is placed in the target gene and includes a synthetic riboswitch positioned in the context of a 5' intron-alternative exon-3' intron. The riboswitch comprises an effector region and a sensor region (e.g., an aptamer that binds a small molecule ligand) such that the alternative exon is spliced into the target gene mRNA when the ligand is not present thereby preventing expression of the target gene. When the ligand is present, the alternative exon is not spliced into the target gene mRNA thereby providing expression of the target gene.



21: 2023/01733. 22: 2023/02/13. 43: 2024/07/12 51: G06Q

51. G06Q

71: Gruvtec (Pty) Ltd

72: TSHETLO, Katlego Tsholofelo

#### 33: ZA 31: 2021/03270 32: 2021-11-14 54: PATRON MANAGEMENT SYSTEM AND METHOD THEREOF

00: -

The invention relates to a patron management method including: pairing, by means of at least one processor, a table that is associated with a waitron associated with an entertainment and/or eatery establishment, with a first patron wishing to occupy the table; collecting a request, by means of the at least one processor, to pair at least a second patron to the table occupied by the first patron; and collecting, by means of the at least one processor, from a device associated with at least one of the first patron and waitron associated with the table, an acceptance or rejection of the request from the second patron to join the table occupied by the first patron. The invention extends to a system and a computer-readable device containing suitable instructions for performing the method of the invention.



21: 2023/01801. 22: 2023/02/14. 43: 2024/07/08

51: A61K; A61P; C07D

71: Disarm Therapeutics, Inc.

72: BOSANAC, Todd, BREARLEY, Andrew Simon, DEVRAJ, Rajesh, HUGHES, Robert Owen, JARJES-PIKE, Richard Andrew, PARROTT, Shelley Anne

33: US 31: 63/069,408 32: 2020-08-24 54: INHIBITORS OF SARM1 00: -

The present disclosure provides compounds and methods useful for inhibiting SARM1 and/or treating and/or preventing axonal degeneration.

21: 2023/01873. 22: 2023/02/15. 43: 2024/07/15 51: C07D; A61P 71: RICHTER GEDEON NYRT. 72: BORZA, István, ÉLES, János, ROMÁN, Viktor, PETRÓ, József Levente, GEGÖ, Csaba Lehel, BÉNYEI, Gyula Attila 33: HU 31: P2000254 32: 2020-08-05 54: PHARMACOLOGICALLY ACTIVE HETEROCYCLIC-SUBSTITUTED PYRAZOLO[1,5-A]PYRIMIDINE DERIVATIVES 00: -

The invention relates to new pyrazolo[1,5a]pyrimidine derivatives of formula (I) or pharmaceutically acceptable salts, biologically active metabolites, pro-drugs, racemates, enantiomers, diastereomers, solvates and hydrates thereof that serve as GABAB receptor positive allosteric modulators. The invention also relates to the process for producing such compounds and key intermediates used in the process. The invention further relates to pharmaceutical compositions comprising such compounds optionally in combination with two or more different therapeutic agents and the use of such compounds in methods for treating diseases and conditions mediated and modulated by the GABAB receptor positive allosteric mechanism. The invention also provides a method for manufacture of medicaments useful in the treatment of such disorders.



21: 2023/01997. 22: 2023/02/17. 43: 2024/07/12 51: B31B; B65B

71: Sonoco Development, Inc.

72: HATJE, Dirk, GROSS, Danny 33: US 31: 63/071,069 32: 2020-08-27 54: SYSTEMS AND METHODS FOR THE APPLICATION AND SEALING OF END CLOSURES ON CONTAINERS

00: -

The invention is directed to a system (100) and method for sealing a closure to a container comprising a die assembly (300), a mandrel assembly (200), and a gas evacuation assembly (400), The mandrel assembly comprises an outer mandrel (210) and an inner mandrel (220). The outer mandrel is configured to vertically translate and constrain a closure in position. The gas evacuation assembly, which comprises at least one hollow channel (430) within the die and one or more channel openings (440) into the interior of the die, suctions gas from the interior of an aligned container when the closure is constrained in position. The inner mandrel translates vertically to insert the closure into the container and a sealing member (40) seals the closure in place.



21: 2023/01998. 22: 2023/02/17. 43: 2024/07/08 51: B29C; B31B; B65B; B65D 71: Sonoco Development, Inc. 72: HATJE, Dirk, GRÄF, Daniel Christoph 33: US 31: 63/071,076 32: 2020-08-27 54: SYSTEMS AND METHODS FOR THE APPLICATION AND SEALING OF END CLOSURES ON CONTAINERS

00: -

The invention is directed to a system and method for hermetically sealing a closure to a container comprising a die assembly and a mandrel assembly. The mandrel assembly comprises an outer mandrel, an inner mandrel, and an ejector disposed within an inner circumference of the inner mandrel. At least the outer mandrel is configured to translate a first distance in a first time period, the inner mandrel and the ejector are configured to translate a second distance in a second time period, the inner mandrel is configured to retract a third distance in a third time period, and the ejector is configured to retract the third distance in a fourth time period.



21: 2023/01999. 22: 2023/02/17. 43: 2024/07/12 51: B65D

- 71: Sonoco Development, Inc.
- 72: HATJE, Dirk, SINS, Veronique

33: US 31: 63/071,019 32: 2020-08-27 54: CONTAINER ASSEMBLIES WITH PAPER-BASED END CLOSURES

00: -

The present disclosure is directed to recyclable, composite container assemblies with improved characteristics resulting from a combination of raw materials, structural design, systems, and methods for sealing a paper-based closure (61) to a paperbased container body (60). The container assemblies demonstrate superior performance and seal properties, such as very low oxygen transmission rates and high resistance to bulging and/or damage due to high pressure differentials. The disclosed container assemblies, manufactured at high speeds, have been optimized by increasing the shelf-life of foodproducts stored therein, while minimizing any non-paper materials such that the container assemblies qualify as recyclable monomaterial.



- 21: 2023/02000. 22: 2023/02/17. 43: 2024/07/12
- 51: C08F; C08G; C09D

71: Auriga Polymers Inc.

72: AWASTHI, Yashwant, KUSHWAHA, Durgesh Chand, OSORNIO, Miguel Angel, KOWALSKE, Michael

#### 33: US 31: 63/068,200 32: 2020-08-20 54: PROCESS AND SYSTEM TO UTILIZE WASTE POLYESTER IN A CONTINUOUS POLYESTER POLYMERIZATION PROCESS 00: -

A method for manufacturing polyester polymer containing waste polyester in a continuous polymerization unit that includes: a) providing an intermediate prepolymer stream from the continuous polymerization unit and diverting a portion of the intermediate polymer stream to a centrifugal mixer; b) adding waste polyester to said centrifugal mixer to obtain a homogenous melt stream, and c) combining the homogenous melt stream with the remaining portion of the intermediate polymer stream forming an outlet stream, wherein the method is characterized in that the waste polyester in step b) is not heated or melted.



21: 2023/02073. 22: 2023/02/20. 43: 2024/07/16 51: H04M; H04W

#### 71: STARLOGIK IP LLC 72: KAHN, Ari 33: US 31: 16/938,236 32: 2020-07-24 33: US 31: 16/997,418 32: 2020-08-19 54: SYSTEMS AND METHODS FOR SWITCHING ZERO CHARGE CALLERS 00: -

Asynchronous and/or synchronous zero charge telephony protocol systems and methods may include an asynchronous signaling switch and/or a call duration time quota from a synchronous charging onset to place and complete a call. A first device call request is received with a second device mobile address. The asynchronous systems include instructions to automatically modify the mobile address with a routing prefix when the first device has insufficient balance or independent of balance, route to the asynchronous signaling switch based on an associated modified address trunk path, revert the modified call signal at the asynchronous signaling switch to the call signal, and deliver and automatically disconnect the call immediately when the call is completed. The synchronous systems include instructions to automatically set the call duration time quota upon insufficient balance, and deliver and automatically disconnect the call from the second user mobile device when the call is completed and the call duration time quota is exceeded.

The present invention relates to an apparatus (10) for roasting coffee beans comprising : - a housing (4), - a roasting chamber (1) presenting a bottom opening (11) and a top opening (12), - a smoke and particles collector (6) configured to collect smoke and particles from the top opening (12) of the roasting chamber, - the roasting chamber (1) being removably mounted to the housing (4), the bottom opening (11) of the roasting chamber cooperating with a hot air outlet hole (41) of the housing and the top opening (12) of the roasting chamber cooperating with the smoke and particles collector (6) when the roasting chamber is mounted to the housing, - a chamber locking assembly (5) for locking the roasting chamber to the housing in a removable manner, wherein said chamber locking assembly (5) comprises :. a bottom device (51) for connecting the bottom opening (11) of the chamber to the hot air outlet hole (41) of the housing, said bottom device being configured to receive the bottom (1a) of the chamber and to hold the chamber, a top fastening device (52) for connecting the top opening (12) of the chamber to the smoke and particles collector (6).



21: 2023/02266. 22: 2023/02/22. 43: 2024/07/03 51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)



21: 2023/02172. 22: 2023/02/21. 43: 2024/07/05 51: A23N 71: Société des Produits Nestlé S.A. 72: CECCAROLI, Stefano, MARTIN, Vincent, BRÄNDLE, Manuel, NIEDERMANN, Christof, RICKLIN, Adrian 33: EP(CH) 31: 20188069.7 32: 2020-07-28

54: ROASTING APPARATUS

00: -

72: AXNÄS, Johan, HARRISON, Robert, Mark, SU, Ling, LIN, Zhipeng, ASTELY, David

#### 33: CN 31: PCT/CN2020/106760 32: 2020-08-04 54: COVERAGE ENHANCEMENT OF MSG3 AND MSGA TRANSMISSIONS ON PHYSICAL UPLINK SHARED CHANNEL

#### 00: -

A communication device operating in a communications network can determine to transmit information using repetition to a network node operating in the communications network during a random access, RA, procedure. The communication device can further determine a subset of preambles based on determining to transmit the information using repetition. Responsive to determining the subset of preambles, the communication device can determine a preamble of the subset of preambles to transmit to the network node to indicate a type of the repetition. The communication device can further transmit the preamble to the network node. The communication device can further transmit the information using the type of repetition to the network node.



21: 2023/02289. 22: 2023/02/22. 43: 2024/07/04 51: B27N; B29B; B29C; C08G 71: Plantics Holding B.V. 72: ZIEVERINK, Martinus Mathilda Pieter, HOLTHUIS, Beer, BAKKER, Wridzer Jan Willem 33: EP(NL) 31: 20192605.2 32: 2020-08-25

#### 54: PROCESS FOR MANUFACTURING A SHAPED OBJECT THROUGH FILAMENT WINDING

00: -

The invention pertains to a process for

manufacturing a shaped object through a winding process comprising the steps of - winding resincontaining fiber under tension to form a shaped fibrous object, the resin comprising at least 50 wt.% of polyester derived from an aliphatic polyol with 2-15 carbon atoms and an aliphatic polycarboxylic acid with 3 to 15 carbon atoms, calculated on the polymer constituents of the resin, - subjecting the shaped fibrous object to a curing step. In one embodiment, the resin-containing fibers are provided through a process comprising the steps of - contacting fiber with a liquid resin composition, the resin composition comprising polyester derived from an aliphatic polyol with 2-15 carbon atoms and an aliphatic polycarboxylic acid with 3 to 15 carbon atoms, to obtain resin-containing fibers, - subjecting the resincontaining fibers to a drying step, the drying step being carried out until the resin-containing fibers are tacky and the resin-containing fiber has a diluent content of at most 25 wt.%, calculated on the weight of resin composition in the resin-containing fiber. Tacky fibers obtainable by this intermediate process are also claimed, as is the shaped fibrous object that can be obtained by the process according to the invention.



- 21: 2023/02801. 22: 2023/02/27. 43: 2024/07/12 51: B66F
- 71: MACHINERY CONTRACTORS (PTY) LTD.

72: LESTER, Gordon Steven

- 33: ZA 31: 2021/09607 32: 2021-11-26
- 54: TRACK HANDLING APPARATUS

The invention relates to a track handling apparatus for handling a track such as a bulldozer track. The track handling apparatus comprises a support structure; an arm arrangement extending from the support structure; and a coupling arrangement fitted to the arm arrangement, the coupling arrangement being configured to be releasably coupled to a portion of the track, in particular a master link of the track, and displaceable between a rest configuration

and a second configuration for either rolling or unrolling the track coupled thereto.



21: 2023/03090. 22: 2023/02/28. 43: 2024/07/12 51: H02K

71: Tau Motors, Inc.

72: RUBIN, Matthew J., PENNINGTON III, Walter Wesley, STEVENSON, Gregory Gordon, AMBRECHT, Adam Daniel, DOS SANTOS Jr., Euzeli Cipriano 33: US 31: 62/715,386 32: 2018-08-07 54: ELECTRIC MOTORS

#### 00: -

An electric motor has a stator defining multiple stator poles with associated electrical windings, and a rotor having multiple rotor poles. The rotor has flux barriers between adjacent rotor poles, the flux barriers each having a material with an electrical conductivity higher than the rotor pole material. The flux barriers are electrically isolated from one another external to the ferromagnetic material. Eddy currents are induced in the flux barrier to cause destructive interference of an impending magnetic field, such that the flux barrier effectively acts to inhibit magnetic flux during motor operation, which in some cases will result in a repulsive force that will act to increase an induced motive force on the rotor poles.



- 21: 2023/03091. 22: 2023/02/28. 43: 2024/07/12 51: H02K
- 71: Tau Motors. Inc.

72: RUBIN, Matthew J., PENNINGTON III, Walter Wesley, STEVENSON, Gregory Gordon, AMBRECHT, Adam Daniel, DOS SANTOS Jr., Euzeli Cipriano 33: US 31: 62/715,386 32: 2018-08-07

#### 54: ELECTRIC MOTORS 00: -

An electric motor has a stator defining multiple stator poles with associated electrical windings, and a rotor having multiple rotor poles. The rotor has flux barriers between adjacent rotor poles, the flux barriers each having a material with an electrical conductivity higher than the rotor pole material. The flux barriers are electrically isolated from one another external to the ferromagnetic material. Eddy currents are induced in the flux barrier to cause destructive interference of an impending magnetic field, such that the flux barrier effectively acts to inhibit magnetic flux during motor operation, which in some cases will result in a repulsive force that will act to increase an induced motive force on the rotor poles.



21: 2023/03253. 22: 2023/03/01. 43: 2024/08/12 51: A61K; C07K; A61P 71: VALO THERAPEUTICS OY 72: YLÖSMÄKI, Erkko, FUSCIELLO, Manlio, MARTINS, Beatriz, FEOLA, Sara, CHIARO, Jacopo, CERULLO, Vincenzo 33: GB 31: 2013824.4 32: 2020-09-03 33: GB 31: 2102211.6 32: 2021-02-17 33: GB 31: 2109893.4 32: 2021-07-08 54: MODIFIED MYCOBACTERIUM BOVIS VACCINES

#### 00: -

The invention concerns a modified bacteria; a pharmaceutical composition comprising same; and a method of preventing or treating disease particularly, but not exclusively, cancer or an infectious disease using same.



- 21: 2023/03354. 22: 2023/03/06. 43: 2024/07/12 51: A61K; A61P; C07K; C12N
- 71: Beijing Solobio Genetechnology Co., Ltd.
- 72: LI, Zhong, YU, Maorong

33: PCT/CN 31: 2020/107666 32: 2020-08-07 54: ANTIBODIES SPECIFICALLY RECOGNIZING PSEUDOMONAS PSL AND USES THEREOF 00: -

Provided herein are antibodies including antigenbinding fragments thereof that specifically recognizing Pseudomonas PsI. Also provided are methods of making and using these antibodies.



21: 2023/03412. 22: 2023/03/08. 43: 2024/07/12 51: A61K; C07K; G01N

71: New York University, PureTech Health, LLC 72: KOIDE, Shohei, MILLER, George, KOIDE, Akiko, CHEN, Linxiao, FILIPOVIC, Aleksandra, ELENKO, Eric, BOLEN, Joseph

33: US 31: 62/578,111 32: 2017-10-27

# 54: ANTI-GALECTIN-9 ANTIBODIES AND USES THEREOF

#### 00: -

Disclosed herein are anti-Galectin-9 antibodies and methods of using such for inhibiting a signaling pathway mediated by Galectin-9 or eliminating pathologic cells expressing Galectin-9. Such anti-Galectin-9 antibodies may also be used to diagnose and/or to treat diseases associated with Galectin-9, such as autoimmune diseases and solid tumors.

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21: 2023/03417. 22: 2023/03/08. 43: 2024/07/03
51: F16B
71: HI-SHEAR CORPORATION, LISI AEROSPACE
72: PHAM, Haikhanh, Dao, BOURGES, Laurent,
STEPHAN, Johan
33: US 31: 63/064,892 32: 2020-08-12
54: METHODS FOR COATING AND
COMPONENTS HAVING COATINGS FOR
ELECTRICAL CONDUCTIVITY
00: -
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A metal component (112) made of a base metal and a coating system (500) thereon is characterized in that the coating system comprises a conductive layer (502) on the base metal and a resin-based layer (504) including conductive pigments (508) on the conductive layer. The conductive pigments (508) form electrically conductive 3D-networks in the resin, with the networks being randomly distributed in the resin. Aerospace fasteners having a coating system of a nickel flash on the base metal, and a phenolic resin-based coating including nickel fibers on the nickel flash, are also provided. Further, a method for coating a metal component is disclosed. The coating system (500) may be applied to metal components, including aerospace fasteners such as pins, bolts, collars, nuts and nut plates, and washers, as well as studs, latches, helicopter rotors, and landing gear structures.



21: 2023/03441. 22: 2023/03/09. 43: 2024/07/12 51: A01N

71: McLaughlin Gormley King Company

72: SUNDQUIST, Donald L., SURANYI, Robert A. 33: US 31: 62/357,887 32: 2016-07-01

#### 54: MIXTURES OF SABADILLA ALKALOIDS AND PYRETHRUM AND USES THEREOF 00: -

The present invention is directed to pesticidal mixtures comprising sabadilla alkaloids and pyrethrum esters and methods of controlling pests including insects and mites by application of pesticidal mixtures comprising sabadilla alkaloids and pyrethrum esters.

#### 21: 2023/03655. 22: 2023/03/16. 43: 2024/07/12 51: A61K; A61P; C07D 71: Pfizer Inc. 72: CLARK, Wesley Dewitt, DEAL, Judith Gail, SAMAS, Brian Matthew 33: US 31: 63/078,636 32: 2020-09-15 **54: SOLID FORMS OF A CDK4 INHIBITOR** 00: -

This invention relates to crystalline and amorphous forms of 1,5-anhydro-3-{(5-chloro-4-[4-fluoro-2-(2-hydroxypropan-2-yl)-1/t-benzimidazol-6-yl]pyrimidin-2-yl]amino)-2,3-dideoxy-D-threo-pentitol, to pharmaceutical compositions comprising such solid forms, and to use of such solid forms and pharmaceutical compositions for the treatment of cancer.



21: 2023/03699. 22: 2023/03/20. 43: 2024/07/12 51: A61K; A61P; C07D 71: Eli Lilly and Company 72: ABURUB, Aktham, COATES, David Andrew, FRANK, Scott Alan, KERR, Mark Steven, ROTHHAAR, Roger Ryan, VAID, Radhe Krishan 33: US 31: 62/871,965 32: 2019-07-09 54: PROCESSES AND INTERMEDIATE FOR THE LARGE-SCALE PREPARATION OF 2.4.6-TRIFLUORO-N-[6-(1-METHYL-PIPERIDINE-4-CARBONYL)-PYRIDIN-2-YL]-BENZAMIDE **HEMISUCCINATE, AND PREPARATION OF 2,4,6-**TRIFLUORO-N-[6-(1-METHYL-PIPERIDINE-4-CARBONYL)-PYRIDIN-2-YL]-BENZAMIDE ACETATE 00: -

The embodiments of present invention provide processes and an intermediate for the large-scale preparation of 2,4,6-trifluoro-N-[6-(1methylpiperidine-4-carbonyl)-2-pyridyl]benzamide hemisuccinate, and formulations and product forms made by these processes. The embodiments of the present invention further provide for the preparation of lasmiditan acetate, 2,4,6-trifluoro-N-[6-(1methylpiperidine-4-carbonyl)-2-pyridyl]benzamide acetate salt, and/or pharmaceutical compositions thereof, and/or uses of lasmiditan acetate and formulations thereof in subcutaneous drug delivery. 21: 2023/03718. 22: 2023/03/20. 43: 2024/07/12 51: C10L

71: Pedrazzini Chimica S.R.L.

72: PEDRAZZINI, Cesare

33: IT 31: 10202000020368 32: 2020-08-24 54: ADDITIVE TO REDUCE PARTICULATE MATTER IN EMISSIONS DERIVING FROM THE COMBUSTION OF DIESEL FUEL AND FUEL OIL AND FUEL COMPOSITION THAT CONTAINS IT 00: -

The present invention relates to an additive for fuels such as diesel fuel and fuel oil, used respectively for diesel engines and boilers of various types,

comprising a metal oxidation catalyst, an organic nitrate and a dispersing agent in suitable ratios, capable of improving combustion efficiency in such a way as to reduce the formation of particulate matter and consumption.

21: 2023/03736. 22: 2023/03/22. 43: 2024/07/12 51: A01N A61L

71: COLLIDION, INC.

72: ALIMI, Hojabr, ESMAEILI, Mohammad 33: US 31: 63/069,808 32: 2020-08-25 54: METHODS AND USES OF PRODUCING COMPOSITIONS STABLY COMPRISING FREE AVAILABLE CHLORINE SPECIES AND PEROXIDES

00: -

The present specification discloses a method of making a composition stably comprising one or more peroxides and one or more free available chlorine species, one or more peroxide for use in the manufacture of a composition stably comprising one or more peroxides and one or more free available chlorine species, as well as formulated compositions using a composition manufactured according to a method or use disclosed herein.

21: 2023/03784. 22: 2023/03/23. 43: 2024/07/12
51: B03B; C22B; H01M
71: Green Li-ion Pte. Ltd.
72: KATAL, Reza
33: US 31: 63/069,488 32: 2020-08-24
54: PROCESS FOR REMOVING IMPURITIES IN THE RECYCLING OF LITHIUM-ION BATTERIES
00: A method of treating a leaching solution derived from a black mass from spent lithium-ion batteries

comprising setting pH of the leaching solution to

about pH 1.2 to 2.5, adding iron powder to induce copper cementation, adding lime after copper cementation, and after adding lime, transiting pH of the leaching solution to about pH 6 to extract calcium fluoride, titanium hydroxide, aluminium hydroxide, iron hydroxide, and iron phosphate. A black mass recycling system comprising an impurity removal reactor configured to receive a sodium hydroxide feed, an iron powder feed, and a lime



- 21: 2023/03863. 22: 2023/03/27. 43: 2024/07/12
- 51: A61K; A61P; C07D

71: endogena therapeutics, inc.

72: STEGER, Matthias, MUELLER, Alex, MARIGO, Mauro

33: US 31: 17/065,795 32: 2020-10-08

54: NEW COMPOUNDS AND THEIR USE AS THERAPEUTICALLY ACTIVE SUBSTANCES IN THE TREATMENT AND/OR PREVENTION OF DISEASES INVOLVING THE RETINAL PIGMENT EPITHELIUM

#### 00: -

feed.



21: 2023/03864. 22: 2023/03/27. 43: 2024/07/12 51: C12Q

71: Givaudan SA

72: ZANCHETTA, Catherine, VILANOVA, David, JARRIN, Cyrille

#### 33: GB 31: 2016237.6 32: 2020-10-13 54: MICROBIOME SIGNATURE FOR THE CHARCATRIZATION OF SKIN TYPES

00: -

The present invention relates to methods of identifying microbial signatures that are predictive of particular skin characteristics, and methods of using the signatures to predict skin characteristics.

Skin parameter	Top bacterial signature for LOW condition (Gini>1.3)	Top bacterial signature for HIGH condition (Gini>1.3)	Accuracy (AUC based)	Sensitivity	Specificity
Sebum	Neisseria Haemophilus Kocuria Paucibacter	Eikenella Cutibacterium	87%	50%	85%
Age (same for Nanopore detected)	Lawsonella Finegoldia	Eikenella Aerococcus Glutamicibacte r	84%	81%	17%
Sensitivity	Cutibacterium Staphylococcus	Corynebacteriu m Kocuria	79%	74%	57%
Dark spots	Kocuria Micrococcus Paracoccus Bergeyella	Xanthomonas Aerococcus Turicella Brevibacterium Paucibacter Eikenella	78%	86%	36%
Hydration	Cutibacterium Pseudomonas Brochothrix Staphylococcus	Snodgrassella Haemophilus Paucibacter Kocuria Brevundibacter ium Bacillus	65%	33%	70%
TEWL	Enhydrobacter Micrococcus Brevundimona s Paracoccus Bacillus	Eikenella Cutibacterium	63%	40%	67%

21: 2023/03870. 22: 2023/03/27. 43: 2024/07/12 51: A23B; A23J; A23L 71: Givaudan SA

# 72: LAURENCON, Lise, BIRTIC, Simona, HEUDRE, Mélanie Marie-Paule Patricia 33: GB 31: 2016984.3 32: 2020-10-26 54: COLOURING COMPOSITION FOR FOOD PRODUCTS 00: -

The present invention relates to the use of an anthocyanin and/or betanin as a colourant in a food product, plant extracts as a source of anthocyanins and/or betanins, compositions comprising the plant extracts and processes using the anthocyanins and/or betanins or compositions described herein.

21: 2023/03943. 22: 2023/03/29. 43: 2024/07/03 51: C07D A61K A61P

71: LG CHEM, LTD.

72: YOON, Seung Hyun, JOO, Hyun Woo, SEO, Bo Kyung, LEE, Eun Jin, JUNG, Jin Young, YOON, Su Young, CHO, Woo Young

#### 33: KR 31: 10-2020-0112843 32: 2020-09-04 54: NOVEL BIARYL DERIVATIVE USEFUL AS DIACYLGLYCEROL ACYLTRANSFERASE 2 INHIBITOR, AND USE THEREOF 00: -

The present invention relates to a biaryl derivative compound, which exhibits the activity of a diacylglycerol acyltransferase 2 (DGAT2) inhibitor and is represented by chemical formula (1), a pharmaceutical composition comprising same as an active ingredient, and a use thereof.

21: 2023/03958. 22: 2023/03/29. 43: 2024/08/14 51: F24S

71: STELLENBOSCH UNIVERSITY

72: SMIT, Willem Jacobus

33: ZA 31: 2020/06085 32: 2020-10-01

### **54: HELIOSTAT CALIBRATION** 00: -

Systems and methods for calibrating a heliostat (104) are disclosed. An imaging device (100) is positioned and oriented so that a calibration target (130) reflected by the heliostat (103) is visible at the imaging device and an image taken. Multiple features of the reflected calibration target in the image are identified and used to determine a centroid of reflection within the image which is then mapped to a corresponding centroid position on the calibration target. A vector  $\overline{t}$  that extends between the centroid position on the calibration target and a known position of the heliostat, as well as a vector  $\overline{s}$  that extends between the known positions of the imaging device and of the heliostat, are determined.

A normal vector  $\overline{n}$  of the heliostat is determined as the vector that bisects  $\overline{s}$  and  $\overline{t}$  and is used to calibrate the heliostat by updating parameters of a heliostat tracking model.



21: 2023/03999. 22: 2023/03/20. 43: 2024/07/31 51: A61M; B65D

71: OROFINO PHARMACEUTICALS GROP SRL 72: OROFINO, Ernesto

#### 33: IT 31: 102020000022168 32: 2020-09-21 54: DEFORMABLE PRE-PACKAGED DEVICE FOR INJECTING A LIQUID 00: -

Deformable pre-packaged device for injecting a liquid The present invention relates to a device (100) for injecting a reconstitutable liquid mixture, comprising a first (40) and a second (30) containment chamber of a first and a second component of the liquid mixture, respectively; first mechanical and fluidic connection means (43,33) between said first (40) and said second (30) containment chambers, as well as second mechanical and fluidic connection means (20) between said second containment chamber (30) and an injection needle (10): wherein: - the first chamber (40) comprises a first upper (41) and lower (42) surface in the shape of a (truncated) cone having the same axis of symmetry (S) and a common base circumference (44), - the first upper (41) and lower (42) surfaces have a common base (44) and opposite extensions forming a non-zero angle ß therebetween: - the second containment chamber (30) comprises a second upper (31) and lower (32) surface in the shape of a (truncated) cone, both having said axis of symmetry (S) and a common base circumference (34), - the second upper (31) and lower (32) surfaces have a common base (34) and opposite extensions forming a non-zero angle a

therebetween; - the first (42) and the second (32) lower surfaces are deformable by compression



21: 2023/04064. 22: 2023/03/31. 43: 2024/07/12 51: A61K; A61P; C07D 71: ImmuneSensor Therapeutics, Inc., The Board of Regents of the University of Texas System 72: QIU, Jian, WEI, Qi, TSCHANTZ, Matt, SHI, Heping, WU, Youtong, TAN, Huiling, SUN, Lijun, CHEN, Chuo, CHEN, Zhijian 33: US 31: 63/074,446 32: 2020-09-03 54: QUINOLINE CGAS ANTAGONIST COMPOUNDS 00: -

The present disclosure provides compounds that are cGAS antagonists, methods of preparation of the compounds, pharmaceutical compositions comprising the compounds, and their use in medical therapy.

#### 21: 2023/04093. 22: 2023/04/03. 43: 2024/07/15 51: A61K: A61P: C07K

71: Eli Lilly and Company

72: DAY, Jonathan Wesley, HEUER, Josef George, MUPPIDI, Avinash, NI, Wei, PANCOOK, James David

#### 33: US 31: 62/827,386 32: 2019-04-01 54: NEUREGULIN-4 COMPOUNDS AND METHODS OF USE 00: -

The present invention relates to neuregulin (NRG) 4 compounds and methods of treatment with NRG4 compounds.

21: 2023/04174. 22: 2023/04/05. 43: 2024/07/02 51: B02C

71: KABUSHIKI KAISHA EARTHTECHNICA

#### 72: KAJITA, NOBUYUKI, KIJIMA, TAKASHI, KOBAYASHI, JUN, YAMAMOTO, KEITA, SAKAMOTO, MORIYUKI, OTSUKI, SATOSHI 33: JP 31: 2020-179210 32: 2020-10-26 54: CRUSHING LOAD CONTROL CIRCUITRY OF CRUSHER AND METHOD OF CONTROLLING CRUSHING LOAD OF CRUSHER 00: -

Crushing load control circuitry of a crusher includes: a load response acquirer that acquires, as an unprocessed load response, a crushing load obtained as a response of a command value that is output with respect to a control target of the crusher; a preprocessor that preprocesses the unprocessed load response to obtain a load response; feedback controlling circuitry that generates a new command value based on a deviation between the load response and a predetermined load target value; and a control parameter adjuster that adjusts a control parameter of the feedback controlling circuitry based on the load response. The preprocessor includes a steady characteristic extraction filter that attenuates crush vibration which is included in the unprocessed load response and is specific to the crusher.



21: 2023/04276. 22: 2023/04/11. 43: 2024/07/02 51: E21D 71: THE TREVOR CHARLES FROST FAMILY TRUST (IT 3642/95) 72: FROST, Trevor, Charles 33: ZA 31: 2022/04039 32: 2022-04-11

#### 54: A MINE PROP

#### 00: -

A mine prop including an elongate member capable of axial compression in a loaded condition, and a plurality of recesses defined in an end region of the elongate member for aiding in predictable compression of the elongate member in the loaded condition, the plurality of recesses including four circumferentially spaced sets of recesses, the recesses in each set increasing in depth towards the end region of the elongate member.



21: 2023/04290. 22: 2023/04/11. 43: 2024/07/02 51: C07K; C12N; A01K; A61K 71: UCB BIOPHARMA SRL 72: DEDEURWAERDERE, STEFANIE MARIE, KRAMER, TAL, SIPEKY, CSILLA, VALLETTE, BRITTANY NICOLE, XU, MEIYU 33: US 31: 63/089,817 32: 2020-10-09 54: NUCLEIC ACID CONSTRUCTS, VIRAL VECTORS AND VIRAL PARTICLES 00: -

The present invention relates to nucleic acid constructs, viral vectors and viral particles comprising a transgene encoding GAT-1; and use of such viral particles for treating diseases mediated by SLC6A1-impairment.

- 21: 2023/04329. 22: 2023/04/12. 43: 2024/07/04
- 51: G06Q; H04L
- 71: Comviva Technologies Limited
- 72: JAIN, Manish, GOYAL, Gaurav
- 33: IN 31: 202211037780 32: 2022-06-30

54: SYSTEM AND METHOD FOR EXECUTING FINANCIAL TRANSACTION

00: -

A system (100) for executing a financial transaction is disclosed. The system (100) includes a receiving module (210) adapted to receive a first input

indicative of selection of at least one digital card associated with a user account in an application (104b) and a second input indicative of a transaction amount. The system (100) includes a generating module (212) adapted to generate via the application (104b), a unique token corresponding to the transaction amount and the digital card wherein the unique token is to be shared with a merchant (112). An approval request is generated for executing the financial transaction. A third input is received in response to the approval request. An executing module (214) adapted to execute the financial transaction based on the third input by deducting the transaction amount from the user account.



54: AUTOMATIC DRILLING HOIST SPEED 00: -

A method (400) includes: determining a mast angle of a drilling implement (402), calculating the optimized hoisting speed for a drilling implement based on the mast angle or calculating the optimized drill rotation speed based on the mast angle (404), and hoisting the drilling implement at the optimized hoisting speed if desired, or rotating the drill at the optimized drill rotation speed if desired (406).



21: 2023/04434. 22: 2023/04/14. 43: 2024/08/14 51: H02S

71: GLOBAL INVENTIONS, Joël GILBERT 72: Joël GILBERT, NONNENMACHER, Bernard 33: FR 31: FR2008557 32: 2020-08-19 54: DEVICE AND METHOD FOR DETERMINING AND USING A SURPLUS OF AVAILABLE ELECTRICAL POWER GENERATED BY A SOLAR PHOTOVOLTAIC GENERATOR 00: -

The invention relates to a device (S) for managing a surplus (P3) of photovoltaic power available at the terminals of a photovoltaic generator (DE) provided with photovoltaic panels (PV) capable of powering fixed power electrical appliances (AF) and variable power electrical appliances (AV), characterised in that it comprises: - a photoelectric control sensor (PE) capable of measuring at each time t the solar light intensity received by the photovoltaic panels (PV) and deducing the maximum potential electric power (PI) therefrom; - a means (MP3) for determining a surplus of available power (P3), as compared to said time t, between the value of the maximum potential electric power (PI) and the value of the electric power (P2) actually consumed by the electrical appliances (AF; AV); - and a means (MPG) for managing the surplus (P3) of available power, the means being configured to redirect and distribute the surplus (P3) of available power between the electrical appliances (AF, AV).



21: 2023/04469. 22: 2023/04/17. 43: 2024/08/08 51: E04B 71: VICTAULIC COMPANY 72: SUN, Cong 33: US 31: 63/109.930 32: 2020-11-05

#### 54: WALL MOUNTABLE BRACKET ASSEMBLY 00: -

A bracket assembly isolates shear forces from fasteners to realize the full tensile load capability of the fasteners. The fasteners extend from a base plate and are embedded within a structure such as a poured concrete wall. Receptacles defined by the base plate receive bosses which extend from a mounting plate which overlies the base plate. The fasteners also retain the mounting plate to the base plate. Shear forces applied in the plane of the mounting plate are reacted between the bosses and the receptacles, the fasteners being isolated from the shear forces using oversized holes in the mounting plate to ensure that the fasteners experience primarily tensile loads.



21: 2023/04536. 22: 2023/04/19. 43: 2024/07/03 51: A61K A61P 71: HANMI PHARM. CO., LTD. 72: KIM, Jin Young, PARK, Cho Rong, KIM, Sang, Yun, KIM, Won, Ki, PARK, Su, Yeon

#### 33: KR 31: 10-2020-0152246 32: 2020-11-13 54: USE OF THERAPEUTIC ENZYME FUSION PROTEIN IN PREVENTING AND TREATING NEUROPATHY ATTRIBUTED TO OR ASSOCIATED WITH FARBRY'S DISEASE 00: -

The present invention relates to a use of a fusion protein of a therapeutic enzyme and an immunoglobulic Fc region in preventing or alleviating neuropathy.



Normal mouse > Vehicle

- Alpha-galactosidase gene knock-out mouse > Vehicle

Alpha-galactosidase gene knock-out mouse > 1.0 mg/kg of Agalsidase beta

Alpha-galactosidase gene knock-out mouse > 1.0 mg/kg of Alpha-galactosidase-Fc fusion protein

Alpha-galactosidase gene knock-out mouse > 2.0 mg/kg of Alpha-galactosidase-Fc fusion protein

#### 21: 2023/04584. 22: 2023/04/20. 43: 2024/07/15 51: G01N: G16H

71: BIOLYTICAL LABORATORIES INC. 72: ZAHARIK, Michelle L, HEYDE, Ron P 33: US 31: 17/026,643 32: 2020-09-21 54: METHODS AND RAPID TEST KITS FACILITATING EPIDEMIOLOGICAL SURVEILLANCE 00: -

A method for facilitating epidemiologic surveillance for a target disease such as Covid-19 includes a step of using an optical identifier such as a barcode or a numerical code to rapidly report de-identified test results to a central database. A rapid test device may be based on a direct flow point-of-care device comprising a porous membrane with at least one recombinant antigen applied thereto and procedural control. The recombinant antigen may comprise an epitope for detecting the target disease marker. The first optical identifier may be applied to the device and facilitate remote communication of the test results without the use of any specialized equipment. The method and kit may also be used for generating data useful for a Covid-19 Passport.



21: 2023/04694. 22: 2023/04/24. 43: 2024/07/01 51: H04N

71: DOLBY LABORATORIES LICENSING CORPORATION

72: YIN, PENG, PU, FANGJUN, LU, TAORAN, CHEN, TAO, HUSAK, WALTER J, MCCARTHY, SEAN THOMAS

33: US 31: 62/691,366 32: 2018-06-28 33: US 31: 62/726,608 32: 2018-09-04 33: US 31: 62/739,402 32: 2018-10-01 33: US 31: 62/772,228 32: 2018-11-28 33: US 31: 62/782,659 32: 2018-12-20 33: US 31: 62/630,385 32: 2018-02-14 33: US 31: 62/792,122 32: 2019-01-14 54: IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION

00: -

Given a sequence of images in a first codeword representation, methods, processes, and systems are presented for image reshaping using rate distortion optimization, wherein reshaping allows the images to be coded in a second codeword representation which allows more efficient compression than using the first codeword representation. Syntax methods for signaling reshaping parameters are also presented.



21: 2023/04696. 22: 2023/04/24. 43: 2024/07/15 51: E04B; E04C; E04D 71: BLACK ROCK CONSTRUCTION (PTY) LTD. 72: ROQUES, Joseph 33: ZA 31: 2021/05531 32: 2022-02-04 54: MOVABLE AND MODULAR HOUSING STRUCTURE 00: -

A movable and modular housing structure is provided, comprising a steel frame arrangement comprising a base frame; a plurality of beams extending upwardly from the base frame to define first and second opposite side frames and first and second opposite end frames; and a roof frame. The housing structure further includes sheeting fitted to the outside of the side, end and roof frames, to define a substantially enclosed housing structure for use. The first end frame is shorter than the second end frame, so that that the roof frame angles downwardly from the second end frame to the first end frame. The base frame and the roof frame each comprise four I-beam connecting members joined together, with the plurality of upwardly extending beams including four square tubing corner support beams at the corners of the steel frame arrangement.



21: 2023/04701. 22: 2023/04/24. 43: 2024/07/01 51: E02F

71: CATERPILLAR GLOBAL MINING LLC 72: CUGATI, SHARATH, KUNIGK, MARTIN,

CESARZ, ARTHUR 33: GB 31: 2017656.6 32: 2020-11-09

54: METHOD FOR ESTIMATING A PAYLOAD OF A HYDRAULIC MINING SHOVEL 00: -

The present invention pertains to a method for estimating a payload of a hydraulic mining shovel (100) comprising an attachment (200) having a

bucket (18) and at least one hydraulic cylinder (12). The method comprising the steps of determining (S10) a current position of the bucket (18), measuring (S20) a cylinder pressure (PBm) and an angular attachment acceleration ( $\alpha$ ), estimating (S30) a dynamic cylinder pressure (PBmd) based on the angular attachment acceleration ( $\alpha$ ), calculating (S40) an estimated static cylinder pressure (PBms) and retrieving (S50) a payload estimation. The present invention also pertains to a hydraulic mining shovel comprising a system being configured to carry out such method.



21: 2023/04704. 22: 2023/04/24. 43: 2024/07/01 51: G06T; E02F

71: CATERPILLAR INC.

72: RAM, SHASTRI, PETRANY, PETER JOSEPH 33: US 31: 17086,117 32: 2020-10-30

#### 54: WEAR AND LOSS DETECTION SYSTEM AND METHOD USING BUCKET-TOOL TEMPLATES 00: -

A wear detection system (110) can be configured to capture a video stream (530) from a camera (128) associated with a work machine (100). The video stream includes a plurality of images associated with a bucket (120) with a plurality of teeth (125) of the work machine. The system can also be configured to segment the plurality of images using a bucket-tool template (510) including a template image of the bucket having a plurality of unworn tools and select an image (540) for wear detection based on the segmenting. The system is also configured to identify the plurality of teeth in the selected image based at least in part on locations (547) of the plurality of unworn tools in the bucket-tool template. The system is also configured to determine a wear level for the plurality of teeth by comparing the plurality of teeth from the selected image with the plurality of unworn tools from the bucket-tool template.



21: 2023/04705. 22: 2023/04/24. 43: 2024/07/01 51: E02F

71: CATERPILLAR INC.

72: PETRANY, PETER JOSEPH, RAM, SHASTRI 33: US 31: 17/086,081 32: 2020-10-30 54: GROUND ENGAGING TOOL WEAR AND LOSS DETECTION SYSTEM AND METHOD 00: -

A wear detection system (110) can be configured to receive a video stream including a plurality of images (520) of a bucket (120) of the work machine (100) from a camera (128) associated with the work machine. The bucket has one or more ground engaging tools (GET) (125). The wear detection system can also be configured to identify a plurality of tool images (620) from the video stream over a period of time. The plurality of tool images depict the GET at a plurality of instances over a period of time. The wear detection system can also be configured to identify a plurality of tool images depict the GET at a plurality of instances over a period of time. The wear detection system can also be configured to determine a plurality of tool pixel counts (635) from the plurality of tool image and determine a wear level for the GET based on the plurality of tool pixel counts.



21: 2023/04720. 22: 2023/04/24. 43: 2024/07/01 51: B01D

71: CATERPILLAR INC.

72: FINN, TIMOTHY S, NASH, JEFFREY P 33: US 31: 17/039,385 32: 2020-09-30 54: FILTRATION DEVICE HAVING A LATCH MECHANISM

00: -

A filtration device may include a filter element and a housing that is configured to receive the filter element. The filter element may include a casing having a first outer surface and a flange connected to the first outer surface. The flange may include a plurality of snap members. A snap member, of the plurality of snap members, may include a fulcrum projecting from the flange and a lever mounted on the fulcrum. The housing may include a shell having a second outer surface and a plurality of ramp members. The plurality of ramp members may be fixedly connected to the second outer surface and may be configured to engage the plurality of snap members of the filter element. A ramp member, of the plurality of ramp members, may include an angled surface that extends from the second outer surface at an acute angle relative to the second outer surface.



21: 2023/04733. 22: 2023/04/24. 43: 2024/07/01 51: B65G

71: SANDVIK ROCK PROCESSING AUSTRALIA PTY LIMITED

72: SCHAEFER, JAN, RAIS, VIKTOR 33: DE 31: 10 2020 124 997.7 32: 2020-09-25 54: METHOD FOR CALCULATING BULK MATERIAL CONVEYING RATES OR BULK MATERIAL LOADS OF A VIBRATORY MACHINE 00: -

: In a method for calculating a bulk material conveying rate or a bulk material load of a vibratory conveyor machine, in which method raw measured data from the vibratory conveyor machine are acquired at at least two times with different load states by at least one acceleration, speed or travel sensor and raw measured data are then processed to give at least one vibration data feature from the list: amplitude, frequency and phase, provision is made to create and to store feature datasets consisting of at least one vibration data feature and to create a regression model on the basis thereof. Based on the created regression model and at least one current feature dataset, the current actual load or bulk material conveying rate of a vibratory conveyor machine is then ascertained and displayed.



21: 2023/04736. 22: 2023/04/24. 43: 2024/07/01 51: A61L

#### 71: HEMOTEQ AG

72: HOFFMANN, MICHAEL, HOFFMANN, ERIKA, MATHAR, GÜNTER

33: EP 31: 20207915.8 32: 2020-11-16 54: COATED MEDICAL PRODUCT 00: -

The invention relates to a suspension for coating medical products, containing at least one tri-O-acylglycerol, at least one taxane in the form of microcrystals, and at least one solvent in which the at least one tri-O-acylglycerol dissolves and the microcrystals of the at least one taxane do not dissolve. The invention further relates to a process for preparing said suspension, a method for coating a medical product with said suspension, and medical products coated with at least one tri-O-acylglycerol and at least one microcrystalline taxane.



21: 2023/04766. 22: 2023/04/25. 43: 2024/07/01 51: A61L 71: HEMOTEQ AG

#### 72: HOFFMANN, MICHAEL, HOFFMANN, ERIKA, MATHAR, GÜNTER 33: EP 31: 20207915.8 32: 2020-11-16 33: EP 31: 21197295.5 32: 2021-09-16 54: COATED MEDICAL PRODUCT 00: -

The invention relates to a suspension for coating medical products, containing at least one tri-O-acylglycerol, at least one limus-type agent in the form of microcrystals, and at least one solvent in which the at least one tri-O-acylglycerol dissolves and the microcrystals of the at least one limus-type agent do not dissolve. The invention further relates to a process for preparing said suspension, a method for coating a medical product with said suspension, and medical products coated with at least one tri-O-acylglycerol and at least one microcrystalline limus-type agent.



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21: 2023/04779. 22: 2023/04/25. 43: 2024/07/02 51: A61K; A61P; C07K

71: Centro de Ingenieria Genetica y Biotecnologia 72: CHINEA SANTIAGO, Glay, MARTÍN DUNN, Alejandro Miguel, GONZÁLEZ ROCHE, Diamilé, LIMONTA FERNÁNDEZ, Miladys, IGLESIAS PÉREZ, Enrique, BEQUET ROMERO, Mónica, SANTANA MILIAN, Héctor, MARQUEZ PERERA, Gabriel J., MUSACCHIO LASA, Alexis, CABRALES RICO, Ania, GUILLEN NIETO, Gerardo Enrique, AYALA ÁVILA, Marta, PIMENTEL VAZQUEZ, Eulogio, ROJAS DORANTES, Gertrudis, HUERTA GALINDO, Vivian

33: CU 31: 2020-0081 32: 2020-11-04 54: CHIMERIC PROTEIN COMPRISING THE RECEPTOR BINDING DOMAIN OF THE CORONAVIRUS SPIKE PROTEIN AND COMPOSITIONS COMPRISING THEREOF 00: -

The present invention provides a chimeric protein that has a modular structure and comprises a receptor binding domain (RBD) from the spike

protein (S) of coronaviruses, a segment able to bind the core antigen from the Hepatitis B Virus (HBcAg), a segment including six consecutive histidine residues (HHHHH), and two spacer segments. In this chimeric protein the aforementioned segments are arranged in a specific order, and the protein is able to form hybrid nanoparticles with HBcAg. The chimeric protein is part of vaccine compositions used for the prevention of coronavirus infections. Therefore, the invention discloses a method for the prevention of coronavirus infections, whereby a vaccine composition comprising said chimeric protein is administered.



21: 2023/04797. 22: 2023/04/26. 43: 2024/08/19 51: G07C; G08B 71: ATTACHE HOLDINGS LLC 72: Alan Wesley DAVIS 33: US 31: 63/147,875 32: 2021-02-10 54: PERSONAL PROTECTION EQUIPMENT NETWORK (PPE-N) 00: -

The present invention provides a PPE-N system that comprises PPE components, smart tags, smart tag readers configured to detect within working ranges and trigger audio-visual alarms and send a warning to a predetermined person, and a hub that compares signals from the smart tags to help assess the PPE-N component health. The present invention further comprises waypoints to verify that the PPE component conforms to requirements of the PPE component and determine whether the PPE component is permitted in a predetermined area.



21: 2023/04853. 22: 2023/04/28. 43: 2024/06/25 51: E21D

- 71: J.H. FLETCHER & CO.
- 72: MCQUERREY, Sean Joseph

33: US 31: 63/084,238 32: 2020-09-28 54: AUTONOMOUS ROOF BOLTER WITH SENSOR AND RELATED METHODS 00: -

An apparatus is for installing one or more bolts in a roof of a mine, potentially in an autonomous manner. A sensor captures image data of the roof of the mine. A controller automatically controls a boom associated with a bolter to install the bolts based at least partially on the image data. A system for capturing image data of a mine is also provided, which includes at least one sensor to capture current or present image data of a portion of the mine, such as the roof, and a controller for comparing the current or present image data to previously collected, pre-existing image data, so as to determine a location in the mine based on the comparison. Related methods are also disclosed.



- 21: 2023/04867. 22: 2023/04/28. 43: 2024/07/08 51: F42B
- 71: EURENCO FRANCE SAS
- 72: GALVAN, CÉDRIC, CRESPY, JEAN-LUC 33: FR 31: FR2011291 32: 2020-11-04 54: METHOD FOR MANUFACTURING A HOUSING ENCLOSING A PYROTECHNIC LOAD 00: -

The invention relates to a method for manufacturing a housing enclosing a pyrotechnic load and a facility for implementing said method. The method comprises at least: - inserting a pyrotechnic load into a loading space (V) defined laterally by a rigid

cylindrical loading wall (32) and in a lower portion by a first element (10) of the housing to be obtained; positioning a second cylindrical housing element (50) to be obtained above the inserted pyrotechnic load and in the extension of the cylindrical loading wall, the second element having a cylindrical side wall with the same shape and diameter as the cylindrical loading wall and being capable of engaging with the first element; and - concurrently translating (T1) the second element and the cylindrical loading wall relative to the first element so as to cause the second element to engage with the first element and form the housing enclosing the pyrotechnic load.



21: 2023/04914. 22: 2023/05/02. 43: 2024/07/10 51: D21J

71: DIAGEO GREAT BRITAIN LIMITED 72: TURNER, ADAM RICHARD, WILSON, NATASHA, LANZON-MILLER, JOSHUA, MORRIS, JONATHAN

33: GB 31: 2017432.2 32: 2020-11-04 33: GB 31: 2019305.8 32: 2020-12-08 54: A MOULD FOR FORMING A UNITARY ARTICLE FROM PULP

00: -

A mould (14) for forming an article from a fibre suspension. The mould includes an insert with a cavity (27) in the negative shape of an article to be formed and two regions of different porosity/permeability (28, 29) about the cavity (27). In use the mould communicates a suspending fluid of the fibre suspension, e.g. by vacuum pump, through theat least two regions of different porosity/permeability about the cavity. A formed shape (22) of fibres is left behind on the cavity.



- 21: 2023/04931. 22: 2023/05/03. 43: 2024/07/12 51: C12N C12P
- 71: CJ CHEILJEDANG CORPORATION

72: KIM, Yeonsoo, HA, Cheol Woong, YANG, Eun Bin, IM, Yeong Eun

33: KR 31: 10-2021-0000361 32: 2021-01-04 54: GLUTAMATE-CYSTEINE LIGASE VARIANT AND METHOD FOR PRODUCING GLUTATHIONE USING SAME

00: -

The present application relates to a novel glutamatecysteine ligase variant and a method for producing glutathione using same.

#### 21: 2023/04941. 22: 2023/05/03. 43: 2024/07/15 51: B01D

71: Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., Dongfang (Guangzhou) Heavy Machinery Co., Ltd.

72: JIAO, Ming, LIU, Xiaohong, LIN, Shaoxuan, YANG, Yaowu, GU, Guoxing, YING, Bingbin, LI, Jinghuai, ZHOU, Dan, SONG, Yinxi, LIU, Liangliang, SHI, Zhilong, ZHENG, Huan, CHEN, Qingqi 33: CN 31: 202011084252.9 32: 2020-10-12 54: MOISTURE SEPARATOR UNIT OF MOISTURE SEPARATOR REHEATER

00: -

A moisture separator unit (100) of a moisture separator reheater, the moisture separator unit comprising: a drain tank (1) and two separation components (2), wherein the two separation components (2) are symmetrically arranged on the drain tank (1), such that the moisture separator unit (100) is in the shape of the letter "Y". Each separation component (2) is composed of a frame component (21) and a corrugated plate component

(22), wherein the corrugated plate component (22) is fixed in the frame component (21); the frame component (21) is provided with a steam inlet (215) and a steam outlet (216), the steam inlet (215) being provided with a gas equalizing hole plate (23); and the bottom of the frame component (21) is provided with a through hole (2121), the through hole (2121) being in communication with the drain tank (1).



21: 2023/04952. 22: 2023/05/04. 43: 2024/07/15 51: F42C

71: Junghans T2M SAS

72: COUSINARD, Thierry

33: FR 31: 2204253 32: 2022-05-05 54: BOMB FUZE INITIATOR

#### 00: -

Bomb fuze initiator (10) equipped with a cap (11) configured to open after bomb release, a device (12) for detecting bomb release, a device (13) for determining bomb speed, an integrated proximity sensor and a fuze connector (15) intended to connect the fuze initiator (10) to a bomb fuze, the integrated proximity sensor comprising:- a transceiver (16) of electromagnetic waves comprising an HF antenna (19) and an HF circuit (20) or comprising an IR source (21) and a photodetector (22); and- a transmission link (17) configured to transmit the signal delivered by the transceiver (16) of electromagnetic waves.



21: 2023/04957. 22: 2023/05/04. 43: 2024/09/10
51: B01D; C01B
71: H2 POWERTECH LLC
72: HILL, Charles, R.
33: US 31: 17/107,523 32: 2020-11-30
54: MEMBRANE-BASED HYDROGEN PURIFIERS
00: Membrane-based hydrogen purifiers having graphite

frame members. The purifiers include a hydrogenseparation membrane module with at least one membrane cell containing at least one hydrogenselective membrane, which includes a permeate face and an opposed mixed gas face, and a fluidpermeable support structure that physically contacts and supports at least a central region of the permeate face. The membrane cell further includes a permeate-side frame member and a mixed gasside frame member. The permeate-side frame member is interposed between the hydrogenselective membrane and the fluid-permeable support structure to physically contact a peripheral region of the permeate face and a peripheral region of the fluid-permeable support structure. The mixed gasside frame member physically contacts a peripheral region of the mixed gas face. At least one of the permeate-side frame member and the mixed gasside frame member is a graphite frame member.



21: 2023/04965. 22: 2023/05/04. 43: 2024/07/15 51: A61K; A61P 71: AstraZeneca AB 72: LEO, Elisabetta 33: US 31: 63/089,195 32: 2020-10-08 54: COMBINATION THERAPY FOR TREATING CANCER

00: -

The present disclosure relates, in general, to therapeutic combinations, and to corresponding methods of treatment, pharmaceutical compositions, and kits.

21: 2023/04972. 22: 2023/05/04. 43: 2024/07/10 51: A43C; A43B 71: CHARNAUD TECHNOLOGIES (PTY) LTD. 72: CHARNAUD, ROBIN JOHN

33: ZA 31: 2020/06864 32: 2020-11-04

#### 54: SAFETY BOOT

00: -

A safety boot, specifically, a smelter boot (10) adapted for use in hot metal smelter and furnace operations. The smelter boot (10) comprises a closure arrangement (12) comprising first, second and third upper portions (14, 16, 18) separated by first and second openings respectively. A first binding arrangement (24) is provided for releasably and adjustably retaining the first and second upper portions (14, 16) relative to each other, while a quick release closure mechanism (44) is provided between the second and third upper portions (16, 18). The first binding arrangement (24) is configured to allow the first and second upper portions (14, 16) to be released from each other, when the first binding arrangement (24) is exposed to a temperature equal to or above a predetermined temperature.

21: 2023/05009. 22: 2023/05/05. 43: 2024/07/10 51: A61K; A61P

71: NAVIN SAXENA RESEARCH & TECHNOLOGY PVT. LTD.

72: SAXENA, KUNAL, SAXENA, AAKARSH 33: IN 31: 202021046814 32: 2020-10-27 54: PROCESS FOR PREPARATION OF PURE NALTREXONE DECANOATE, ITS SALTS, COMPOSITION AND METHOD OF USE THEREOF 00: -

Disclosed herein is an improved process for preparation of naltrexone decanoate under a monophasic medium using a single solvent by esterifying naltrexone with a decanoyl chloride in the presence of an organic base, wherein the solvent is preferably cyclo-pentyl-methyl-ether (CPME) which is non-toxic in nature. The invention further discloses the elimination of an impurity bis- decanoyl naltrexone obtained during the preparation of naltrexone decanoate by preparing acid addition salts of naltrexone decanoate and reconverting into naltrexone decanoate from its acid addition salts by neutralizing using a base in the presence of suitable solvent to obtain naltrexone decanoate with a purity of more than 99% The invention also discloses pharmaceutical composition of naltrexone decanoate with at least one pharmaceutically acceptable excipient and method of use of naltrexone decanoate for the treatment of opioid dependence, alcohol dependence for a period of 7 days to 90 days in a patient in need thereof.

21: 2023/05021. 22: 2023/05/05. 43: 2024/07/15 51: A01N; C05G; C07D 71: WockLab GmbH & Co. KG 72: SCHMALZ, Dirk 33: EP(DE) 31: 20209124.5 32: 2020-11-23 54: COMPOSITION COMPRISING DMPP AND PHOSPHONATE

00: -

The invention relates to a composition comprising (i) a specific pyrazole or an agriculturally acceptable salt thereof; (ii) a phosphonic acid or an agriculturally acceptable salt thereof; (iii) optionally, one or more carboxylic acids, agriculturally acceptable salts or anhydrides thereof; and (iv) optionally, one or more glycols. Compared to conventional compositions, the compositions according to the invention provide improved solubility of salts of pyrazoles such as 3,4 DMPP in aqueous solution. The solutions are stabilized against crystallization by lowering the crystallization point.

21: 2023/05073. 22: 2023/05/08. 43: 2024/07/04 51: A61K; A61P; C07D

71: AstraZeneca UK Limited, Daiichi Sankyo Company, Limited

72: METTETAL II, Jerome Thomas, ASTANEH, Azadeh Cheraghchi Bashi, LEO, Elisabetta, WALLEZ, Yann

33: US 31: 63/089,859 32: 2020-10-09 54: COMBINATION OF ANTIBODY-DRUG CONJUGATE AND PARP1 SELECTIVE INHIBITOR

00: -

A pharmaceutical product for administration of an anti-HER2 antibody-drug conjugate in combination with a PARP1 selective inhibitor is provided. The anti-HER2 antibody drug conjugate is an antibodydrug conjugate in which a drug-linker represented by the following formula (wherein A represents the connecting position to an antibody) is conjugated to an anti-HER2 antibody via a thioether bond. Also provided is a therapeutic use and method wherein the antibody-drug conjugate and the PARP1 selective inhibitor are administered in combination to a subject: Formula (I).



21: 2023/05083. 22: 2023/05/08. 43: 2024/07/10 51: C11D 71: UNILEVER GLOBAL IP LIMITED 72: KHEDKAR, GANESH, KOW, ANGELA JOY, M MANGAVE, ARUN, PILLAY, DARRIUS 33: EP 31: 20213003.5 32: 2020-12-10 54: LAUNDRY SOAP BAR COMPOSITION 00: -

This invention relates to a laundry composition in a solid shaped form for direct application to fabric. Although several approaches at providing laundry soap bars which are firm and have good cleaning performance while maintaining desired sensorial properties have been known, it is still desired to provide improved laundry soap bar composition with good firmness and cleaning performance when such compositions have low TFM and with minimal levels or no synthetic surfactant, while maintaining good user properties. It is thus an object of the present invention to provide a low TFM soap bar composition with higher water content in which the relatively highwater content is maintained in the finished bar composition and the bar composition is stable and suitable for consumer use. The present inventors have found that by incorporating a balanced combination of silica gel and a structuring agent, it is possible to prepare a soap bar composition with lower soap content and higher water content while still maintaining satisfactory bar properties. The laundry soap bar composition also provides good cleaning performance.

21: 2023/05085. 22: 2023/05/08. 43: 2024/07/10 51: F42D; F42C; F42B; C06B; G04F 71: COMERCIALIZADORA EXOBLAST CHILE S.P.A 72: ABARCA VARGAS. EDUARDO ALFREDO

72: ABARCA VARGAS, EDUARDO ALFREDO 54: PROGRAMMABLE NON-EXPLOSIVE ELECTRONIC INITIATOR FOR ROCK BLASTING, AND EXOTHERMIC REACTION AND TESTING PROCESS OF THE INITIATOR

#### 00: -

The present development comprises a

programmable non-explosive electronic initiator and an exothermic reaction and testing process of the initiator, the purpose whereof is to initiate, in a controlled and safe manner, the blasting of rock. Its application is principally in the mining and civil works sectors. This system solves a sensitive issue in the industry, namely the non-activation of the devices at the time of blasting (dud charges) and reducing the operating risks of fragmentation works, endowing the on-site operations with continuity. The foregoing is based on the fact that this initiator enables precise operation times for controlling vibrations by means of pre-set delays; immediately identifies non-operative initiators due to faulty lines or connections; as it has no explosive components, it can be programmed remotely if so desired by the user; and finally, each initiator is programmed as unique and unrepeatable.



21: 2023/05088. 22: 2023/05/08. 43: 2024/07/10 51: C11D

71: UNILEVER GLOBAL IP LIMITED
72: BERA, ARIJIT, KOTTUKAPALLY, JIJI PAUL
33: EP 31: 20212124.0 32: 2020-12-07
54: A HARD SURFACE CLEANING
COMPOSITION

00: -

The present invention relates to liquid aqueous detergent compositions comprising a surfactant system with a Renewable Carbon Index (RCI) of at least 0.8. The invention further relates to a method of cleaning a hard surface using the composition of the invention, as well as the use thereof.

21: 2023/05089. 22: 2023/05/08. 43: 2024/07/10 51: C11D

71: UNILEVER GLOBAL IP LIMITED 72: THOMPSON, KATHERINE MARY 33: EP 31: 20212199.2 32: 2020-12-07 54: DETERGENT COMPOSITIONS

00: -

A detergent composition for the non-oxidative cleaning of substrate stains, the composition comprising: (b) gluconic acid or salt thereof; (b) an aminocarboxylate; and (c) from 3 to 80% (by weight based on the total weight of the composition) of one or more detersive surfactants.

21: 2023/05121. 22: 2023/05/09. 43: 2024/07/10 51: C04B

71: ETEX BUILDING PERFORMANCE

INTERNATIONAL SAS 72: MARTIN, DANIEL, BOISVERT, JEAN-PHILIPPE 33: EP 31: 20306392.0 32: 2020-11-17 54: PLASTER COMPOSITION FOR FIRE RESISTANT PLASTERBOARD 00: -

The present invention concerns a plaster composition for manufacturing of a fire resistant plasterboard, said composition comprising hydratable calcium sulphate, water with a water/hydratable calcium sulphate ratio between 0.50 and 1.00 and the following components: -0.5-10 wt.% of SiO2 particles having a particle size distribution d50 >10  $\mu$ m; -2.5-10 wt.% of CaCO3; -0.2-2.5 wt.% of polysiloxane wherein the wt.% are expressed relative to the weight of the hydratable calcium sulphate.



21: 2023/05155. 22: 2023/05/10. 43: 2024/07/08 51: A61K

71: LG CHEM, LTD.

72: YOO, Seok Cheol, JANG, Joomyung, KIM, Ree Sun, SEO, Jin A

33: KR 31: 10-2020-0165790 32: 2020-12-01 54: ORAL FORMULATION COMPRISING 1-(3-CYANO-1-ISOPROPYL-INDOLE-5-YL)PYRAZOLE-4-CARBOXYLIC ACID AND METHOD FOR PREPARING SAME

00: -

The present invention relates to an oral formulation comprising a high content of an API selected from 1-(3-cyano-1-isopropyl-indole-5-yl)pyrazole-4carboxylic acid or a pharmaceutically acceptable salt thereof. The oral formulation according to the present invention has a high content and excellent physical properties by comprising a fluidizing agent from among excipients, and thus can have increased economic efficiency and convenience of administration.



21: 2023/05156. 22: 2023/05/10. 43: 2024/07/08 51: A61K A61P

#### 71: LG CHEM, LTD.

72: YOO, Seok Cheol, LEE, Sun, YUN, Duck II, PARK, Junghong, SUN, Hyun Ji 33: KR 31: 10-2020-0166051 32: 2020-12-01 54: STABLE ORAL FORMULATION CONTAINING 1-(3-CYANO-1-ISOPROPYL-INDOL-5-YL)PYRAZOLE-4-CARBOXYLIC ACID 00: -

The present invention relates to a stable oral formulation containing 1-(3-cyano-1-isopropyl-indol-5-yl)pyrazole-4- carboxylic acid or a

pharmaceutically acceptable salt thereof as an API. Being characterized by the maintenance of stability even though containing no stabilizers as excipients, the stable oral formulation according to the present invention contains an increased content of API in place of the inclusion of a stabilizer and as such, can be improved in terms of dose convenience.

21: 2023/05167. 22: 2023/05/10. 43: 2024/07/10 51: E02D

71: NV BEKAERT SA, SOLETANCHE FREYSSINET

72: AURAY, GERMAIN, LINS, ANDRÉ, CATTOOR, KO, ALLAERT, BART, ARESSY, MATTHIEU, FREITAG, NICOLAS, BENNANI BRAOULI, YASSINE

33: EP 31: 20290074.2 32: 2020-11-03 54: SOIL REINFORCEMENT STRIP AND GRID 00: -

The invention relates to a soil reinforcement strip (10, 30) for mechanically stabilizing earth structures. The strip (10, 30) is comprised of a polymer matrix (12, 32) which envelops elongated steel elements (14, 34) for reinforcing the matrix (12, 32). The steel elements (14, 34) may be steel cords comprising a plurality of steel filaments (20, 22, 40, 42) The invention also relates to a reinforcement grid (60) for soil and ground. Furthermore, the invention also relates to applications of this reinforcement strip (10, 30) and grid (60), namely to a reinforced soil layer (80) and to a mechanically stabilized earth structure or retaining wall (82).



21: 2023/05212. 22: 2023/05/11. 43: 2024/09/10 51: A23C

71: FAIRLIFE, LLC

72: DRAPALA, Kamil Piotr, UR REHMAN, Shakeel, DOELMAN, Timothy, Peter 33: US 31: 63/112,688 32: 2020-11-12

#### 54: CONTINUOUS LACTOSE HYDROLYSIS IN MILK AND OTHER DAIRY PRODUCTS 00: -

Methods for making a dairy composition containing less than 2000 ppm of lactose can include the steps of subjecting a mixture of a dairy product and a lactase enzyme to a peak temperature from 55 to 78 °C for 15 sec to 15 min to form the dairy composition containing less than 2000 ppm of lactose, and then heat treating the dairy composition to deactivate the enzyme and to sterilize the dairy composition. The amount of the lactase enzyme is from 0.01 to 5 wt. %, based on the amount of lactose in the dairy product.



21: 2023/05214. 22: 2023/05/11. 43: 2024/07/10 51: C07F

71: LIER CHEMICAL CO., LTD., GUANGAN LIER CHEMICAL CO., LTD.

72: LIU, YONGJIANG, CAI, JIE, XU, MIN, LIU, TINGYING, ZHOU, LEI, ZENG, WEI, CHENG, KE, YIN, YINGSUI

33: CN 31: 202011093594.7 32: 2020-10-14 54: METHOD FOR PREPARING L-GLUFOSINATE 00: - Provided are a method for preparing L-glufosinate and the intermediate compounds of formula (V) and formula (III).

21: 2023/05217. 22: 2023/05/11. 43: 2024/07/10 51: C07K; A61K; A61P 71: AKESO BIOPHARMA, INC. 72: LI, BAIYONG, XIA, YU, WANG, ZHONGMIN, ZHANG, PENG 33: CN 31: 202011153458.2 32: 2020-10-26 54: ANTI-TIGIT ANTIBODY, AND PHARMACEUTICAL COMPOSITION AND USE THEREOF 00: -

An anti-TIGIT antibody, and a pharmaceutical composition and the use thereof. The present invention relates to an anti-TIGIT antibody or an antigen-binding fragment thereof, wherein a heavy chain variable region of the antibody comprises HCDR1-HCDR3 having amino acid sequences as shown in SEQ ID NOs: 3-5, respectively; and a light chain variable region of the antibody comprises LCDR1-LCDR3 having amino acid sequences as shown in SEQ ID NOs: 8-10, respectively. The antibody can effectively bind to TIGIT and has the potential for use in tumor prevention and treatment.



21: 2023/05219. 22: 2023/05/11. 43: 2024/07/10 51: G06F; H04R 71: SAMSUNG ELECTRONICS CO., LTD. 72: RYU, HEEJUN, JUNG, HEESEOK, PARK,

HANBOM, LEE, SUNGHYUP, KOO, SUNGKEUN, KIM, MYEONGJIN, YEON, DONGJU 33: KR 31: 10-2021-0003575 32: 2021-01-11

#### 54: ELECTRONIC DEVICE COMPRISING MICROPHONE MODULE

#### 00: -

An electronic device according to various embodiments of the present disclosure may comprise: a rear plate which includes a first throughhole; a flash member which includes a flash lens and a support structure accommodating the flash lens and including a second through-hole opposite to the rear plate, and at least a part of which is disposed in the first through-hole; a support member which supports the flash member and includes a third through-hole opposite to at least a part of the second through-hole; and a microphone module which is disposed under the support member and covers the third through-hole.



21: 2023/05241. 22: 2023/05/12. 43: 2024/09/10 51: A24B; A24C; A24D; A24F 71: PHILIP MORRIS PRODUCTS S.A. 72: FASCIANI, Chiara, FRAUENDORFER, Felix 33: EP 31: 20202428.7 32: 2020-10-16 54: LIQUID NICOTINE FORMULATION AND CARTRIDGE FOR AN AEROSOL-GENERATING SYSTEM

#### 00: -

A liquid nicotine formulation (131) for use in an aerosol-generating system, the liquid nicotine formulation comprising: nicotine; a liquid carrier; and a plurality of carboxylic acids, wherein the plurality of carboxylic acids comprises benzoic acid and one or more carboxylic acids selected from the group consisting of acetic acid, adipic acid, fumaric acid, lactic acid, levulinic acid, malic acid, and succinic acid, wherein the molar ratio of total carboxylic acid to nicotine in the liquid nicotine formulation is greater than or equal to about 0.65:1, and wherein the molar ratio of benzoic acid to nicotine in the liquid nicotine formulation is greater than or equal to about 0.2:1. A cartridge (100) for an aerosol-generating system, the cartridge comprising: a liquid storage portion (130, 135) comprising: the liquid nicotine formulation; and a fluid permeable heating element (122) in fluid communication with the liquid storage portion (130, 135), wherein the fluid permeable heating element (122) comprises an electrically conductive mesh configured to vaporise the liquid nicotine formulation to generate an aerosol.



21: 2023/05251. 22: 2023/05/12. 43: 2024/07/10 51: C10M; C10N

71: CHEVRON U.S.A. INC.

72: VAN DAM, WILLEM, PATEL, MIHIR K

33: US 31: 63/106,538 32: 2020-10-28 54: LUBRICATING OIL COMPOSITION WITH RENEWABLE BASE OIL, HAVING LOW SULFUR AND SULFATED ASH CONTENT AND CONTAINING MOLYBDENUM AND BORON COMPOUNDS

#### 00: -

A lubricant composition and method for improving engine performance using a renewable base oil composition comprising hydrocarbon mixtures and a lubricant additive having a sulfur content of up to about 0.4 wt.% and a sulphated ash content of up to about 0.5 wt. % is described herein.

- 21: 2023/05254. 22: 2023/05/12. 43: 2024/07/10
- 51: A61K; C07K
- 71: HPVVAX, LLC
- 72: IOANNIDES, TIM, BADIAVAS, EVANGELOS V

33: US 31: 17/068,087 32: 2020-10-12 54: COMPOSITION AND METHOD FOR TREATING CANCER USING A VACCINE AS A

FIRST THERAPUEUTIC ACTIVE INGREDIENT IN

## COMBINATION WITH A SECOND ACTIVE INGREDIENT

00: -

A method for treating or reducing the incidence of recurrence of cancer, benign tumors, or HPVassociated lesions, including skin cancer, and particularly squamous cell carcinoma (SCC and basal-cell carcinoma, by administering to a patient one or more doses of HPV recombinant vaccine as a first active therapeutic agent in combination with a second active therapeutic agent administered concomitantly or as a fixed-dose combination composition.

21: 2023/05291. 22: 2023/05/15. 43: 2024/07/10 51: A61B

71: MATRIXLABS MEDICAL CO., LTD.

72: TU, FUNG-CHAO, WU, WEN-YIH, CHEN, KUEI-HUA

# 54: NEEDLE SET FOR LAPAROSCOPY AND KNOTTING DEVICE HAVING NEEDLE SET 00: -

A needle set (30) for laparoscopy and a knotting device having the needle set (30), the needle set (30) comprising a body and a sleeved shaft (38), a blocking piece (31) is formed on one end of the body, a receiving slot (37) is concavely provided on the other end thereof, and the sleeved shaft (38) is a hollow tube and is fixedly provided within the body. Hence, the needle set (30) can be inserted into a sleeve (14) in an axial direction, so as to achieve the effects of simplifying the overall structural complexity of the knotting device, reducing the overall length of the knotting device, and being easy to operate.



21: 2023/05292. 22: 2023/05/15. 43: 2024/07/10

#### 51: A61B

71: MATRIXLABS MEDICAL CO., LTD. 72: TU, FUNG-CHAO, WU, WEN-YIH, CHEN, KUEI-HUA

#### 54: TYING STRUCTURE CAPABLE OF BEING USED FOR SUTURING 00: -

A tying structure capable of being used for suturing. In the structure, a sliding pipe (11) is slidably inserted into an outer pipe (10); a front end of the sliding pipe (11) extends out of the outer pipe (10) to form a sleeve portion (111); a tying wire (20) is inserted in the sliding pipe (11), and tied into a slipknot (21) at the sleeve portion (111); a binding loop (22) is formed between a protruding portion and the slipknot (21) to allow a tying wire segment (31) different from the tying wire (20) to pass through: when the tying wire (20) is pulled backwards, the sleeve portion (111) moves into the outer pipe (10), the binding loop (22) becomes smaller, and the tying wire segment (31) is folded back such that a foldedback end (311) thereof sinks into a front end of a threading hole (112); and the slipknot (21) slips from the sleeve portion (111), moves forward to pass over the binding loop (22), and is tightened at a foldedback part of the tying wire segment (31) to form a wire end structure (A). By means of such a structure, it is easy for a user to quickly make a wire end at the tying wire segment (31), and the structure is applicable to operations for surgically suturing wounds or forming ends of various wires.



21: 2023/05294. 22: 2023/05/15. 43: 2024/07/10 51: C12Q 71: EPIGENICA AB 72: ELSÄSSER, SIMON 33: EP 31: 20211177.9 32: 2020-12-02 54: MULTIPLEXED METHOD FOR ASSESSING GLOBAL OR GENOMIC LOCUS-SPECIFIC LEVELS OF CHROMATIN MODIFICATION 00: -

The invention provides methods for assessing the global levels of a plurality of different chromatin modifications in parallel in a plurality of samples. The methods disclosed herein also relate to assessing the levels of a plurality of different chromatin modifications, in a plurality of locations of interest within genome, in a plurality of samples. The methods are highly multiplexed, quantitative and involve chromatin immunoprecipitation and sequencing technology.



21: 2023/05324. 22: 2023/05/16. 43: 2024/07/10 51: E02F

71: CATERPILLAR INC.

72: SINN, ERIC T, SERRURIER, DOUGLAS C, YOEU, RAMMAGY 33: US 31: 16/951,630 32: 2020-11-18 54: WORK IMPLEMENT ASSEMBLY USING ADAPTERS, ADAPTER COVERS, AND A NOTCHED BASE EDGE 00: -

Each of the plurality of center notches (702) and the first and the second end notches (724, 724') of a base edge (700) includes a different configuration including a different end notch depth (725) along the direction of assembly (714) that is greater than a center notch depth (725') along the direction of assembly (714).



21: 2023/05325. 22: 2023/05/16. 43: 2024/07/10 51: E02F

71: CATERPILLAR INC.
72: SINN, ERIC T, SERRURIER, DOUGLAS C, YOEU, RAMMAGY
33: US 31: 16/951,186 32: 2020-11-18
54: WORK IMPLEMENT ASSEMBLY USING ADAPTERS, ADAPTER COVERS, AND A NOTCHED BASE EDGE

00: -

An adapter cover (900, 1000) includes a front face portion (914, 1014) that defines a thru-hole (916, 1016) configured to allow a nose portion of an adapter to pass horizontally through the thru-hole (916, 1016) past the interior surface (906, 1006) and then past the exterior surface (904, 1004), and a top single leg (918, 1018) extends horizontally from the front face portion (914, 1014). The thru-hole defines (916, 1016) a perimeter (936, 1036) with a right side edge (1040), a left side edge (1042), a top edge (1044), an upper right corner and an upper left corner, and further defines a bottom open end (1036).



21: 2023/05326. 22: 2023/05/16. 43: 2024/07/16

- 51: E02F
- 71: CATERPILLAR INC.

#### 72: SINN, ERIC T, SERRURIER, DOUGLAS C, YOEU, RAMMAGY 33: US 31: 16/951,231 32: 2020-11-18 54: ADAPTER FOR ATTACHING A TOOL TO A WORK IMPLEMENT 00: -

An adapter (500) includes a first leg, a second leg (522), and a throat portion (526)at least partially define a slot (530) that defines a projection (548) at the closed end (532) of the slot (530) that includes a flat middle portion (554) straddled laterally by a first arcuate portion (556) and a second arcuate portion (558), defining a lateral middle portion width (560). A projection protruding distance (606) is measured along the direction of assembly (536) from the closed end (532) of the slot (530) to the flat middle portion (554). The projection protruding distance (606) ranges from 0.8 to 1.2 multiplied by the lateral middle portion width (560).



21: 2023/05329. 22: 2023/05/16. 43: 2024/07/10 51: C07K

71: UCB BIOPHARMA SRL

72: RASTRICK, JOSEPH MICHAEL DAVID, SILVA, JOHN PAUL, LIGHTWOOD, DANIEL JOHN, ADAMS, RALPH, PALFRAMAN, ROGER THOMAS, TYSON, KERRY LOUISE, ELLIOTT, PETER CHARLES, MAYANK, SEEMA, CROSBY, ANDREA JULIE, BARRY, EMILY MARY CAIRISTINE, LEYSEN, SEPPE FRANS ROMAN, AHDASH, ZAINAB

#### 33: EP 31: 20212128.1 32: 2020-12-07 54: MULTI-SPECIFIC ANTIBODIES AND ANTIBODY COMBINATIONS 00: -

The present invention relates to antibodies binding to IL13 and IL22. The invention provides novel multispecific antibodies that bind to both IL13 and IL22 and compositions comprising an antibody that binds to IL13 and an antibody that binds to IL22. The invention further relates to therapeutic uses of the combination of anti-IL13 and anti-IL22 antibodies and multi-specific antibodies that bind to both IL13 and IL22.

21: 2023/05336. 22: 2023/05/16. 43: 2024/07/10 51: C07D; A61K; A61P 71: UCB BIOPHARMA SRL 72: DELATOUR, CLAUDE 33: EP 31: 20215255.9 32: 2020-12-18 54: A SUBSTITUTED TETRAHYDROISOQUINOLINE DERIVATIVE AS A D1 POSITIVE ALLOSTERIC MODULATOR 00: -

The present invention relates to compound according to formula (I) which is a positive allosteric modulator of D1 and accordingly of benefit as pharmaceutical agent for the treatment of diseases in which D1 receptors play a role.



21: 2023/05337. 22: 2023/05/16. 43: 2024/07/10 51: A61K; A61P

71: 2QR RESEARCH B.V.

72: KOUMANS, FLORIS, KWAKMAN, PAUL

#### 33: EP 31: 20202957.5 32: 2020-10-21 54: ALOE EXTRACTS FOR MICROBIAL NEUTRALISATION

00: -

The present invention relates to a composition comprising polysaccharides derivable from Aloe vera with aggregating activity towards microorganisms and to its use in preventing or treating infections. The composition having an average molecular weight in the range of 30-100 kDa and comprising 80-100% w/w mannose and 0-5% w/w glucose.
21: 2023/05379. 22: 2023/05/17. 43: 2024/07/10 51: F42B; F42D; E21C 71: LUOSSAVAARA-KIIRUNAVAARA AB

72: PETROPOULOS, NIKOLAOS 33: SE 31: 2051232-3 32: 2020-10-22 54: DETONATOR SUPPORT DEVICE FOR CHARGING A BLASTHOLE, BLASTING SYSTEM, METHOD OF PREPARING A DETONATOR SUPPORT DEVICE, EXPLOSIVE MATERIAL CHARGING VEHICLE AND DATA MEDIUM 00: -

The present invention regards a detonator support device (1) configured for internally supporting an elongated detonator unit (3), the detonator support device (1) exhibits an upper end (5) and a lower end (7) and comprises a first elongated sidewall (9) hingedly coupled to a second elongated sidewall (11) via a hinge member (13), a latching member (15) of the detonator support device (1) is configured to secure the first elongated sidewall (9) to the second elongated sidewall (11) in a closed state. A first cord clamping surface (17) of the first elongated sidewall (9) is configured to come in position opposite a second cord clamping surface (19) of the second elongated sidewall (11) in said closed state for engagement with at least one cord member (21). The present invention further regards a method of preparing a detonator support device and a blasting system (100).

51: F42D; E21C; F42B

71: LUOSSAVAARA-KIIRUNAVAARA AB 72: PETROPOULOS, NIKOLAOS 33: SE 31: 2051233-1 32: 2020-10-22 54: A BLASTING SYSTEM AND A METHOD OF EXPLOSIVE MATERIAL CHARGING 00: -

The invention concerns a blasting system (1) configured for explosive material charging in a borehole (3). The system (1) comprises a detonator support device (5) configured to be inserted into the borehole (3) by means of a charging hose (7); a main body (9) of the detonator support device (5) comprises a channel (8) oriented along a main body centre line (CL) extending along the borehole extension during said explosive material charging; an openable cover device (14) covering the channel (8) is configured to come into contact with the charging hose (7) in motion for pushing the main body (9) along the borehole (3), wherein the charging hose (7) in motion is configured to open the openable cover device (14) whilst a stopping arrangement (13) stops the main body (9). The invention also concerns a method of explosive material charging in a borehole (3) by means of the blasting system (1).



21: 2023/05381. 22: 2023/05/17. 43: 2024/07/10 51: F42B; F42D

71: LUOSSAVAARA-KIIRUNAVAARA AB

72: PETROPOULOS, NIKOLAOS

33: SE 31: 2051234-9 32: 2020-10-22



21: 2023/05380. 22: 2023/05/17. 43: 2024/07/10

#### 54: EXPLOSIVE MATERIAL CHARGING DEVICE FOR CHARGING A BOREHOLE METHOD OF POSITIONING AN EXPLOSIVE MATERIAL CHARGING DEVICE EXPLOSIVE MATERIAL CHARGING VEHICLE AND DATA MEDIUM 00: -

The present invention concerns an explosive material charging device (1) and a method of positioning the explosive material charging device (1) in a borehole (3). The explosive material charging device (1) comprises a top anchor unit (5) and a bottom anchor unit (7) each configured to engage the borehole wall (8), an expandable tube member (11) arranged between the top anchor unit (5) and the bottom anchor unit (7) and configured to be charged with explosive material (40), the bottom anchor unit (7) comprises a backflow prevention valve device (13) configured to prevent the explosive material (40) to flow out from the expandable tube member (11), wherein the backflow prevention valve device (13) is openable for permitting a charging hose (15) to enter the expandable tube member (11) for reaching the interior of the top anchor unit (5),



21: 2023/05421. 22: 2023/05/18. 43: 2024/07/10 51: C07K; A61K; A61P; C07C; C12P 71: KAGOSHIMA UNIVERSITY 72: ITO, YUJI, NAKAYAMA, HIROSHI, RAFIQUE, MD ABDUR 33: JP 31: 2020-186833 32: 2020-11-09 33: JP 31: 2021-082739 32: 2021-05-14

# 54: PEPTIDE CROSSLINKING AGENT AND CROSSLINKED PEPTIDE WHICH IS CROSSLINKED USING SAID CROSSLINKING AGENT

00: -

A protein or peptide crosslinking agent which is represented by formula (I). [In the formula, A is a hydrogen atom, a C1-6 alkyl group which may be substituted with a phenyl group or a halogen atom, or a phenyl group.]



21: 2023/05422. 22: 2023/05/18. 43: 2024/07/10 51: A23K 71: AGRO INNOVATION INTERNATIONAL

71: AGRO INNOVATION INTERNATIONAL 72: LAZA KNOERR, ANCA LUCIA, DE TONNAC, AURIANE

33: FR 31: FR2011320 32: 2020-11-04 54: RAW MATERIAL FOR ANIMAL NUTRITION COMPRISING AN ORGANO-MINERAL COMPLEX CONTAINING DIETARY PHOSPHATE AND A HUMIC SUBSTANCE 00: -

The invention relates to a food-grade raw material for animal nutrition, comprising an organo-mineral complex containing a food-grade phosphate and a humic substance. The raw material improves the digestibility of the ration, absorbs mycotoxins, and increases zootechnical performance.



21: 2023/05423. 22: 2023/05/18. 43: 2024/07/10 51: C05D; C05F; C05G 71: AGRO INNOVATION INTERNATIONAL 72: PLUCHON, SYLVAIN, ARKOUN, MUSTAPHA Y O, MAILLARD, ANNE, YVIN, JEAN-CLAUDE, GARCIA-MINA FREIRE, JOSE MARIA 33: FR 31: FR2012113 32: 2020-11-25 54: FERTILIZING AND/OR SOIL CONDITIONING COMPOSITION INTENDED FOR CULTURE SUBSTRATES AND/OR CULTURE SOLUTIONS 00: -

The present invention relates to a composition intended for culture substrates and/or culture solutions comprising the combination of - (a) at least one clay, siliceous or clay-siliceous mineral compound and - (b) at least one carbon compound comprising at least 5% by weight of total carbon and/or at least 1% by weight of organic carbon relative to the total weight of the carbon compound, the combination being obtainable by heat treating, in the presence of water, the mixture of compounds (a) and (b). It also relates to the method of manufacturing and using same as well as a fertilizer or soil conditioner comprising same and the use thereof.

21: 2023/05424. 22: 2023/05/18. 43: 2024/07/10 51: C12N; A61K; A61P; C07K; G01N 71: GREEN CROSS CORPORATION 72: NAM, HYUN-JA, HWANG, SUNG HO, KWAK, HEECHUN, CHOI, GAHEE, KIM, SUYONG, KIM, YU YOUNG, LEE, YONGMIN, LEE, CHAE MOK, SHIN, SUNHYE, KWON, YOUNG EUN, JO, SEUNGHYUN

#### 33: KR 31: 10-2020-0154710 32: 2020-11-18 54: ADAMTS13 VARIANT HAVING INCREASED ESCAPING RATE OR ACTIVITY AGAINST AUTOANTIBODY 00: -

The present invention relates to an ADAMTS13 mutant protein having an improved escaping rate against an autoantibody and a composition for preventing or treating thrombotic diseases using same. By efficiently avoiding representative autoantibodies known to have high binding affinity to the main domain of ADAMTS13, the ADAMTS13 variant protein of the present invention can be used as an effective therapeutic composition for various thrombotic diseases, such as TTP (thrombotic thrombocytopenic purpura), etc., in which the presence of such autoantibodies is the main etiology, and can stably maintain the biological activity thereof when administered into a body. In addition, as a new site recognized by an autoantibody is identified within ADAMTS13, the present invention can be used usefully in screening novel ADAMTS13 variants having an improved autoantibody escaping rate by applying a combination of various mutations within the corresponding site.



21: 2023/05436. 22: 2023/05/18. 43: 2024/07/09 51: C10G; C10L 71: Neste Oyj 72: KURONEN, Markku, KIISKI, Ulla, NORTIO, Jenni, RUONAKANGAS, Anne 33: FI 31: 20206282 32: 2020-12-11 54: RENEWABLE HYDROCARBON COMPOSITION HAVING GOOD CETANE NUMBER AND GOOD COLD PROPERTIES 00: -

Here is provided a novel renewable hydrocarbon composition comprising monobranched isoparaffins, dibranched isoparaffins, tribranched isoparaffins multibranched isoparaffins, and n-paraffins, having carbon numbers from C8 to C30. Said renewable hydrocarbon composition has high cetane number and excellent cold properties. Additionally is provided use of the novel renewable hydrocarbon composition as diesel fuel or as a diesel fuel component.



21: 2023/05466. 22: 2023/05/19. 43: 2024/07/10 51: F16D

71: CATERPILLAR INC.

72: STEINMETZ, ANDREW D, JAYASINGHE, CHANDIMA SURANGIE

33: US 31: 17/101,463 32: 2020-11-23 54: METHOD FOR REMANUFACTURING INTERNAL SPLINE COMPONENTS 00: -

A remanufactured internal spline component (400) includes an inner surface (420) defining a cylindrical bore (410) and a remanufactured internal geometry (430) on the inner surface (420). The internal geometry (430) has a maximum diameter (470) and a minimum diameter (460). The remanufactured internal geometry (430) is created by removing (620) a worn internal geometry (430) to a pre-cladding diameter (480), cladding (630) the inner surface (420) in a plurality of layers by laser cladding to produce a cladded surface (490), and machining (640) the cladded surface (490) to produce the remanufactured internal geometry (430).



21: 2023/05511. 22: 2023/05/22. 43: 2024/07/10 51: F42D

# 71: DYNO NOBEL ASIA PACIFIC PTY LIMITED 72: TERRY, PAUL, MYERS, JOHN 33: AU 31: 2020904099 32: 2020-11-10 54: SYSTEMS AND METHODS FOR DETERMINING WATER DEPTH AND EXPLOSIVE DEPTH IN BLASTHOLES 00: -

An explosive delivery system for dipping and loading a blasthole to determine water depth and explosive depth in blasthole. The explosive delivery system includes a vehicle with a first reservoir configured to store an explosive and a delivery apparatus reel mounted to the vehicle with a delivery apparatus stored on the delivery apparatus reel. The delivery apparatus having a central bore that extends a length of the delivery apparatus from a proximal end to a distal end of the delivery apparatus and an outlet disposed at the distal end. The explosive delivery apparatus is configured to deliver the explosive out of the outlet of the delivery apparatus. The delivery apparatus includes a plurality of level sensors disposed on an outer surface of the delivery apparatus and that are dispersed along the delivery apparatus. Each of the level sensors is configured to determine if it is disposed in water, air, or explosive.



21: 2023/05530. 22: 2023/05/22. 43: 2024/07/10 51: B01D 71: CATERPILLAR INC. 72: IMMEL, JON T, OEDEWALDT, STEPHEN ELLIS, RIES, JEFFREY R, MOREHOUSE, DARRELL L III, SUTTON, BRIAN J, BURCAR, QUINTON MARCUS 33: US 31: 17/102,631 32: 2020-11-24 54: FUEL FILTER PASSAGE FOR DOWNWARD FUEL FLOW DIRECTION 00: -

A center tube (300) and a central fluid supply tube (400) combination includes a center tube (300) body defining a longitudinal length (314), and a central reservoir (302). The center tube (300) also includes an apertured annular wall extending axially the majority of the longitudinal length (314), and a first annular solid wall (308) extending axially from the apertured annular wall (310). A central fluid supply tube (400) is disposed in the central reservoir (302), and includes a second annular solid wall (410) that is radially surrounded by the apertured annular wall (310). The second annular solid wall (410) defines a supply passage (402) with a fully circular flow flux.



21: 2023/05552. 22: 2023/05/23. 43: 2024/07/10 51: C11D

71: UNILEVER GLOBAL IP LIMITED 72: KHEDKAR, GANESH, KOW, ANGELA JOY, PILLAY, DARRIUS, M MANGAVE, ARUN 33: EP 31: 20212976.3 32: 2020-12-10 54: SOAP BAR COMPOSITION 00: -

This invention relates to a laundry composition in a solid shaped form for direct application to fabric. Although several approaches at providing laundry soap bars which are firm and have good cleaning performance while maintaining desired sensorial properties have been known, it is still desired to provide improved laundry soap bar composition with good firmness and cleaning performance when such compositions have low TFM and with minimal levels or no synthetic surfactant, while maintaining good user properties. It is thus an object of the present

invention to provide a low TFM soap bar composition with higher water content in which the relatively highwater content is maintained in the finished bar composition and the bar composition is stable and suitable for consumer use. The present inventors have found that by incorporating a balanced combination of silicate structuring agent, hydroxyalkyl alkyl cellulose and fatty acid soap, it is possible to prepare a soap bar composition with lower soap content and higher water content while still maintaining satisfactory bar properties. The low TFM laundry soap bar also provides good cleaning performance.

21: 2023/05553. 22: 2023/05/23. 43: 2024/07/10 51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: APPAVOO, SHANTHI, ACHARYA I S, NAGARAJA, MAHAPATRA, SAMIRAN, PAUL, PINTU

33: EP 31: 20215090.0 32: 2020-12-17 54: AQUEOUS CLEANING COMPOSITION 00: -

The present invention relates to an aqueous cleaning composition comprising: a. 0.1 to 10 wt% anionic surfactant selected from alkyl sulphates, alkyl ether sulphates and combinations thereof; b. 0.1 to 10 wt% nonionic surfactant selected from alcohol ethoxylates, short chain alkyl poly glycosides and combinations thereof; and c. 1 to 20 wt% organic acid having a pKa of 2.5 to 5.5; wherein the composition has a pH of 2 to 4; wherein the alcohol ethoxylate has from 1 to 7 EO; and wherein the alkyl poly glycoside has alkyl groups from C8 to C10, wherein the composition is free of organic solvent. The invention also relates to a method and use of said composition for cleaning and disinfecting surfaces.

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21: 2023/05554. 22: 2023/05/23. 43: 2024/07/10
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: TROMBETTA, IVANA, PEZZIA, SERENA,
PRETALI, LUCA, GALLUZZI, LORENA
33: EP 31: 20212150.5 32: 2020-12-07
54: A HARD SURFACE CLEANING
COMPOSITION
00: -
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The present invention relates to liquid aqueous detergent compositions comprising a surfactant

system comprising a primary surfactant being anionic surfactant, a secondary surfactant being amphoteric surfactant and polyethylene oxide whilst the surfactant system is free of alkylbenzene sulphonates and derivatives thereof. The invention further relates to a method of cleaning a stainlesssteel hard surface using the composition of the invention, as well as the use thereof.

21: 2023/05555. 22: 2023/05/23. 43: 2024/07/10 51: A23L; A23P

71: UNILEVER IP HOLDINGS B.V. 72: CEBOTARESCU, LIVIA, CAMILO DE OLIVEIRA, MARCELO, TAMMES, HARMANNUS 33: EP 31: 20217753.1 32: 2020-12-30 54: COMPOSITION FOR MAKING BOUILLONS 00: -

The objective of the current invention is to provide a composition that can be used for making bouillons, soups and gravies, and that is substantially free from kitchen salt.

21: 2023/05556. 22: 2023/05/23. 43: 2024/07/10 51: A61Q; A61K 71: UNILEVER GLOBAL IP LIMITED

72: BAJOR, JOHN STEVEN, DOBKOWSKI, BRIAN JOHN, YAROVA, GALINA, LATHROP, WILLIAM F, HARCUP, JASON PETER 33: EP 31: 21158293.7 32: 2021-02-19 33: US 31: 63/130,444 32: 2020-12-24 54: PROLIPID COMPOSITION FOR PERSONALIZED BENEFITS AND METHOD FOR USING THE SAME

00: -

The present invention is directed to a prolipid composition that penetrates the stratum corneum. More particularly, the invention is directed to a prolipid composition that provides personalized benefits by rapidly restoring the skin's natural lipid balance. Such a composition results in elongated fatty acid and/or lipid production deep in the stratum corneum and near the surface of the stratum lucidum. The composition at least comprises a fatty acid, fatty ester and/or an acylglycerol and an activator of a peroxisome proliferator-activated receptor.

21: 2023/05558. 22: 2023/05/23. 43: 2024/07/10 51: A61K; A61Q 71: UNILEVER GLOBAL IP LIMITED

#### 72: DAS, SOMNATH, NYALAM, PRAVEEN 33: IN 31: 202021053948 32: 2020-12-11 33: EP 31: 21189217.9 32: 2021-08-02 54: AN ANTIPERSPIRANT COMPOSITION 00: -

The present invention relates to an anhydrous antiperspirant (AP) composition that comprises conventional metal-based AP actives, natural oil, antioxidant and select non- ionic surfactant that ensures that when such compositions are used on a body part e.g., the axilla there is minimal or no yellow coloured staining of the fabric which is worn by an individual through several use-wash-rinse-dry cycles.

21: 2023/05559. 22: 2023/05/23. 43: 2024/07/10 51: C11D 71: UNILEVER GLOBAL IP LIMITED 72: BATCHELOR, STEPHEN NORMAN 33: EP 31: 20212164.6 32: 2020-12-07 54: COMPOSITION 00: -

A liquid laundry detergent composition comprising C16 and C18 alcohol ethoxylate surfactant wherein the C18 alcohol ethoxylate comprises monounsaturated C18, wherein the proportion of monounsaturated C18 constitutes at least 50% wt. of the total C16 and C18 alcohol ethoxylate surfactant and wherein the C16 alcohol ethoxylate comprises at least 4% of the total C16 and C18 alcohol ethoxylate surfactant and wherein the C16 and 18 alcohol ethoxylate has an average of from 8 to 20 EO groups.

- 71: UNILEVER GLOBAL IP LIMITED
- 72: BATCHELOR, STEPHEN NORMAN
- 33: EP 31: 20212163.8 32: 2020-12-07

## **54: COMPOSITION**

00: -

An aqueous laundry liquid detergent comprising linear alkyl benzene sulphonate (LAS), alkyl ether sulphate surfactant and alkyl ethoxylate surfactant, wherein at least 10% wt. of the alkyl ether sulphate surfactant is C16 or C18 alkyl, and wherein at least 10% wt. of the alkyl ethoxylate surfactant is C16 or C18 alkyl.

<sup>21: 2023/05560. 22: 2023/05/23. 43: 2024/07/10</sup> 51: C11D

21: 2023/05561. 22: 2023/05/23. 43: 2024/07/10 51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED 72: GHOSH, RIMPA, MAJUMDAR, AMITABHA, MALLEMALA, PRATHYUSHA, WASKAR, MORRIS 33: IN 31: 202021052554 32: 2020-12-02 33: EP 31: 21152232.1 32: 2021-01-19 54: TOPICAL SANITISING COMPOSITION COMPRISING MINIMAL AMOUNTS OF AN ANITMICROBIAL LIPID 00: -

The invention relates to a topical sanitising composition comprising: a) polyhydroxy compound selected from a saccharide, a polyol, or combinations thereof; b) antimicrobial lipid; and c) tetrahydroxypropyl ethylenediamine (THPE), wherein the antimicrobial lipid and THPE are present in a weight ratio from 1 : 10,000 to 1 :10. The invention further relates to a method of disinfecting a surface by applying the aforementioned topical composition onto said surface and to the use of the same composition for sanitising skin, hair or the oral cavity. The invention also relates to use of a polyhydroxy compound selected from a saccharide, a polyol or combinations thereof, as an antimicrobial activity promoter.

21: 2023/05562. 22: 2023/05/23. 43: 2024/07/10 51: C11D 71: UNILEVER GLOBAL IP LIMITED 72: BATCHELOR, STEPHEN NORMAN, BURNHAM, NEIL STEPHEN 33: EP 31: 20212171.1 32: 2020-12-07 54: COMPOSITION

#### 00: -

A laundry liquid composition comprising at least 50 % wt. water, an alkyl ether sulphate surfactant and an alcohol ethoxylate surfactant, wherein at least one of the alkyl ether sulphate and alcohol ethoxylate comprises at least 10% weight C16/18 alkyl chains and a dye.

21: 2023/05563. 22: 2023/05/23. 43: 2024/07/10 51: C11D 71: UNILEVER GLOBAL IP LIMITED 72: BISWAS, SARMISTHA, SANKAR, RACHANA 33: EP 31: 21153179.3 32: 2021-01-25 33: IN 31: 202021054415 32: 2020-12-14 33: IN 31: 202121015725 32: 2021-04-01 **54: COMPOSITION** 00: - Concentrated detergent composition comprising less than 5% wt. water, anionic surfactant, and a nonaqueous solvent, wherein the anionic surfactant comprises an anionic surfactant with a monoisopropylamine (MIPA) and/or triisopropanolamine (TIPA) counterion, said composition comprising linear alkylbenzene sulphonate.

21: 2023/05564. 22: 2023/05/23. 43: 2024/07/10 51: A61K; A61Q 71: UNILEVER GLOBAL IP LIMITED 72: LIU, LANHUA, PAN, CHANCHAN 33: EP 31: 21151719.8 32: 2021-01-15 33: CN 31: PCT/CN2020/133390 32: 2020-12-02 54: PERSONAL CARE COMPOSITION COMPRISING GLYCINATE SURFACTANT, POLYOL AND NONIONIC SURFACTANT COMPRISING ALKYL GLUCOSIDE 00: -

Disclosed is a personal care composition comprising glycinate surfactant, polyol, and nonionic surfactant comprising alkyl glucoside, wherein the weight ratio of the polyol to the glycinate surfactant is no less than 5.4:1.

21: 2023/05590. 22: 2023/05/24. 43: 2024/07/03 51: C07D A61K A61P

71: LG CHEM, LTD.

72: HAM, Jin Ok, LEE, Ho Yeon, KIM, Ji Yoon, KIM, Sung Won, CHUN, Seul Ah, LEE, Sang Dae, PARK, Jong Won

33: KR 31: 10-2020-0142400 32: 2020-10-29 54: CRYSTAL FORM IV OF MELANOCORTIN RECEPTOR AGONIST COMPOUND, AND PREPARATION METHOD THEREFOR 00: -

The present invention relates to a crystal form IV of a compound represented by chemical formula 1, a preparation method therefor, and a pharmaceutical composition comprising same. The crystal form IV of a compound represented by chemical formula 1, of the present invention, can be specified by an XRD pattern, DSC profile and/or TGA profile.



21: 2023/05591. 22: 2023/05/24. 43: 2024/07/04 51: C07D A61K A61P

71: LG CHEM, LTD.

72: HAM, Jin Ok, LEE, Ho Yeon, KIM, Ji Yoon, KIM, Sung Won, CHUN, Seul Ah, LEE, Sang Dae, PARK, Jong Won

33: KR 31: 10-2020-0142399 32: 2020-10-29 54: AMORPHOUS MELANOCORTIN-4 RECEPTOR AGONIST

00: -

The present invention relates to an amorphous compound represented by chemical formula 1, a preparation method therefor, and a pharmaceutical composition comprising same. The amorphous compound represented by chemical formula 1 according to the present invention may be characterized by an XRD pattern, a DSC profile, and/or a TGA profile.



21: 2023/05592. 22: 2023/05/24. 43: 2024/07/03 51: B29C B26D C08J B23D B23K 71: EVONIK OPERATIONS GMBH 72: GOLDMANN, Felix, RICHTER, Thomas, ROTH, Matthias Alexander, BECKER, Florian, PINTO, Jorge, Manuel

33: EP 31: 20204645.4 32: 2020-10-29

# 54: PROCESS FOR PRODUCING FOAM PANELS FOR THE PRODUCTION OF FOAM FILMS 00: -

The invention relates to a process for producing foam panels for the production of foam films consisting of a polymer having a glass transition temperature Tg of at least 100°C, characterized in that the average cell diameter measured according to the standard ASTM D 3576 is between 20  $\mu$ m and 250  $\mu$ m and less than 20 cells having a diameter > 260  $\mu$ m are present per m<sup>2</sup> and the elongation at break of the foam is 4%-13% measured according to ASTM D 638.

21: 2023/05593. 22: 2023/05/24. 43: 2024/07/02 51: C07D A61K A61P

71: LG CHEM, LTD.

72: HAM, Jin Ok, LEE, Ho Yeon, KIM, Ji Yoon, KIM, Sung Won, CHUN, Seul Ah, LEE, Sang Dae, PARK, Jong Won

33: KR 31: 10-2020-0142398 32: 2020-10-29 54: CRYSTALLINE FORM III OF MELANOCORTIN RECEPTOR AGONIST COMPOUND AND METHOD FOR PREPARING SAME 00: -

The present invention relates to a crystalline form III of a compound represented by chemical formula 1, a method for preparing same, and a pharmaceutical composition comprising same. The crystalline form III of the compound represented by chemical formula 1 of the present invention can be characterized by an XRD pattern, a DSC profile, and/or a TGA profile.



21: 2023/05594. 22: 2023/05/24. 43: 2024/07/04 51: C07D A61K A61P 71: LG CHEM, LTD. 72: HAM, Jin Ok, LEE, Ho Yeon, KIM, Ji Yoon, KIM,

Sung Won, CHUN, Seul Ah, LEE, Sang Dae, PARK, Jong Won 33: KR 31: 10-2020-0142396 32: 2020-10-29

54: CRYSTALLINE FORM I OF MELANOCORTIN RECEPTOR AGONIST COMPOUND, AND METHOD FOR PREPARING SAME 00: -

The present invention relates to an amorphous compound represented by chemical formula 1, a preparation method therefor, and a pharmaceutical composition comprising same. The amorphous compound represented by chemical formula 1 according to the present invention may be characterized by an XRD pattern, a DSC profile, and/or a TGA profile.



21: 2023/05595. 22: 2023/05/24. 43: 2024/07/04 51: C07D A61K A61P

71: LG CHEM, LTD.

72: HAM, Jin Ok, LEE, Ho Yeon, KIM, Ji Yoon, KIM, Sung Won, CHUN, Seul Ah, LEE, Sang Dae, PARK, Jong Won

33: KR 31: 10-2020-0142397 32: 2020-10-29 54: CRYSTAL TYPE II OF MELANOCORTIN RECEPTOR AGONIST COMPOUND AND METHOD FOR PREPARING SAME 00: -

The present invention relates to a crystal type II of a compound represented by chemical formula 1, a method for preparing same, and a pharmaceutical composition including same. The crystal type II of the compound represented by chemical formula 1 of the present invention can be characterized by an XRD pattern, a DSC profile, and/or a TGA profile.



21: 2023/05603. 22: 2023/05/24. 43: 2024/07/09 51: A01K 71: Ynsect

72: COMPARAT, Solène, SARTON DU JONCHAY, Thibault, ESCALANTE, Pedro 33: FR 31: 2012795 32: 2020-12-07 54: TRAY FOR FARMING INSECTS, SUITABLE FOR INDUSTRIAL-SCALE FARMING 00: - The invention relates to a tray for farming insects, comprising a solid bottom (2) that defines a substantially horizontal plane, and side walls (4) defining a peripheral enclosure (5) of the tray. The bottom (2) and the side walls (4) define a tray body. The tray comprises feet (6) that extend vertically from the bottom (2) of the tray to a level above the enclosure (5) of the tray. The feet make it possible for an identical insect farming tray to be stacked on top of the farming tray while creating a space between the bottom (2) of said identical tray and the enclosure (5) of the tray. The body of the tray has no sharp edges in order to limit disruption to a laminar air flow flowing around the tray. The invention also relates to a stack of multiple trays of this type.



21: 2023/05642. 22: 2023/05/25. 43: 2024/07/30 51: C12N; A61K; A61P; C07K; C12P 71: ASTELLAS PHARMA INC., NATIONAL CANCER CENTER 72: TENDA, YOSHIYUKI, YURI, MASATOSHI, YAMAJUKU, DAISUKE, TSUTSUMI, TAKESHI, KUSUZAKI, YUKO, SASAKI, HIROKI, CHIWAKI, FUMIKO, KOMATSU, MASAYUKI 33: JP 31: 2020-189988 32: 2020-11-16 54: ANTI-TSPAN8/ANTI-CD3 BISPECIFIC ANTIBODY AND ANTI-TSPAN8 ANTIBODY 00: -

An objective of the present invention is to provide an anti-TSPAN8/anti-CD3 bispecific antibody and an anti-TSPAN8 antibody usable in treatment or prevention in human. A human monoclonal antibody producing mouse was immunized with a peritoneal disseminated cancer cell isolated from a patient, to obtain an antibody 16B11 and an antibody 16B12 that selectively bind to a peritoneal disseminated cancer cell. These antibodies were anti-TSPAN8 antibodies that bind to the region from

amino acid positions 126 to 155 of TSPAN8 and exhibited strong binding activity to

TSPAN8 expressed in the peritoneal disseminated cancer cell. Further, an anti-TSPAN8(16B11)-anti-CD3 bispecific antibody produced based on the sequence of 16B11 exhibited a cytotoxic activity against the TSPAN8-expressing cancer cell in vitro, exerted an anti-tumor action on TSPAN8-expressing cancer cell-bearing mice in vivo, and extended the lifetime of peritoneal dissemination model mice.



# 21: 2023/05643. 22: 2023/05/25. 43: 2024/07/10 51: G06F; H04R

71: SAMSUNG ELECTRONICS CO., LTD. 72: PARK, YOUNGBAE, LEE, MYUNGCHEOL, KIM, KIWON, KIM, TAEEON, YOON, CHANGSHIK, CHO, JOONRAE

33: KR 31: 10-2021-0004804 32: 2021-01-13 54: SPEAKER MODULE STRUCTURE AND ELECTRONIC DEVICE COMPRISING SAME 00: -

A speaker module structure, according to various embodiments of the present disclosure comprises: a first structure; a second structure couplable with the first structure; and a speaker coupled to at least one of the first structure and the second structure, wherein the second structure includes at least one groove forming a resonance space by the coupling between the first structure and the second structure, wherein the resonance space is connected to the speaker, and is injected with an adsorption material, and when the first structure and second structure are coupled together, one end of the groove may include an opening formed as a closed loop including a portion of the first structure and a portion of the second structure.



21: 2023/05644. 22: 2023/05/25. 43: 2024/07/10 51: C07C

71: ENERKEM INC.

72: LYNCH, DAVID, KUMAR, PRASHANT, AHMED, IMTIAZ

#### 33: US 31: 63/118,103 32: 2020-11-25 54: PROCESS FOR PRODUCTION OF ACETIC ACID AND ACRYLIC ACID FROM WASTE CARBON CONTAINING MATERIALS WITH REDUCED CARBON FOOTPRINT 00: -

It is provided a process of converting syngas resulting from the gasification of a carbonaceous material into acetic acid and acrylic acid comprising converting the syngas into methanol and separating the methanol into a first and second stream, carbonylation of the first stream of methanol producing methyl acetate, hydrolyzing the methyl acetate to obtain acetic acid, oxidizing the second stream of the methanol into formaldehyde in a gas phase reaction, and reacting by aldol condensation the formaldehyde and acetic acid to produce acrylic acid. Particularly, the first stream of methanol is dehydrated to produce dimethyl ether (DME) and the DME is further contacted with syngas under an iodide-free environment to produce the methyl acetate by carbonylation, and subsequently acetic acid using a reactive distillation column.



21: 2023/05646. 22: 2023/05/25. 43: 2024/07/10 51: C07D; A61K; A61P; C07F 71: A&J SCIENCE CO. LTD. 72: HWANG, HEE-JONG, SON, YOUNG-JIN, KIM, DAHYUN, LEE, JUSUK, CIUFOLINI, MARCO 33: KR 31: 10-2021-0158467 32: 2021-11-17 33: KR 31: 10-2020-0155605 32: 2020-11-19 54: NOVEL COMPOUND, PREPARATION METHOD THEREOF, AND ANTIBIOTIC COMPOSITION COMPRISING SAME 00: -

The present invention provides a novel compound, a solvate thereof, a hydrate thereof, a prodrug thereof, an isomer thereof or a pharmaceutically acceptable salt thereof, a preparation method thereof, and an antibiotic composition comprising same. The novel compound of the present invention having excellent antimicrobial activity is very useful for preventing and treating a bacterial infection.

21: 2023/05648. 22: 2023/05/25. 43: 2024/07/10 51: E02F; G01N; B29C 71: METALOGENIA RESEARCH & TECHNOLOGIES S.L. 72: JORDI, MARQUEZ LLINAS, ALBERT, GIMENO TORDERA, VICENT, FERRÁNDIZ BORRAS, NIL, VALLVÉ BERTRAN 33: EP 31: 20382939.5 32: 2020-10-28 33: EP 31: 21382164.8 32: 2021-02-25 54: PROTECTIVE CAPSULES FOR EARTH MOVING MACHINES HAVING A SLOT ANTENNA 00: -

A capsule for protecting an electronic device for an earth moving machine, the capsule comprising walls enclosing an inner chamber configured for housing an electronic device or components thereof, the capsule comprising a slot antenna arranged in at least one of the walls, the at least one of the walls in which the slot antenna is arranged is a cover that can be removably coupled to one or more of the walls of the capsule. Also, a device for an earth moving machine comprising a capsule, a process of manufacturing a capsule, and a process of manufacturing a device for an earth moving machine.



21: 2023/05649. 22: 2023/05/25. 43: 2024/07/10 51: G03B; H04N 71: SAMSUNG ELECTRONICS CO., LTD.

72: HUR, DONGSUNG, YU, HYUNHO, YU, DONGHUN, YU, YOUNGBOK, HWANG, YOUNGJAE

33: KR 31: 10-2021-0002834 32: 2021-01-08 54: CAMERA MODULE AND ELECTRONIC DEVICE COMPRISING SAME 00: -

A camera module according to an embodiment may comprise: a camera housing; a lens assembly a part of which is accommodated in the camera housing and which includes a lens, the lens assembly being configured to move in the optical-axis direction of the lens in the camera housing; and a stopper member which is coupled inside the camera housing and at least a part of which restricts the range of movement of the lens assembly in the optical-axis direction, wherein: the stopper member comprises a first stopper member which restricts the range of

movement of the lens assembly in a first optical-axis direction and a second stopper member which restricts the range of movement of the lens assembly in a second optical-axis direction opposite to the first optical-axis direction; and the first and second stopper members are configured to provide damping when the lens assembly is brought into contact with the first and second stopper members.



21: 2023/05664. 22: 2023/05/24. 43: 2024/07/18 51: B60W

71: MAHINDRA AND MAHINDRA LIMITED 72: MEHATA; Puneet, KAMATH; Pavan, PALRAJ; Ganeshkumar, KULHADE; Abhay 33: IN 31: 202241029770 32: 2022-05-24 54: A MULTI-TERRAIN MODE SELECTING SYSTEM FOR A VEHICLE 00: -

The present disclosure relates to vehicular control systems, and envisages a multi-terrain mode selecting system (100) for a vehicle. The system (100) comprises a human-machine interface (HMI) unit (102) having a user enablable mode selector (104) for generating an input signal based on an input corresponding to a selected upcoming terrain mode. A plurality of sensing units (106A, 106B... 106n) monitors a set of critical parameters of the vehicle corresponding to the present terrain mode, and generate sensed signals. A plurality of control units (108A, 108B... 108n) receives the input signal and the sensed signal. The control units (108A, 108B... 108n) are configured to generate a plurality of actuating signals based on the input signal and

the sensed signal. Actuators (110A, 110B... 110n) connected to different components of the vehicle, receive the actuating signal to actuate the components to drive the vehicle in the selected upcoming terrain mode.



- 21: 2023/05692. 22: 2023/05/26. 43: 2024/07/10 51: G06Q
- 71: GVE LTD.

72: TAKAMATSU, KEITA, FUSA, KOJI, KUSAKABE, YU

#### 54: CURRENCY MANAGEMENT SYSTEM AND ELECTRONIC SIGNATURE DEVICE 00: -

[Problem] To provide a currency management system that includes a legal currency as a management target thereof and that has superior security. [Solution] A transaction information management device receives first Tr information from a user terminal. An account information management device receives second Tr information from the transaction information management device. The transaction information management device receives third Tr information from the account information management device. A currency information management device receives fourth Tr information from the transaction information management device. The transaction information management device receives fifth Tr information from the currency information management device. The transaction information management device transmits sixth Tr information to the user terminal. The transaction information management device stores the first to sixth Tr information in the transaction information management device itself. The account information management device and the currency information management device receive the first to sixth Tr information from the Tr information management device and store the first to sixth Tr information in the account information

management device and the currency information management device themselves. Tr is an abbreviation of transaction.



21: 2023/05693. 22: 2023/05/26. 43: 2024/07/10 51: B01D; B01J; C04B; F01N; B33Y 71: TECHNOLOGIES AVANCEES ET MEMBRANES INDUSTRIELLES 72: LESCOCHE, PHILIPPE, ANQUETIL, JÉRÔME 33: FR 31: FR2012009 32: 2020-11-23 54: ELEMENT FOR SEPARATING A LIQUID MEDIUM WITH HIGH PARIETAL SHEAR STRESS 00: -

The subject of the invention relates to a separating element comprising: - an inorganic one-piece rigid porous support (2) having, on one side, a first outer planar surface (3) and, on an opposite side, a second outer planar surface (4); - at least two circulation ducts (6) for the liquid medium that are formed in the porous support so as to each have a rectangular cross section; - at least one internal connection system for the distribution (10) of the liquid medium in a series of circulation ducts, and at least one internal connection system for the collection (12) of the retentate coming from the series of circulation ducts, the internal connection system for the distribution (10), the circulation ducts (6) and the internal connection system for the collection (12) being provided with at least one separating layer continuously deposited between the inlet (11) and the outlet (13) of the porous support; and a collection system (7) for the permeate that has passed through the separating layer or layers.



- 21: 2023/05696. 22: 2023/05/26. 43: 2024/07/10 51: C07C
- 71: ARKEMA FRANCE

72: LEC, JEAN-CHRISTOPHE, FREMY, GEORGES, DESSOMMES, ARNAUD 33: FR 31: FR2012665 32: 2020-12-04 54: METHOD FOR SYNTHESISING FUNCTIONALISED MERCAPTANS UNDER H2S PRESSURE 00: -

The present invention relates to a method for synthesising functionalised mercaptan, comprising the reaction between a compound of formula  $R_2$ -X-C\*H(NR<sub>1</sub>R<sub>7</sub>)-(CH<sub>2</sub>)<sub>n</sub>-G (II) and H<sub>2</sub>S in the presence of at least one enzyme chosen from among the sulfhydrylases; the reaction taking place in a reactor with a partial pressure of H<sub>2</sub>S in the gaseous headspace of the reactor of between 0.01 and 4 bar, preferably between 0.1 and 3 bar, for example between 0.1 and 2.5 bar, and more preferably between 0.25 and 2 bar, at the reaction temperature.

21: 2023/05745. 22: 2023/05/29. 43: 2024/07/10

- 71: AMONYX APS
- 72: MOLBECH, ALLAN
- 33: DK 31: PA 2020 70836 32: 2020-12-15
- 54: AIRFOIL WITH AUGMENTED LIFT 00: -

Disclosed is an airfoil having a leading edge and a trailing edge as well as a suction side and a pressure side, the suction side comprising an injector slot towards the leading edge. There may be at least one additional slot towards the trailing edge. The airfoil may be configured for an aircraft. Also disclosed is a method of operating an aircraft using such airfoil.

<sup>51:</sup> B64C



21: 2023/05798. 22: 2023/05/30. 43: 2024/07/10 51: F15B; F16K

71: CATERPILLAR INC.

72: O'NEILL, WILLIAM N, RISATTI, BRUNO L,

ZOLVINSKI, MICHAEL A, ERDMAN, BILL F, CHEN, DAYAO

33: US 31: 17/112,624 32: 2020-12-04 54: BALL FLOAT VENT VALVE 00: -

A ball float vent valve (30) for a hydraulic system (10) of a work machine (1) includes a valve body (32) having an inlet port (34), an outlet port (36) and an axial passageway (38) there-between. The passageway (38) may be defined by a cylindrical inlet chamber (40), a cylindrical outlet chamber (42) and a tapered seat (44) connecting the inlet chamber (40) and outlet chamber (42). The outlet chamber (42) may include an annular retaining groove (48) proximate the outlet port (36). A spherical float (46) may be positioned in the outlet chamber (42). The float (46) may be dimensioned to seal the passageway (38) when seated on the tapered seat (44). A retainer (50) positioned in the retaining groove (48) may include an outer crescent region (54) having a plurality of apertures (52), a center region (56) dimensioned to retain the float (46) in the outlet chamber (42), and a linking region (58) connecting the outer region (54) to the center region (56).



21: 2023/05826. 22: 2023/05/31. 43: 2024/08/27 51: D01F

71: MAHINDRA AND MAHINDRA LIMITED
72: GOVINDARAJ; Karthik, DEOLI; Manish Kumar, KOCH; Gregory, KV BALAJI, KAKANI;Phani
33: IN 31: 202241031268 32: 2022-05-31
54: UNFILLED POLYPROPYLENE COMPOSITION
AND A PROCESS FOR ITS PREPARATION
00: -

The present disclosure relates to an unfilled polypropylene composition and a process for its preparation. The unfilled polypropylene composition of the present disclosure can be used for light weight interior trims in an automobile industry. The unfilled polypropylene composition of the present disclosure helps in weight reduction and cost reduction of the automobile products. The process for the preparation of the unfilled polypropylene composition of the present disclosure is simple, environment friendly and cost effective.

21: 2023/05828. 22: 2023/05/31. 43: 2024/07/03 51: H04N 71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. 72: SÁNCHEZ DE LA FUENTE, Yago, BROSS, Benjamin, SKUPIN, Robert, HELLGE, Cornelius, SCHIERL, Thomas, WIEGAND, Thomas 33: US 31: 17/965,591 32: 2022-10-13 54: VIDEO CODING USING A CODED PICTURE BUFFER

Interpolation between explicitly signaled CPB (or HRD) parameters at selected bit rates is used to achieve a good compromise between CPB parameter transmission capacity and CPB parametrization effectiveness and may be, particularly, made in an effective manner.



21: 2023/05840. 22: 2023/05/31. 43: 2024/07/08 51: A61K A61P 71: LG CHEM, LTD. 72: LEE, Seok, Ju, PARK, Ah, Byeol, JEONG, Hui, Rak, HAM, Jinok, SHIN, Doosup 33: KR 31: 10-2020-0145750 32: 2020-11-04 54: METHOD FOR PREPARING CRYSTALLINE PARTICLES OF 1-(3-CYANO-1-ISOPROPYL-INDOLE-5-YL)PYRAZOLE-4-CARBOXYLIC ACID, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME

00: -

The present invention relates to a pharmaceutical composition comprising crystalline particles comprising a compound of chemical formula 1, comprising a compound of chemical formula 2 below by 0.2 weight% or less, or pharmaceutically acceptable salts thereof. The crystalline particles according to the present invention have optimal size, shape and distribution to be input to a preparation process of a finished preparation, have enhanced uniformity and flowability to increase the content uniformity in a preparation process of a finished pharmaceutical preparation, minimize damage during tabletting, and thus can be used as a raw pharmaceutical material suitable for a preparation.



21: 2023/05845. 22: 2023/05/31. 43: 2024/07/10 51: C07D; A61K; A61P 71: ASTELLAS PHARMA INC., KOTOBUKI PHARMACEUTICAL CO., LTD. 72: WATANABE, HIDEYUKI, KAMIKUBO, TAKASHI, KAMIKAWA, AKIO, WASHIO, TAKUYA, SEKI, YOHEI, OKUYAMA, KEIICHIRO, IKEDA, OSAMU, TOMIYAMA, HIROSHI, IWAI, YOSHINORI, NAKAMURA, AKIHIKO, MIYASAKA, KOZO 33: JP 31: 2020-197899 32: 2020-11-30 **54: HETEROARYL CARBOXAMIDE COMPOUND** 00: -

Provided is a compound which is useful as an active ingredient for a pharmaceutical composition for treating cancer associated with the activation of an immunocyte or cancer having resistance to an anti-PD-1 antibody/anti-PD-L1 antibody therapy. The present inventors have studied about a compound useful as an active ingredient for a pharmaceutical composition for treating cancer associated with the activation of an immunocyte or cancer having resistance to an anti-PD-1 antibody/anti-PD-L1 antibody therapy. As a result, it is confirmed that a heteroaryl carboxamide compound has a DGKZ (DGKzeta) inhibiting activity, and this confirmation leads to the accomplishment of the present invention. The heteroaryl carboxamide compound according to the present invention has a DGKZ inhibiting activity, and can be used as a therapeutic agent for cancer associated with the activation of an immunocyte or cancer having resistance to an anti-PD-1 antibody/anti-PD-L1 antibody therapy.

71: EW NUTRITION GMBH

<sup>21: 2023/05900. 22: 2023/06/02. 43: 2024/08/28</sup> 

<sup>51:</sup> A23K

72: MICHELS, Andreas, PERES DE CARVALHO, Maira, PUL, Uemit
33: EP 31: 20211633.1 32: 2020-12-03
54: FEED ADDITIVE

00: -

The invention pertains to a feed additive comprising conjugation inhibitor and a conjugation enhancer and/or a conjugation inert ingredient wherein the feed additive has an anti-oxidation activity of at least 1 TE.

21: 2023/06109. 22: 2023/06/09. 43: 2024/08/28 51: B01D; C07K

71: REGENERON PHARMACEUTICALS, INC. 72: ZHANG, Qian

# 33: US 31: 62/796,771 32: 2019-01-25 54: ONLINE CHROMATOGRAPHY AND ELECTROSPRAY IONIZATION MASS SPECTROMETER

00: -Methods and system for protein characterization using online chromatography and electrospray

ionization mass spectrometry are provided.



21: 2023/06152. 22: 2023/06/09. 43: 2024/07/24 51: H01P; H01Q

71: Huawei Technologies Co., Ltd.

72: JIN, Li, LU, Junfeng, GAO, Qiqiang, LIU, Xinming

# 54: ANTENNA AND COMMUNICATION DEVICE 00: -

The present application provides an antenna and a communication device. The antenna comprises a first signal line for transmitting a first signal, a second signal line, a combining unit, a combined transmission line, multiple first filter units, and multiple cavities; the first signal line and the second signal line are connected to the combined

transmission line by means of the combining unit; the multiple first filter units are respectively electrically connected to the first signal line and are respectively located in at least two different cavities; the first filter units are used for filtering to ensure the transmission quality of the first signal. According to the antenna provided by the present application, the multiple first filter units are distributed in different cavities, such that on one hand, each cavity is configured to be small, on the other hand, an interfering signal having a wide bandwidth can be filtered by the multiple first filter units or the interfering signal is filtered more completely, thereby improving a filtering effect, and then on the other hand, the cavities are cavities of the antenna itself, and no cavity is configured separately and additionally, thereby saving costs and the space of the antenna.



21: 2023/06302. 22: 2023/06/15. 43: 2024/08/27 51: A61K; A61P 71: ACUPHARM INTERNATIONAL PROPRIETARY

LIMITED 72: MARAIS, Johannes Francois, VAN

JAARSVELD, Jacobus Johannes, LaPORTA, James Clive Hurwitz

33: NL 31: 2027153 32: 2021-12-18 54: ANTI-CANCER COMPOSITION 00: -

The present invention relates to a composition for use in the treatment of cancer, the composition comprising an aqueously-soluble extract of curcumin and an aqueously-soluble extract of Sutherlandia frutescens. The present invention further relates to the method and use of such a composition in the treatment of cancer.



21: 2023/06411. 22: 2023/06/21. 43: 2024/08/29 51: A01N; C07K; C12R 71: QUORUM INNOVATIONS, LLC 72: BERKES, Eva, A., MONSUL, Nicholas, T., BOEHM, Frederick T. 33: US 31: 62/940,598 32: 2019-11-26 33: US 31: 63/016,336 32: 2020-04-28 54: NOVEL PROTECTIVE BARRIER COMPOSITIONS, AND USES THEREOF 00: -

The subject invention provides compositions and methods of enhancing the barrier function of surfaces and/or objects using biochemical-producing microbes and/or byproducts synthesized by the microbes. Preferred embodiments of the invention provide compositions, and the methods of using the same, comprising a Lactobacillus sp., and/or bioactive extracts thereof, derived from human microbiota and capable of growing in biofilm phenotype.



21: 2023/06529. 22: 2023/06/23. 43: 2024/07/23 51: C09D; C08G; E01F

71: TEAM SEGNAL S.R.L.

72: BIGNAMI, CLAUDIO GIUSEPPE 33: IT 31: 10202000028805 32: 2020-11-27 54: FAST CURE AQUEOUS PAINT COMPOSITION 00: -

The present invention relates to an aqueous paint composition comprising an acrylic polymer emulsion anionically stabilized at basic pH with a volatile base and containing self-crosslinking functionalities, an epoxy-polyamine adduct, and a high boiling glycolether. The film obtained by the aqueous paint composition according to the present invention as well as the use thereof in horizontal road marking are also described.



21: 2023/06569. 22: 2023/06/26. 43: 2024/07/09 51: A61K; A61P; C07B 71: Orano Med 72: SAIDI, Amal, WONG, Amy, TORGUE, Julien, STALLONS, Tania 33: EP(FR) 31: 21305061.0 32: 2021-01-19 54: PSMA-TARGETING CONJUGATE AND USES THEREOF 00: -

The invention relates to a PSMA-targeting conjugate or a pharmaceutically acceptable salt which may be used either for preparing a radiopharmaceutical or, once labeled with a radionuclide, as a radiopharmaceutical. The conjugate is of formula (I):  $A^1-L^1-Ch -L^2-A^2$  (I) wherein: Ch is a chelator,  $L^1$  and  $L^2$ , identical or different, are a linker whereas  $A^1$  and  $A^2$ , identical or different, are an ureabased PSMA ligand. The invention also relates to the uses thereof.

21: 2023/06586. 22: 2023/06/27. 43: 2024/08/29 51: A24F 71: VAN WYK, Daniel Nicolaas 72: VAN WYK, Daniel Nicolaas 33: ZA 31: 2022/05956 32: 2022-05-30 54: PNEUMATIC DEVICE

#### 00: -

This invention relates to a pneumatic device for propelling powdered tobacco or snuff into nostrils of a user. The pneumatic device includes a pressurised gas source which is in fluid flow communication with a discharge means via a fluid flow passage for

operatively receiving the powdered substance. The pneumatic device further includes a flow restricting means located in the fluid flow passage for selectively restricting the flow of pressurised gas from the pressurised gas source to the discharge means. In use, when the flow restricting means is actuated, pressurised gas is allowed to flow from the pressurised gas source to the discharge means via the fluid flow passage where the pressurised gas propels the powdered substance out of the discharge means and into the nostrils of the user.



21: 2023/06812. 22: 2023/07/04. 43: 2024/07/05 51: H02P; H02K 71: ABB SCHWEIZ AG 72: ZHELEV, DEYAN, BAECHLE, MATTHIAS, MEIER, GEORG 33: EP 31: 21153278.3 32: 2021-01-25 54: DE-EXCITING SYSTEM FOR INDUCTIVE CIRCUITS 00: -

A de-exciting system (15) for dissipating energy from an inductive circuit (1, 2) that comprises at least one coil (1), adapted to be attached to said inductive circuit (1, 2) and comprising: • a series connection of a discharge resistor (4) and a unidirectional discharge switching element (6), said series connection being arranged such that, if the deexciting system (15) is attached to the inductive circuit (1, 2) and the discharge switching element (6) is in a conducting state, a closed conducting path comprising the coil (1) and the discharge resistor (4) is formed; • a unidirectional bypass switching element (5) that is connected in parallel to the discharge resistor (4) such that, if the de-exciting system (15) is attached to the inductive circuit (1, 2) and both the discharge switching element (6) and the bypass switching element (5) are in a conducting state, a closed conducting path comprising the coil (1), the discharge switching element (6), and the bypass switching element (5) is formed; and control means configured to: in a first de-excitation phase, switch both the discharge switching element (6) and the bypass switching element (5) into a conducting state, and in a second de-excitation phase, switch the bypass switching element (5) into a non-conducting state, while keeping the discharge switching element (6) in the conducting state.



21: 2023/06838. 22: 2023/07/05. 43: 2024/08/30 51: A61K; A61L; A61M; A61N 71: ALPHA TAU MEDICAL LTD. 72: ARAZI, Lior, DEN, Robert, B, SCHMIDT, Michael, MAGEN, Ofer, KELSON, Itzhak, GAT, Amnon 33: US 31: 63/126,070 32: 2020-12-16

54: DIFFUSING ALPHA-EMITTERS RADIATION THERAPY WITH ENHANCED BETA TREATMENT 00: -

An interstitial source (21) including a base (22) suitable for implanting in a tumor and alpha emitting atoms (26) attached to the base (22), with a

concentration of at least 6  $\mu$ Ci per centimeter length. The alpha emitting atoms (26) are attached to the base, with a desorption probability upon radioactive decay of not more than 30%.



21: 2023/06888. 22: 2023/07/07. 43: 2024/08/30 51: C07K; G01N

71: REGENERON PHARMACEUTICALS, INC. 72: XU, Xiaobin

# 33: US 31: 62/798,750 32: 2019-01-30 54: METHOD OF CHARACTERIZATION OF VISIBLE AND/OR SUB-VISIBLE PARTICLES IN BIOLOGICS

00: -

A method for characterizing or quantifying one or more proteins in visible and/or sub-visible particles formed in a sample by detecting the at least one visible or sub-visible particle in the sample, isolating and capturing the at least one visible or sub-visible particle to identify a presence of a protein, and using a mass spectrometer to characterize the protein.



21: 2023/06889. 22: 2023/07/07. 43: 2024/08/30 51: G01N

71: REGENERON PHARMACEUTICALS, INC. 72: WANG, Shunhai, YAN, Yuetian 33: US 31: 62/796,794 32: 2019-01-25 33: US 31: 62/852,591 32: 2019-05-24 54: QUANTITATION AND IDENTIFICATION OF DIMERS IN CO-FORMULATIONS 00: -

Methods and system for identification of dimer species using online chromatography and electrospray ionization mass spectrometry are provided. Also provided are methods and system for quantitation of heterodimer species using immunoprecipitation and liquid chromatographymass spectrometry.



- 21: 2023/06986. 22: 2023/07/11. 43: 2024/08/27 51: E21B: E21C
- 71: JOY GLOBAL UNDERGROUND MINING LLC 72: CRESSMAN, Toby J.

33: US 31: 63/388,454 32: 2022-07-12

54: OFFBOARD MONITORING SYSTEM

00: -

A system and method for offboard monitoring are provided. The system may include a remote monitoring vehicle including one or more sensors, a drive mechanism for driving the remote monitoring vehicle; and a controller coupled to the one or more sensors and the drive mechanism. The controller may be configured to navigate the monitoring vehicle along a predetermined path of the industrial site; receive sensor data relating to an equipment; determine a state of the equipment based on the sensor data; determine whether the state of the equipment meets a threshold state for maintenance; and generate an alert indicating a maintenance event for the equipment when the state of the equipment meets the threshold state for maintenance.



21: 2023/07145. 22: 2023/07/17. 43: 2024/08/19 51: C25B

71: Heraeus Precision Metals GmbH & Co. KG 72: GEBAUER, Christian, KEMMER, Martina, GASTEIGER, Hubert, BERNT, Maximilian, HARTIG-WEISS, Alexandra, BYRKNES, Jan, EICKES, Christian, GHIELMI, Alessandro 33: EP 31: 20217035.3 32: 2020-12-23 54: IRIDIUM-CONTAINING CATALYST FOR WATER ELECTROLYSIS

00: -

The invention relates to a particulate catalyst, containing: - a support material, - an iridiumcontaining coating which is provided on the support material and which contains iridium oxide, an iridium hydroxide, or an iridium hydroxide oxide, wherein the support material has a BET surface area ranging from 2 m2/g to 50 m2/g, and the iridium content of the catalyst satisfies the following condition: (1.505 (g/m2) x BET) / (1 + 0.0176 (g/m2) x BET) = Ir-G = (4.012 (g/m2) x BET) / (1 + 0.0468 (g/m2) x BET), where BET is the BET surface area of the support material, in m2/g, and Ir-G is the iridium content, in wt.%, of the catalyst.



21: 2023/07230. 22: 2023/07/19. 43: 2024/08/21 51: A61B; A61N 71: ALPHA TAU MEDICAL LTD. 72: MAGEN, Ofer, ZELLNER, Or, MAKOVSKY, Sraya, KELSON, Itzhak 33: US 31: 63/159,499 32: 2021-03-11 **54: RADIOTHERAPY APPLICATOR** 00: -

An applicator for delivery of radiotherapy seeds to a tumor of a patient through an elongate needle (104).

The elongate needle comprises a needle handle (204) and a needle tube having a given length for insertion into the patient. The applicator comprises an elongate applicator tube (106) designed to pass through the elongate needle, wherein the elongate applicator tube defines an internal channel which receives one or more radiotherapy seeds (110), an applicator handle (210) configured to be attached to the needle handle (204); and a stylet (108) within the elongate applicator tube. The elongate applicator tube is longer than the elongate needle.



21: 2023/07290. 22: 2023/07/21. 43: 2024/08/21

51: A61K; C07D; A61P 71: NOVARTIS AG 72: BONAZZI, Simone, CERNIJENKO, Artiom, COBB, Jennifer Stroka, DALES, Natalie Alysia, DEWHURST, Janetta, HESSE, Matthew James, JAIN, Rama, KERRIGAN, John Ryan, MALIK, Hasnain Ahmed, MANNING, James R, O'BRIEN, Gary, PATTERSON, Andrew W, THOMSEN, Noel Marie-France, TING, Pamela YF 33: US 31: 63/161,139 32: 2021-03-15 33: US 31: 63/164,130 32: 2021-03-22 54: PYRAZOLOPYRIDINE DERIVATIVES AND USES THEREOF



The present disclosure relates to compounds of formula (I) and pharmaceutical compositions and their use in reducing Widely Interspaced Zinc Finger Motifs (WIZ) expression levels, or inducing fetal hemoglobin (HbF) expression, and in the treatment of inherited blood disorders (e.g., hemoglobinopathies, e.g., betahemoglobinopathies), such as sickle cell disease and beta-thalassemia

21: 2023/07291. 22: 2023/07/21. 43: 2024/08/21 51: C10L 71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. 72: BENNIS, Hanane Belmokaddem, SHEA, Timothy Michael 33: US 31: 63/153,097 32: 2021-02-24 54: HIGH OCTANE UNLEADED AVIATION GASOLINE

# 00: -

An unleaded aviation fuel composition having a MON of at least 99.6, sulfur content of less than 0.05 wt%,CHN content of at least 97.2 wt%, less than 2.8 wt% of oxygen content, a T10 of at most 75°C, T40 of at least 75° C, a T50 of at most 105° C, a T90 of at most 135°C, a final boiling point of less than 190°C, an adjusted heat of combustion of at least 43.5 MJ/kg, a vapor pressure in the range of 38 to 49 kPa, comprising from 20 vol.% to 35 vol.% of toluene having a MON of at least 107; from 2 vol.% to 10 vol.% of aniline; from above 30 vol% to 55 vol% of at least one alkylate oralkyate blend having an initial boiling range of from 32°C to 60°C and a final boiling range of from 105°C to140°C, having T40 of less than 99°C, T50 of less than 100°C, T90 of less than 110°C, the alkylate or alkylate blend comprising isoparaffins from 4 to 9 carbon atoms, 3-20 vol% of C5 isoparaffins, 3-15 vol% of C7 isoparaffins, and 60-90 vol% of C8 isoparaffins, based on the alkylate or alkylate blend, and less than 1 vol% of C10+, based on the alkylate or alkylate blend; at least 8 vol% of isopentane in an amount sufficient to reach a vapor pressure in the range of 38 to 49 kPa; from 0.1 vol% to 10 vol%, preferably from 1 vol% to 8 vol%, of a straight chain alkyl acetate having a straight chain alkyl group having 4 to 8 carbon atoms; and from 0.1 vol% to 10 vol%, preferably from 2 vol% to 8 vol%, of a branched chain alcohol having from 4 to 8 carbon atoms, provided that the branched chain does not contain any t-butyl groups; wherein the volume ratio of straight chain alkyl actetate to branched chain alcohol is in the range of 3:1 to 1:3; and wherein the fuel composition contains less than 15 vol% of C8 aromatics. As well as meeting the requirements of the ASTM D910 specification, the unleaded aviation fuel compositions of the present invention have improved octane properties.



21: 2023/07369. 22: 2023/07/25. 43: 2024/09/03 51: B65D 71: CRAMER, Brent 72: CRAMER, Brent **54: CLOSURE DEVICE** 00: -

A closure device which has a base with a first and second spaced apart tabs, each with a respective first aperture and a locking member which is engageable with the first apertures and which extends between the tabs.



21: 2023/07690. 22: 2023/08/03. 43: 2024/08/20 51: B07C

71: DANIELI & C. OFFICINE MECCANICHE S.P.A. 72: Nicola GAGLIARDI, Luca MATTINZIOLI, Andrea PASUT

#### 33: IT 31: 102021000003347 32: 2021-02-15 54: PLANT AND METHOD FOR CLASSIFYING SCRAP 00: -

The invention is related to a plant for the classification of scrap according to its chemical composition. The plant contains a shear (10; 110) adapted to cut scrap; downstream of the shear an analyser (28; 128) of the chemical composition of the sheared material; means of transport (20, 26; 109, 126, 140, 142, 144, 146), comprising a plurality of vibrating feeders and conveyors to transport the sheared material to the analyser (28; 128); and a discharge system (26; 32, 34, 36, 38; 150) adapted to divide the material analysed (30: 145) according to its chemical composition. The shearing (101) in a related method is followed by chemical analysis of the sheared material (107) which allows its division into fractions of sheared scrap with different chemical compositions. The invention helps to optimise the feeding of melting furnaces with different types of scrap which are distinguished, for example, by their copper content.



21: 2023/07767. 22: 2023/08/08. 43: 2024/07/18 51: F24B 71: PHILLIPS, Charles, Taylor 72: PHILLIPS, Charles, Taylor 33: ZA 31: 2022/03581 32: 2022-05-29 54: A STOVE 00: -

A stove which includes a housing defined by plurality of vertically orientated open ended tube elements arranged in a side by side manner, a lower and upper combustion zone defined inside the housing, an exhaust chamber defined upper the upper combustion zone, a grid locatable about the lower combustion zone for receiving combustible material, an ashtray located underneath the grid for keeping combusted material, a primary air inlet passage extending from the door element into the lower combustion zone and further arranged substantially in register with the ashtray, a secondary air inlet passage extending from the rear wall and into the upper combustion zone and an exhaust passageway defined about the rear wall and substantially in register with the exhaust chamber for channelling and releasing products of complete combustion into the atmosphere.



21: 2023/08182. 22: 2023/08/22. 43: 2024/09/11 51: B60B 71: SHARK WHEEL, INC.

71. SHARR WHELL, INC.

72: David M. PATRICK

#### 33: US 31: 17/189,645 32: 2021-03-02 33: US 31: 17/653,158 32: 2022-03-02 54: FARM IRRIGATION WHEEL 00: -

A wheel having a circular ring is provided. The circular ring has a rotational axis and an outer surface. A plurality of lugs is mounted in side-by-side positions on said outer surface of the circular ring. Each lug of the plurality of lugs has: a center rib, a first leg and a second leg, each leg extending from the center rib laterally and opposite of each other, and a lug plate adapted to connect the first leg to the center rib. The outermost point of each center rib may form a circular pattern that is coaxial with the rotational axis. The wheel may have a rim nested within said circular ring, said rim having a plurality of alternating scalloped protrusions, wherein said rim is configured to provide suitable clearance for tools during lug installation and removal while increasing the load capacity of said wheel.



21: 2023/08404. 22: 2023/08/31. 43: 2024/03/05 51: A61G 71: BOTES, FRANCOIS 72: BOTES, FRANCOIS 54: COFFIN TRANSPORT APPARATUS WITH REUSABLE HANDLES 00: -

The invention pertains to an apparatus designed for the ergonomic and efficient transportation of coffins. It encompasses a removably attachable elongated member tailored to engage with specific formations on a coffin. This member incorporates a holding formation for manual grip. Unique detachment mechanisms, such as quick-release latches, magnetic systems, or hooked ends, allow the elongated member to be separated from the coffin once it's positioned over a resting place. An additional embodiment introduces a secondary elongated member, sliding through circular formations, enabling two individuals to stand on either side of the coffin for transportation. This design ensures adaptability to various coffin dimensions and offers an enhanced ergonomic experience for carriers.



21: 2023/08523. 22: 2023/09/05. 43: 2024/08/08 51: B60D

71: BOSAL EMISSION CONTROL SYSTEMS NV 72: MASSA, Jorith, BALINT, Peter, VERREYDT, Jonathan

33: EP 31: 22195779.8 32: 2022-09-15 54: TRAILER COUPLING FOR VEHICLES 00: -

A trailer coupling for vehicles comprises a coupling arm with a coupling head arranged at a free end of the coupling arm for coupling a trailer to a vehicle. An opposite end of the coupling arm is attachable to a mounting structure, which mounting structure is arrangeable at the vehicle. The trailer coupling further comprises a locking mechanism comprising a locking arrangement for releasably locking the coupling arm to the mounting structure and also comprises a user interface for actuating the locking mechanism, wherein the user interface is a handwheel and comprises an extendable lever.



21: 2023/08543. 22: 2023/09/04. 43: 2024/09/11 51: C02F

71: GENIO SRL

72: Stefano CAVALLI, Marco TREVISAN 33: IT 31: 102021000002963 32: 2021-02-10 54: DESALINATION DEVICE AND PROCESS FOR RECOVERY AND VALORISATION OF CHLORIDES IN DILUTE SOLUTIONS 00: -

The invention relates to a device and a process for the desalination of NaCl solutions employing a threechamber electrochemical cell separated by relative ion exchange membranes, namely a succession of a cathode chamber (16; 116), a cation exchange membrane (28; 128), a central chamber (12; 112) for the saline solution, an anion exchange membrane (26; 126) and an anode chamber (14; 114). The oxidation of OH- and the reduction of H3O+ under the formation of OH- and H2 causes the passage of Na+ and CI- ions from the central chamber to the other chambers, thereby reducing the salt concentration. The feeding of the cathode chamber can be managed in a circuit with the insertion of a carbonation reactor (50) to reduce the concentration of NaOH and eliminate CO2 from the air. Under certain conditions, the chlorides entering the anode chamber undergo oxidation and the chlorine formed therein reacts with water to produce HCI and HCIO.



21: 2023/08544. 22: 2023/09/05. 43: 2024/09/09 51: A61M

- 71: UROMED KURT DREWS KG
- 72: Werner SCHWARZ

#### 33: DE 31: 10 2021 001 563.0 32: 2021-03-25 54: CATHETER VALVE FOR CONTROLLING THE FLUID FLOW OF A MEDIUM 00: -

The invention relates to a catheter valve for controlling the fluid flow of a medium, in particular a self-closing catheter valve, wherein a main body comprises: - an inlet and an outlet, - a flexible tube, as a cover, a slider which is movable in the longitudinal direction, and - at the inlet of the catheter valve, a stepped barbed part for connecting a supply line; and, in the interior of the main body that comprises two laterally opposite vertical chambers, the catheter valve has two contradirectional downward inclines on the longitudinally movable slider. The problem addressed by the invention is that of developing a catheter valve: 1. which is ergonomically effectively shaped, so that the patient can become accustomed to it even if they are bedridden for a long period of time; 2. since care costs are particularly significant for long-term patients, the catheter valve must be extremely economical; 3. since geriatric patients often have reduced motor function, the catheter valve must be operated extremely simply and using one hand; 4. since usage is often long-term, it must be possible to flush through and sterilise the entire valve without difficult disassembly, 5. unintended detachment of the catheter from the catheter valve is prevented, which avoids the risk of infection. This is achieved according to the invention in that the main

body that comprises two contradirectional downward inclines comprises two contradirectional inclined chambers for actuating and guiding two vertically movable magnets, which are arranged on two opposite sides of the valve hose and selectively close or open the passage of said valve hose, wherein an adapter can be inserted and fastened at the outlet of the catheter valve and (in addition to the longitudinally movable slider) results in a permanent open position of the catheter valve.



- 21: 2023/09002. 22: 2023/09/22. 43: 2024/06/27 51: H04N
- 71: Huawei Technologies Co., Ltd.
- 72: CHEN, Huanbang, YANG, Haitao

33: CN 31: 202110206726.0 32: 2021-02-24

54: MOTION VECTOR (MV) CONSTRAINT AND TRANSFORM CONSTRAINT IN VIDEO CODING 00: -

An apparatus, comprising: a memory; and a processor coupled to the memory and configured to obtain candidate MVs corresponding to neighboring blocks that neighbor a current block in a video frame, generate a candidate list of the candidate MVs, select a final MV from the candidate list, and apply constraints to the final MV or transform to obtain a constrained MV. An apparatus, comprising: a memory; and a processor coupled to the memory and configured to obtain candidate MVs corresponding to neighboring blocks that neighbor a current block in a video frame, generate a candidate list of the candidate MVs, apply constraints to the candidate MVs or transform to obtain constrained MVs, and select a final MV from the constrained MVs.



21: 2023/09301. 22: 2023/10/04. 43: 2024/09/04 51: A24B

71: ZANOPRIMA LIFESCIENCES LIMITED 72: BONDU, Vinod Kumar Reddy, MCCAGUE, Raymond, JACKSON, William, CASSELS-SMITH, George, NARASIMHAN, Ashok Srinivasan 33: GB 31: 2105305.3 32: 2021-04-14 54: SUPPORTED NICOTINE COMPOSITION 00: -

The present invention relates to a composition comprising nicotine and/or nicotine salt, and calcium silicate, wherein the composition is in a pouch, wherein the pouch is intended to be placed in the mouth.

21: 2023/09396. 22: 2023/10/09. 43: 2024/08/14 51: G06V

71: CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES 72: XU, Jie, HE, Ping, HOU, Liping, REN, Ying,

WANG, Dewang

33: CN 31: 2022112277147 32: 2022-10-09 54: METHOD AND SYSTEM FOR ASSESSING WATER ECOLOGICAL ENVIRONMENT QUALITY BASED ON FISH MONITORING 00: -

The present invention discloses a method and a system for assessing water ecological environment quality based on fish monitoring. The method provided herein includes: obtaining information about fishes in a preselected area of water body based on echo detection; acquiring images of fishes based on the information about fishes; inputting the images of fishes into a neural network model and identifying fish species in the images of fishes; obtaining a total number of fish species in preselected area of water body and deriving an integrity index of fishes based on the total number of fish species and conservative coefficients for the fish species; and determining water ecological environment quality level of preselected area of water body based on the integrity index of fishes. The present invention enables timely, accurately and comprehensively access to water ecological environment quality level in a water area for water ecological environment condition evaluation and early warning.



#### 21: 2023/09462. 22: 2023/10/10. 43: 2024/07/08 51: A61K; A61P; C07D

71: Shanghai Jemincare Pharmaceutical Co., Ltd, Jiangxi Jemincare Group Co., Ltd

72: ZHANG, Yong, CAO, Cheng, WAN, Qingwei, CHENG, Hongming, PENG, Jianbiao
33: CN 31: 202110265997.3 32: 2021-03-11
54: CRYSTAL FORM OF PYRIDINE NITROGEN
OXIDE COMPOUND AND USE THEREOF
00: -

A crystal form of a pyridine nitrogen oxide compound and the use thereof. Specifically, the present invention relates to a crystal form of a compound of formula (I), a pharmaceutical composition and the use thereof.



21: 2023/09480. 22: 2023/10/11. 43: 2024/08/08 51: B60K; F01N

71: LIEBERR-HYDRAULIKBAGGER GMBH
72: LOCHER, Thomas, GÖGGEL, Fabian
33: DE 31: 10 2022 126 255.3 32: 2022-10-11
54: DEVICE FOR TRANSFERRING EXHAUST
GAS BETWEEN A FRONT AND REAR CARRIAGE
OF A MOBILE WORKING MACHINE SEPARATED
BY AN ARTICULATED PIVOT JOINT

00: -

A device for transferring exhaust gas between front and rear carriages of a mobile working machine is disclosed that is separated by an articulated pivot joint, which working machine has a variable length pipe section for conducting exhaust gas, a first flexible hose cooperating with a first end portion of the pipe section for introducing exhaust gas therein, and a second flexible hose cooperating with a second end portion for discharging exhaust gas. A first cardan shaft provided in the first end portion. Its distal end is configured to be attached to a fastening section of the front or rear carriage of the working machine. A second cardan shaft provided in the second end region. Its distal end is configured to be attached to a fastening section of the front or rear carriage of the working machine. The first and second hose respectively receive the first and second cardan shaft.



21: 2023/09616. 22: 2023/10/13. 43: 2024/08/14 51: G06F 71: INTERNATIONAL BUSINESS MACHINES CORPORATION 72: GIAMEI, Bruce, SLEGEL, Timothy, BORNTRAEGER, Christian, OSISEK, Damian, HELLER, Lisa, GAERTNER, Ute, YOST, Christine, TZORTZATOS, Elpida 33: US 31: 17/335,224 32: 2021-06-01 54: RESET DYNAMIC ADDRESS TRANSLATION PROTECTION INSTRUCTION 00: -

An instruction is provided to perform a reset address translation protection operation when executed. Executing the instruction includes determining, by a processor, that an address translation protection bit in a specified translation table entry associated with a storage block is to be reset. Based on determining that the address translation protection bit is to be reset, executing the instruction includes resetting the address translation protection bit to deactivate write protection for the storage block. The resetting is absent waiting for an action by one or more other processors of the computing environment.



21: 2023/09832. 22: 2023/10/23. 43: 2024/09/03 51: A23F; G01N

71: NORTHWEST AGRICULTURE & FORESTRY UNIVERSITY

72: XU, Qingshan, ZHAO, Jing, YU, Youben, ZHANG, Keyi

#### 33: CN 31: 202311161401.0 32: 2023-09-08 54: METHOD FOR SIMULTANEOUSLY DETECTING 8 GLYCOSIDIC AROMA PRECURSORS IN TEA LEAVES 00: -

The present invention discloses a method for simultaneously detecting 8 glycosidic aroma precursors in tea leaves, which belongs to the technical field of agriculture. The present invention optimizes extraction parameters, liquid chromatography conditions and MS conditions for detecting tea samples, and assesses the linearity of standard curves, and limits of detection, recovery rates and reproducibility of the samples. Finally, a rapid detection method based on MRM mode is constructed, which can qualitatively and quantitatively analyze 8 glycosidic aroma precursors in tea leaves within 9 minutes.



#### 21: 2023/10142. 22: 2023/10/31. 43: 2024/05/02 51: A61G

71: SAFETY CARENET (PTY) LTD 72: KARSTENS, RIAAN, SMITH, JOHAN 54: STRETCHABLE PERMEABLE BARRIER SYSTEM 00: -

The present invention introduces a safety barrier system, designated , tailored for beds equipped with side rails, commonly encountered in settings such as hospitals, mental institutions, and care homes. The system incorporates a stretchable and permeable Barrier Body designed to envelop the bed, thus preventing unintentional falls while promoting visibility and ventilation. Integrated Fastening means, which include clips with slidable tensioning mechanisms, allow secure attachment to various bed dimensions, ensuring optimal tension and adaptability. In operation, the barrier seamlessly integrates with traditional bed side rails and foot rails, enhancing occupant safety by creating a

protective layer around the bed. This novel system marries safety with dignity, proposing a revolutionary approach to bed protection across diverse care environments.



21: 2023/10148. 22: 2023/10/31. 43: 2024/05/02 51: B62B 71: MATHE, LETLHOGONOLO 72: MATHE, LETLHOGONOLO

# 54: INTEGRATED SELF-LOCKING TROLLEY SYSTEM 00: -

A state-of-the-art shopping trolley system designed to revolutionize the shopping experience. The trolley features a lockable lid that can be smoothly transitioned between its retracted and deployed states, offering 5 secure storage. Integrated paypoints streamline the checkout process. Advanced connectivity allows users to interact with the trolley using mobile devices, enabling control over various functionalities such as lid movement and wheel locking. The trolley also boasts a Basket Base Adjuster for optimal space customization. User-friendly buttons provide 10 direct control over lid operations. A track system ensures seamless lid movement, blending functionality with design sophistication. This innovative trolley system emphasizes user convenience, enhanced security, and efficient space utilization, making shopping more user-friendly and technologically advanced.



21: 2023/10396. 22: 2023/11/08. 43: 2024/08/19 51: B01L; C12Q

71: BIOSENSE TECHNOLOGIES PVT. LTD 72: BANGA, Jatin Singh, SINGHVI, Nilesh Hukmichand, ALSHI, Trushal Balkrishna, CHATURVEDI, Rajat, PAL, Amit Rajendra Prasad 33: IN 31: 202221051731 32: 2022-09-09 54: A MINIATURE QUANTITATIVE POLYMERASE CHAIN REACTION APPARATUS 00: -

The present invention discloses a miniature quantitative polymerase chain reaction (qPCR) apparatus. A qPCR works on the principle of amplification of nucleic acids from a small sample. The efficiency and uniformity of the nucleic acid amplification 10 is therefore the key to an accurate Polymerase Chain Reaction. Thus, the largest challenges of a PCR apparatus are achieving accurate readings typically affected by the efficiency and uniformity of amplification especially when considering an apparatus designed for a smaller size and to be operated by non-skilled persons. The improved miniature quantitative polymerase chain reaction apparatus of the present 15 disclosure relates to a compact apparatus while ensuring accuracy in processing sample in real time. The miniature quantitative polymerase chain reaction apparatus of the present invention minimizes the interferences of light noise and errors in results caused by shifting of the optical filter(s) while offering a compact and easy to operate apparatus. The improved apparatus of the present invention therefore 20 overcomes the shortcomings of the existing qPCR apparatus.



21: 2023/10408. 22: 2023/11/08. 43: 2024/09/11 51: A61F

71: BEIJING SIGHTNOVO MEDICAL

TECHNOLOGY CO., LTD

72: ZHAO, Chan, XIA, Chaoran, SUN, Yueguang, LI, Chuan

# 33: CN 31: PCT/CN2021/093646 32: 2021-05-13 54: MEDICAL PENETRATION DEVICE AND SYSTEM

00: -

A medical puncturing device and a system comprising medical apparatuses configured to be assembled into the medical puncturing device. The device or system comprises: a syringe barrel (1) comprising a distal closed end and a proximal open end; an elastic movement unit comprising an actuation member (2) and a floating seal (3) inside the syringe barrel (1), where the actuation member (2) and a floating seal (3) are capable of forming an elastic connection such that the actuation member (2) and floating seal (3) are capable of moving forward and backward relative to one another; a hollow puncture needle (6) fixedly connected to the actuation member (2) and proximal to the floating seal (3), where the hollow puncture needle (6) comprises a needle distal opening (6a) and a needle body opening (6b); and a flowable composition lumen (7) enclosed by the syringe barrel distal closed end, an inner wall of the syringe barrel, and the floating seal (3). The device or system is configured to advance the hollow puncture needle (6) distally. Prior to use, the needle distal opening

(6a) can be proximal to the floating seal (3), within the floating seal (3), between the floating seal (3) and a distal seal (8) at the syringe barrel distal closed end, within the distal seal (8), or distal to the distal seal (8). The hollow puncture needle (6) is advanced through the floating seal (3) and the syringe barrel distal closed end, thereby connecting the flowable composition lumen (7), the needle body opening (6b), and the needle distal opening (6a). The present disclosure enables injection, access, expansion, and/or device implantation in an apparent or potential tissue void, cavity, or vessel, and is especially useful for achieving precise control of puncturing depth and needle placement, as well as steady injection and injection of a defined volume.



21: 2023/10617. 22: 2023/11/15. 43: 2024/06/27 51: B23K

71: State Nuclear Power Plant Service Company 72: YANG, Tao, YU, Zhaohui, LI, Qinghua, YE, Chen, SUN, Zhen, FENG, Lifa, XIE, Chenjiang, ZENG, Daoying, GUAN, Zhenggang, LI, Wei, YAN, Guohua, GUAN, Guang, CHEN, Xiaofei 33: CN 31: 202111298730.0 32: 2021-11-04 54: LIQUID POOL SIDE WALL WELDING DEVICE AND WELDING METHOD 00: -

A liquid pool side wall welding device and welding method. A cabin structure (10) of the liquid pool side wall welding device comprises a preparation cabin (11) and a liquid draining cabin (12) which are horizontally arranged, wherein the preparation cabin (11) is in communication with the liquid draining cabin (12) via an operating window (20), a welding apparatus is provided inside the preparation cabin (11), and the liquid draining cabin (12) is configured with an opening (121) that is in contact with the side wall in a sealing manner. A sealing plate (30) can automatically close or open the operating window (20) to isolate or communicate the preparation cabin (11) with the liquid draining cabin (12). A position holding structure (40) is configured to keep the cabin structure (10) at a predetermined depth in a liquid pool to attach the opening (121) to the side wall in a sealed manner. A liquid drain port (51) of a liquid draining structure (50) is provided in the bottom of the liquid draining cabin (12), a gas supply device is configured to convey a gas into the liquid draining cabin (12) to empty liquid therein when the opening (121) is attached to the side wall in a sealed manner and the operating window (20) is closed by the sealing plate (30), after the liquid in the liquid draining cabin (12) is emptied, a welding tool of the welding apparatus enters the liquid draining cabin (12) through the operating window (20) and performs welding and/or repair on a predetermined site of the side wall.



21: 2023/10714. 22: 2023/11/20. 43: 2024/08/14 51: B01J 71: IQATALYST B.V.

# 72: KAMSMA, Gerda, TERORDE, Robert, YARULINA, Irina

#### 33: EP 31: 21175230.8 32: 2021-05-21 54: A HYDROGENATION CATALYST AND ITS PRECURSOR COMPRISING NI, AL, AND A SUPPORT MATERIAL COMPRISING SIO2 00: -

The present invention relates to a specific hydrogenation catalyst and to its precursor. Further, the present invention relates to methods for preparation of the hydrogenation catalyst and its precursor and use thereof. In particular, the specific hydrogenation catalyst and its precursor comprise Ni, Al, and a support material comprising SiO2, wherein the Ni is supported on the support material, and wherein the precursor exhibits a specific peak maximum in the temperature programmed reduction.

21: 2023/11106. 22: 2023/11/30. 43: 2024/06/21 51: G01V; G06K; G06T

71: OHIO STATE INNOVATION FOUNDATION 72: DARRAH, Thomas, HOWAT, Ian, MOORTGAT, Joachim, WHYTE, Colin

#### 33: US 31: 63/182,624 32: 2021-04-30 54: SYSTEMS AND METHODS FOR IDENTIFYING SUBSURFACE HYDROGEN ACCUMULATION 00: -

EN) Systems, apparatuses, methods, and computer program products are disclosed for training an image analysis engine to identify surface features of the Earth consistent with subsurface hydrogen accumulation. An example method includes receiving, by communications circuitry, a training dataset of labeled images illustrating surface features consistent with subsurface hydrogen accumulation, the surface features consistent with subsurface hydrogen accumulation comprising ovoid surficial depressions. The example method further includes training, by a model generator and using the training dataset, an image classification model of the image analysis engine to identify whether new images contain surface features consistent with subsurface hydrogen accumulation. The example method further includes hosting the image classification model by the image analysis engine.



21: 2023/11117. 22: 2023/12/01. 43: 2024/06/04 51: A01G

71: SHANGHAI ACADEMY OF AGRICULTURAL SCIENCES

72: HUANG, Weiwei, LV, Weiguang, ZHOU, Wenzong

# 54: AN ECOLOGICAL GREEN WALL FOR WASTEWATER TREATMENT

00: -

Disclosed is an ecological green wall for wastewater treatment, the ecological green wall comprises an ecological wall system, a green wall plant infiltration system, and an internal drainage system. The invention presents an ecological green wall that is cost-effective, highly practical, and maximizes the ecological functionality of solid waste. This ecological green wall is used to treat scattered rural domestic sewage, effectively reducing water pollution while promoting resource utilization. Its significance in addressing rural domestic sewage holds great practical importance.

21: 2023/11211. 22: 2023/12/05. 43: 2024/06/28 51: C03C; E06B

71: Saint-Gobain Glass France

72: CAILLET, Xavier, PERRIN, Elsa Marie, MARTIN, Estelle, WILMET, Maxence 33: FR 31: 2106500 32: 2021-06-18 54: GLAZING COMPRISING A FUNCTIONAL

# COATING AND AN ABSORBING ELEMENT

The invention relates to a material comprising one or more transparent substrates and having a functional coating or functional layer able to act on solar radiation and/or infrared radiation. The material according to the invention comprises an absorbent element in the form of a layer, which in particular absorbs the solar radiation in the visible part of the spectrum and does so in a specific manner. In particular, the material according to the invention has an absorption profile with at least a spike centred between 480 and 549 nm, and a second spike centred between 630 nm and 779 nm. The inventors have discovered that the addition of a layer-form absorbent element exhibiting these two absorption spikes allows an improvement in thermal performance, particularly the selectivity, without having a great impact on the aesthetics of the glazing, so that in particular the transmission remains neutral. The absorbent element may be incorporated into a layer applied to one of the faces of the glazing; or may be incorporated into the matrix of one of the substrates or advantageously incorporated into the matrix of at least one laminating interlayer.



- 21: 2023/11428. 22: 2023/12/12. 43: 2024/06/28 51: C07C
- 71: ExxonMobil Chemical Patents Inc.
- 72: BAO, Xiaoying

33: US 31: 63/202,590 32: 2021-06-17

54: PROCESSES FOR DEHYDROGENATING ALKANE AND ALKYL AROMATIC HYDROCARBONS

## 00: -

Processes for converting an alkane to an alkene. In some embodiments, the process can include contacting a hydrocarbon-containing feed with a first catalyst that can include Pt or a second catalyst that can include Cr within a conversion zone to effect dehydrogenation of at least a portion of the hydrocarbon-containing feed to produce an effluent that can include one or more dehydrogenated hydrocarbons and molecular hydrogen. The process can also include contacting the effluent with a solid oxygen carrier disposed within the conversion zone to effect combustion of at least a portion of the

molecular hydrogen to produce a conversion product that can include the one or more dehydrogenated hydrocarbons and water. In some embodiments, contacting the feed with the first or second catalyst can occur in a first conversion zone and contacting the effluent with the solid oxygen carrier can occur in a second conversion zone.



21: 2023/11431. 22: 2023/12/12. 43: 2024/06/28 51: A01K

71: Egg-Chick Automated Technologies
72: MENGUY, Florent, GUYADER, Laurent
33: FR 31: FR2106517 32: 2021-06-18
54: MACHINE FOR INJECTING EGGS AND
METHOD FOR INJECTING AT LEAST ONE FLUID
SUBSTANCE INTO EGGS
00: -

The present invention relates to a method and an injection machine for injecting eggs, in which the machine injects eggs placed in trays, said machine comprising: a first injector set (14) for injecting a fluid substance into a first group of eggs in a first tray and at least one other injector set (16) for injecting a fluid substance into a different group of eggs in another tray, said machine also comprising a treatment line along which the injector sets are arranged, said injector sets (14, 16) being spaced apart from one another such that one injector set treats a single tray at a time, each injector set (14, 16) being configured to simultaneously treat the eggs to be injected in the corresponding egg group, said tray being stationary during the treatment of said egg group by the corresponding injector set, said machine also being configured so that the injector sets (14, 16) treat trays placed under these injector sets (14, 16) synchronously or substantially synchronously.



# 21: 2023/11437. 22: 2023/12/12. 43: 2024/08/29 51: C12N; C12Q

71: JIANGSU INSTITUTE OF POULTRY SCIENCES

72: LIU, Yifan, SHU, Jingting, ZHANG, Ming, ZOU, Jianmin, TU, Yunjie, SHAN, Yanju, JI, Gaige, JU, Xiaojun, SHENG, Zhongwei, JIA, Xiaoxu, ZHOU, Chenghao, LI, Yunlei

#### 33: CN 31: 2022102068408 32: 2022-03-04 54: CHICKEN LOW-DENSITY LIQUID SNP CHIP BASED ON TARGETED CAPTURE AND SEQUENCING AND USE THEREOF 00: -

The present invention discloses a chicken lowdensity liquid SNP chip based on targeted capture and sequencing and use thereof. The chip of the present invention comprises 5912 SNP sites, of which 2582 are significantly associated with economic traits of slaughter-type chicken breeds, which are derived from the whole-genome resequencing data of 33 representative local chicken breeds in China and related research, and are suitable for resource evaluation and genetic identification of local chicken breeds, as well as use in genetic improvement of the economic traits of the slaughter-type broiler breeds. At the same time, the chicken low-density liquid chip of the present invention can adjust target SNP sites by directly adding or removing probes, providing better flexibility than a solid-phase chip.

33: US 31: 63/218,147 32: 2021-07-02 54: CONVEYOR IDLERS REPLACEMENT SYSTEM 00: -

A conveyor idler replacement system in one example with an H-frame (support frame). The system including a base with a first vertical strut extending from the base, a second vertical strut

<sup>21: 2023/11526. 22: 2023/12/14. 43: 2024/06/28</sup> 

<sup>51:</sup> B65G

<sup>71:</sup> Conveyor Dynamics, Inc.

<sup>72:</sup> LAWSON, Bradley, JENNINGS, Andrew, PORTER, Brandt

extending substantially vertically from the base; each of the first vertical strut and second vertical strut comprising a first idler frame bracket on a first longitudinal side of the H-frame; a first idler frame extending between the first idler frame bracket on the first vertical strut and the first idler frame bracket on the second vertical strut; at least one idler attached to the first idler frame, the idler configured to rotate, configured to support a conveyor belt. Including a system for lifting the belt and replacing idler frames.



21: 2023/11536. 22: 2023/12/14. 43: 2024/06/28 51: E04B; F16B; F16M 71: Gripple Limited 72: WHITE, Samuel 33: GB 31: 2109800.9 32: 2021-07-07 **54: ANCHOR ASSEMBLY** 00: -

There is provided an anchor assembly (10) and an insertion device (14) for an anchor (12). The anchor assembly (10) comprises the anchor (14) mountable on a support (22), the anchor (14) comprising a body (16), the body (16) defining a cavity (18) and an opening (42). The assembly (10) further includes the insertion device (14) insertable into the cavity (18) via the opening (42). The insertion device (14) comprises a securing member (46) movable between securing and insertion positions.



21: 2023/11538. 22: 2023/12/14. 43: 2024/06/28 51: C07C

71: Battelle Memorial Institute, LanzaTech, Inc.

72: RAMASAMY, Karthikeyan K., GUO, Mond,

ROSIN, Richard Russell, KOCAL, Joseph Anthony 33: US 31: 17/387,725 32: 2021-07-28

# 54: METHOD AND SYSTEM EMBODIMENTS FOR CONVERTING ETHANOL TO PARA-XYLENE AND ORTHO-XYLENE

#### 00: -

Disclosed herein are embodiments of a method and system for converting ethanol to para-xylene. The method also provides a pathway to produce terephthalic acid from biomass-based feedstocks. In some embodiments, the disclosed method produces p-xylene with high selectivity over other aromatics typically produced in the conversion of ethanol to xylenes, such as m-xylene, ethyl benzene, benzene, toluene, and the like. And, in some embodiments, the method facilitates the ability to use ortho/para mixtures of methylbenzyaldehyde for preparing ortho/para xylene product mixtures that are amendable to fractionation to separate the para- and ortho-xylene products thereby providing a pure feedstock of para-xylene that can be used to form terephthalic anhydride and a pure feedstock of ortho-xylene that can be used for other purposes, such as phthalic anhydride.



- 21: 2023/11586. 22: 2023/12/18. 43: 2024/06/28
- 51: H02M
- 71: Innomotics GmbH
- 72: MIHALACHE, Liviu

#### 54: CELL BASED MULTILEVEL CONVERTER WITH MULTIPLE OPERATING MODES AND ASSOCIATED CONTROL METHOD 00: -

A multilevel converter (300, 310) includes a plurality of power cells (302, 304) receiving power from a source and supplying power to multiple output phases (U, V, W), wherein each output phase (U, V, W) includes a high voltage power cell (302) that is designed to output more than three voltage levels.



21: 2023/11657. 22: 2023/12/20. 43: 2024/06/25 51: H01M F42B

71: DIEHL ENERGY PRODUCTS GMBH, DIEHL DEFENCE GMBH & CO. KG.
72: PREIß, Walter, CLEMENT, Dominik, KORTHALS, Tobias, KUHN, Thomas
33: DE 31: 10 2022 004 875.2 32: 2022-12-22
54: PASSIVELY HEATED THERMAL BATTERY

00: -An energy source (10) for providing electrical energy (8) in an as-intended missile (2), which is set up to heat up at at least one structural section (16) during an as-intended flight (6), so that heat (22) is available there, contains at least one thermal battery (24) with at least one cell (26a-c), which contains an electrolyte (28), which, for providing the electrical energy (8) at the thermal battery (24), is to be heated by the input of heat (22), wherein at least one of the electrolytes (28) can be thermally coupled to the structural section (16) in order to transfer at least part of the heat (22) provided at the structural section (16) during flight (6) from there to the electrolyte (28).



21: 2023/11658. 22: 2023/12/20. 43: 2024/06/25 51: F42B

71: DIEHL DEFENCE GMBH & CO. KG.

72: KUGLER, Dietmar, MARX, Felicitas, SCHMITZ, Benjamin

#### 33: DE 31: 10 2022 004 814.0 32: 2022-12-20 54: INITIATION COMPONENT OF AN LE-EFI INITIATION MODULE 00: -

An EFI initiation component (2) contains a solid, mechanically relatively stable high-impedance substrate (4), a metal layer (10) applied directly and without gaps or holes onto the surface (6) of the latter in a bridge structure (12) having electrical terminal regions (14) with contact faces (16) and a vaporisable initiation bridge (18), a solid and mechanically relatively unstable plastic layer (24) forming a flyer (26), which is applied directly on the metal layer (10) and optionally on the surface (6) and which covers at least the initiation bridge (18) and a surrounding region (22) of the latter, wherein the plastic layer (24) is retreated by an annealing treatment after its application.



21: 2023/11660. 22: 2023/12/20. 43: 2024/06/25 51: G06T

71: Mahindra & Mahindra Limited 72: SHETTY; Shreshta, MUNIYANDI; Kartik Kumar, KAMATH; Pavan, MEHATA; Puneet 33: IN 31: 202241075572 32: 2022-12-26 54: A SYSTEM AND A METHOD FOR GESTURE CONTROLLED OUTSIDE REAR VIEW MIRRORS OF A VEHICLE

00: -

The present disclosure discloses a system(100) and a method(200) for gesture controlled outside rear view mirror. The system(100) comprises an in-cabin imaging device(108a) to capture live streaming video data of a cabin space of the vehicle; a gesture recognition device(102) to receive live streaming video data; a gesture recognition unit(110a) to detect landmarks corresponding to human palm and fingers in each image frame of the received live streaming video data using a set of gesture recognition rules; a gesture classification unit(110b) to perform time series analysis of detected landmarks using a set of classification rules for classifying detected landmarks as a gesture signal in the received live streaming video data; a gesture-to-network mapper(110c) to convert gesture signal into a controller area network (CAN) control signal; a body function device(112) to receive CAN control signal from the CAN and generate an ORVM motor control signal for gesture controlling of the ORVM.



21: 2023/11669. 22: 2023/12/20. 43: 2024/06/25 51: H02S

71: KVM Assets (Pty) Ltd

72: KINGWILL, Kayne Bremner

# 54: THEFT RESISTANT SOLAR END BRACKET 00: -

The invention provides a bracket configured to secure a solar panel to an end of a solar panel mounting rail. The bracket comprises a rectangular base plate, an end wall, extending perpendicularly upwards from a first end of the base plate, the top of the end wall terminating in an outward facing lip, configured to receive and retain a side edge of a solar panel, a cover plate, extending from the top of the end wall to the opposite end of the base plate and means for securing the bracket to the solar panel mounting rail.



# 21: 2023/11690. 22: 2023/12/20. 43: 2024/06/25 51: G06Q

71: NATIONAL PAYMENTS CORPORATION OF INDIA

72: KHAN, Arif, DUBEY, Ashutosh, GAURAV, Nishant, PALAGIRI, Sateesh 33: IN 31: 202121023338 32: 2021-05-25 54: A SYSTEM AND METHOD FOR FACILITATING RULE-BASED PARTIALLY ONLINE AND OFFLINE PAYMENT TRANSACTIONS

#### 00: -

The present disclosure discloses a system (100) and method (200) for facilitating registered users to perform rule-based partially online and offline payment transactions. A PSP tool (20), installed in an electronic device (10) associated with a registered user, executes a trusted application (104) in a secured storage area of the device (10). The trusted application (104), the PSP tool (20), and the PSP server (30) are enabled to communicate with an authentication engine (108) and a plurality of banking system servers (40,50) via an electronic switch (106) to facilitate the registered user to enroll and create (204a) a Unified-payments- Interface (UPI) lite account; load money (204b) into the created account from a registered financial account, wherein the money is stored as a balance value in the secured storage area; and utilize the balance value (204c) for performing the partially online and offline payment transactions without hitting the banking system servers (40,50).



21: 2023/11692. 22: 2023/12/20. 43: 2024/08/27 51: H01M 71: XIAMEN HITHIUM ENERGY STORAGE

TECHNOLOGY CO., LTD. 72: ZHOU, Wenyang 33: CN 31: 202211237137.X 32: 2022-10-08 54: CELL, BATTERY PACK, AND ELECTRICITY-CONSUMPTION DEVICE

# 00: -

A cell, a battery pack, and an electricity-consumption device are provided in the disclosure. The cell includes an electrolyte, a positive electrode sheet, a separator, and a negative electrode sheet. The electrolyte includes a cyclic organic solvent and a linear organic solvent. The electrolyte has a conductivity  $\sigma$  satisfying:  $\sigma = k\gamma \times \gamma 2 + kviscosity \times$ µ0 - kconductivity, where y represents a mass ratio of the cyclic organic solvent to the linear organic solvent in the electrolyte, ky is a constant for y, -3.1  $\leq$  ky  $\leq$  -2.5, kviscosity represents a constant for a viscosity of the electrolyte,  $4.6 \le k\gamma \le 5.8$ , kconductivity represents a correction coefficient for the conductivity of the electrolyte,  $0.16 \le ky \le 0.39$ , and µ0 represents a viscosity of the electrolyte at 25°C. The positive electrode sheet is at least partially immersed in the electrolyte. The separator is located at a side of the positive electrode sheet and at least partially immersed in the electrolyte. The negative electrode sheet is disposed at a side of the separator away from the positive electrode sheet and at least partially immersed in the electrolyte. In the disclosure, the electrolyte has a relatively high flow speed during injection of the electrolyte and can well wet a positive-electrode active material layer and a negative-electrode active material layer


21: 2023/11707. 22: 2023/12/20. 43: 2024/09/03 51: B01J

71: CHINA PETROLEUM & CHEMICAL CORPORATION, SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC

72: ZONG, Hongyuan, QI, Guozhen, GAO, Pan, LI, Xiaohong, CAO, Jing, YU, Zhinan, WANG, Yanxue, PENG, Fei

## 33: CN 31: 202110697978.8 32: 2021-06-23 54: FLUIDIZED BED REACTOR, AND DEVICE AND METHOD FOR PREPARING LOW-CARBON OLEFIN

00: -

A fluidized bed reactor, and a device and method for preparing low-carbon olefin. A reaction area of the fluidized bed reactor is sequentially, from bottom to top, provided with a raw material first distributor (8), a raw material second distributor (11), and a catalyst distributor (16). The catalyst distributor (16) is in communication with a catalyst second feed inlet (27). A dense-phase area (28) is formed between the raw material first distributor (8) and the raw material second distributor (11). The area where the catalyst distributor (16) is located is formed as a catalyst distribution area (29) in communication with the dense-phase area (28). At least one catalyst first feed inlet (24) is provided on the side wall of a reactor of the dense-phase area (28).



21: 2023/11716. 22: 2023/12/20. 43: 2024/08/02 51: H04L

71: BEIJING KNOWNSEC INFORMATION TECHNOLOGY CO., LTD.

72: ZHAO, Dianle

33: CN 31: 202211647878.5 32: 2022-12-21 54: INTRANET PENETRATION TEST CONTROL METHOD AND APPARATUS AND SAAS SERVER 00: -

The present disclosure provides an intranet penetration test control method and apparatus and an SAAS server, and relates to the technical field of network security. In the present disclosure, the SAAS server acquires an intranet penetration test request from an intranet host. According to to-betested network segments of a target internal local area network where the intranet host is located included in the intranet penetration test request, the intranet host is allocated with a target penetration test device for the to-be-tested network segments. After that, by invoking the target penetration test device, a penetration test tunnel between the target penetration test device and the intranet host is established, and the target penetration test device is controlled to perform a scanning penetration test for the to-be-tested network segments of the target internal local area network through the penetration test tunnel. Thus, a security test tunnel between the penetration test device and the internal local area network is established in the external network environment. Moreover, based on the established security test tunnel, the penetration test device is invoked to realize the effect of automated test of a

large number of IP addresses for the internal local area network.



#### 21: 2023/11741. 22: 2023/12/21. 43: 2024/06/25 51: F16B 71: A. RAYMOND ET CIE

72: HAMADENE, Sofien

33: FR 31: FR2300929 32: 2023-02-01

54: BI-INJECTION MOLDED HOUSING OF A

LOCKING CAP FOR A PHARMACEUTICAL VIAL

A bi-injection molded housing (20) of a locking cap (100) for a pharmaceutical vial, composed of: - a first material which forms an upper ring (21), legs (22) of which the upper ends are rigidly connected to the upper ring (21), and bridges (23) which connect the lower ends of the legs (22) in pairs, at least some bridges (23) comprising a flexible tab (24) intended to engage under a flange (202) of the vial (200), and - a second elastomer material which forms a stopper (25) configured to seal the vial (200) when the flexible tabs (24) engage under the flange (202), at least one inner face of the upper ring (21) made of the first material being rigidly connected to the stopper (25) made of the second material.



21: 2023/11756. 22: 2023/12/21. 43: 2024/06/25
51: G06N; G06Q
71: China Institute of Water Resources and Hydropower Research
72: ZHANG, Xiaolei, LIU, Ronghua, SUN, Chaoxing, LIU, Qi, ZHANG, Cheng, ZHAI, Xiaoyan, ZHOU, Rong, TU, Yong, ZHANG, Hongbin
33: CN 31: 2022116836183 32: 2022-12-27

## 54: METHOD AND SYSTEM FOR ANALYZING RISK DEGREE OF FLASH FLOOD DITCH BASED ON COMPREHENSIVE FEATURES OF MICRO-DRAINAGE BASIN

00: -

The present invention provides a method and system for analyzing the risk degree of a flash flood ditch based on comprehensive features of a microdrainage basin. The solution includes: acquiring ground model data and satellite acquisition data, generating a three-dimensional image map, extracting a river reach and a micro-drainage basin unit exceeding a catchment area threshold in the three-dimensional image map, and extracting basic attributes of the micro-drainage basin unit; extracting confluence characteristics of a drainage basin above the river reach according to the divided river reach data and micro-drainage basin unit data, wherein the confluence characteristics include a flood peak modulus and a confluence time; calculating a rainstorm factor index according to the river reach data and micro-drainage basin unit data; calculating a flow-generating factor index of an upstream drainage basin of the flash flood ditch; calculating a confluence factor index of the upstream drainage basin of the flash flood ditch; calculating a riskbearing body index of the flash flood ditch; and calculating the risk degree of the flash flood ditch. According to the solution, the risk degree of the flash flood ditch is quantitatively assessed through the comprehensive features of the micro-drainage basin, and the problem of insufficient predetermining capability of a monitoring method is effectively solved.



#### 21: 2023/11758. 22: 2023/12/21. 43: 2024/06/25 51: F02M

71: BERNARDO, Rommel

72: BERNARDO, Rommel

#### 33: PH 31: 12021050239 32: 2021-05-25 54: A UNIDIRECTIONAL FUEL NOZZLE FOR IMPROVING FUEL ATOMIZATION IN A CARBURETOR OR SIMILAR APPARATUS 00: -

The present invention generally relates to a device and method for improving fuel atomization in a carburetor or a similar apparatus. More particularly, the present invention provides a unidirectional fuel nozzle designed to improve the atomization of fuel injected into the fuel-air mixing chamber of a combustion engine. The fuel nozzle comprises a plurality of perforations through one half of the nozzle's cylindrical body and a plurality of dimples disposed on the outer surface of the other half of the cylindrical body. Each of the perforations connects the inner surface and the outer surface of the cylindrical body and terminates with an air turbulator, being defined by a hemispherical cavity at the outer surface. Similarly, each of the dimples is designed with an air turbulator, but does not protrude throughout the inner surface. These air turbulators, in response to the air pressure, create turbulence on the surface of the fuel nozzle that delays the separation of the air from the surface of the fuel nozzle resulting in a furthering the breaking of fuel droplets. In effect, this increases the atomization of the fuel that mixes with air that improves the fuel combustion efficiency of the engine. A higher fuel combustion efficiency is further achieved by the unidirectional, high-velocity ejection of fuel through the perforations towards the combustion engine.

21: 2023/11770. 22: 2023/12/21. 43: 2024/06/28 51: A61L; C08L; C12M 71: CUTISS AG 72: HOLENSTEIN, Claude Nicolas, RONFARD, Vincent, DITTRICH, Anna-Lena, GRAF, Siegfried, BEYER, Christian, KRASNOPOLSKI, Krzysztof, LEDROIT, Diane, WEDER, Gilles, ARNET, Roman, SCHMID, Noa, COEN, Charles 33: US 31: 63/212,662 32: 2021-06-20 54: TISSUE CULTURE VESSEL FOR PREPARATION OF COMPRESSED HYDROGEL SKIN GRAFTS AND RELATED METHODS AND SYSTEMS

00: -A tissue culture vessel including a graft support tray (200) and a box having a lid (400) and a base which engages and retains the tray. The tray has two operational states: a first operational state in which a floor of the tray is slightly raised with respect to a floor of the base and a second operational state in

## floor of the base and a second operational state in which the floor of said tray descends to contact the floor of the base.



21: 2023/11778. 22: 2023/12/21. 43: 2024/07/04 51: A01K; G06T; G06V 71: Egg-Chick Automated Technologies 72: BOUKAMCHA, Hamdi, CHAPELET, Thierry 33: FR 31: 2107408 32: 2021-07-08 54: IMPROVED METHOD FOR DETERMINING THE SEX OF A CHICK

#### 00: -

The invention relates to a method for determining the sex of a chick, comprising: determining (100) a region of interest in the image in which the feathers of a wing are visible, and running, on said region of interest, a classification model (400) trained on a training data set comprising images of male chick wings and female chick wings, in order to determine whether the chick is male or female.



21: 2023/11784. 22: 2023/12/21. 43: 2024/06/28

- 51: A01K; G01N
- 71: Egg-Chick Automated Technologies
- 72: TRUBUIL, Laura, LHARIDON, Devan
- 33: FR 31: 2105779 32: 2021-06-01

54: METHOD FOR INSPECTING, AS THEY PASS, EGGS PLACED IN CONTAINERS 00: -

The present invention relates to a method and apparatus for inspecting, as they pass, eggs placed in containers. According to the invention, during the movement of these containers (1) along a conveyor line, the following steps are carried out: triggering a data acquisition cycle on each passage of a downstream end of a container (1) through a first position, which is determined by a first position sensor (6) placed along said conveyor line, upstream and downstream positions being considered with reference to the direction of movement of the containers; then, for a data acquisition cycle of a container (1), detecting the passage of said downstream end of said container (1) through a least a second position determined by a second position sensor (7-8) placed along said conveyor line, a signal triggering thermal image acquisition being sent to a thermal camera (5) each time said downstream end of said container (1) is detected at at least a second position of the container of 1) the placed in its field or view, said second position sensors (7-8) being arranged with respect to one another to ensure an inspection of all of the eggs of the container (1) considered by said thermal camera (5) when a plurality of second sensors are employed. Furthermore, the data acquisition cycle of said container (1) are alses of a least one egg to be candled and the light flux passed through each corresponding egg is then analysed depending on the level of light flux absorbed by the egg, and said data thus acquired on the eggs of a container (1) are associated with a unique identifier of this container (1).



21: 2023/11785. 22: 2023/12/21. 43: 2024/06/28 51: F17C

71: Technip Energies France

72: LE DEVEHAT, Renaud, GURDZIEL, Pierre-Emmanuel, ZUELGARAY, Philippe 33: FR 31: 2105862 32: 2021-06-03 54: METHOD FOR PRODUCING ELECTRICITY BY MEANS OF AN INSTALLATION INTENDED TO BE PLACED IN A BODY OF WATER 00: -

The invention relates to a method for producing electricity by means of an installation (10) comprising: - a floating storage unit (16) comprising a main tank (28) for storing liquefied natural gas; a floating regasification and electricity production unit (18) comprising a regasification module (30) and an electricity production module (32); - a transfer unit (20) for transferring liquefied natural gas between the two units (16, 18). The production method comprises the following steps: - transfer of the liquefied natural gas from the main tank (28) to the regasification and electricity production unit (18) via the transfer unit (20); - regasification of the liquefied natural gas by the regasification module (30); transfer of the gas from the regasification module (30) to the electricity production module (32); production of electricity by the electricity production module (32).



21: 2023/11786. 22: 2023/12/21. 43: 2024/06/25 51: E04G; E21D

71: R.J. Goldspink Pty Limited

72: GOLDSPINK, Robert, SY, Billy, BLATTMANN, Lee

33: AU 31: 2021901580 32: 2021-05-26 54: IMPROVED PROP ASSEMBLIES

New prop assemblies, suitable for a range of uses, including in mines and construction, have a pole subassembly. The pole subassembly includes: - a first prop part and a second prop part, the first prop part being axially movable with respect to the second prop part; - a first extending means adapted to enable the first prop part to be moved in a first adjustment with respect to the second prop part; and either or both: - a second extending means adapted to enable the first prop part to be moved in a second adjustment with respect to the second prop part; and either or both: - a second extending means adapted to enable the first prop part to be moved in a second adjustment with respect to the second prop part; or - a third extending means, adapted to adjust a length of the prop assembly.



21: 2024/00017. 22: 2024/01/02. 43: 2024/07/04 51: B60Q

71: Frank PRONK

72: Frank PRONK

33: ZA 31: 2023/02176 32: 2023-02-22 54: SAFETY LIGHT CLUSTER FOR A VEHICLE 00: -

THIS invention relates to a safety light cluster for a vehicle. More particularly, the invention relates to a light cluster for a vehicle having integrated thereinto one or more additional warning lights for providing onlooking drivers or pedestrians with a visual warning of a change acceleration of the vehicle to which the safety light cluster is fitted. The safety light cluster includes a primary light, a turn signal light and a first acceleration warning light. The primary light, the turn signal light and the first acceleration warning light are housed in a cluster housing configured to fit within a cluster cavity and comprising a transparent or translucent section through which at least the lights are, in use, visible. The first acceleration warning light comprises a first

acceleration input for in use causing the first acceleration warning light to illuminate and warn onlooking drivers or pedestrians of a change in the vehicle's acceleration.



21: 2024/00024. 22: 2024/01/02. 43: 2024/07/04 51: G06F

71: SHENYANG UNIVERSITY OF TECHNOLOGY 72: Shuxin Liu, Yang Liu

54: EXTREME LEARNING MACHINE BASED METHOD FOR EVALUATING OPERATION STATE OF RAILWAY RELAY 00: -

Provided is an extreme learning machine based method for evaluating an operation state of a railway relay, which belongs to the technical field of railway relays. The present invention avoids paralysis of a whole power system caused by damage of the relay to a great extent, and greatly improves safety and reliability of the power system. The method includes: establishing a whole life test system of the railway relay to extract feature parameters affecting electrical life of the railway relay; constructing a random forest feature selection model to reduce a dimension of the feature parameters initially extracted; and constructing an extreme learning machine based model for evaluating a whole life state of the railway relay to train a network and verify accuracy of the model.



21: 2024/00025. 22: 2024/01/02. 43: 2024/07/04 51: A45D

- 71: Noam Drori
- 72: Noam Drori

33: US 31: 63/436,882 32: 2023-01-04 54: WEARABLE PASSIVE LICE ELIMINATOR 00: -

A system and method for treating head lice, and, more particularly, but not exclusively, to a system to trap and/or eradicate head lice from a subject passively.



21: 2024/00087. 22: 2024/01/02. 43: 2024/07/05 51: G06F 71: SYNTHARA AG

- 72: NAIR, Manu Vijayagopalan
- 33: EP 31: 21182210.1 32: 2021-06-28 54: NEURAL NETWORK ACCELERATOR

00: -

A computing element array system includes an array of computing elements connected by connections. Each computing element has a control circuit, a storage circuit, and an operation circuit and the connections each connect two computing elements. The storage circuit can input and store a data packet including a data value and a target-tag from one of the connections. The operation circuit can perform an operation on the data value to form a processed data value. The target-tag specifies a computing element to perform the operation on the data value. The control circuit can identify a computing element from the target-tag, enable the operation circuit to process the data value if the identified computing element matches the computing element, modify the data packet to understand the processed data value, and enable the output of the modified data packet on one of the connections.



- 21: 2024/00094. 22: 2024/01/02. 43: 2024/08/01 51: A24D
- 71: EMAMI, Iman
- 72: EMAMI, Iman

33: FR 31: 2105378 32: 2021-05-24

54: FORMULATION OF MICROPARTICLES BASED ON POLYPHENOLIC COMPOUNDS CAPABLE OF SCAVENGING FREE RADICALS PRESENT IN POLLUTED AIR AND IN SMOKE 00: -

The invention relates to the field of free radical scavengers. More particularly, the invention relates to microparticles associated with polyphenolic compounds capable of scavenging free radicals present in polluted air or in smoke, in particular smoke from cigarettes that are based on tobacco and/or cannabis.



21: 2024/00096. 22: 2024/01/02. 43: 2024/07/05 51: A61J; A61K

71: UNICHEM LABORATORIES LTD

72: SATHE, Dhananjay, MISHRA, Vivek, IYAPPAN, Saravanakumar, JOG, Sunil

33: IN 31: 202121030619 32: 2021-07-08 54: RECOMBINANT PROTEINS, COMPOSITIONS

AND METHODS OF STABILIZATION THEREOF

The present invention relates to recombinant proteins, compositions and methods of stabilization thereof. The invention specifically relates to the stable recombinant protein of SEQ ID NO: 1 and composition comprising recombinant protein of SEQ ID NO: 1. The invention further relates to method of preparing, storing and stabilizing recombinant protein of SEQ ID NO: 1 and its composition for longer shelf life.

21: 2024/00100. 22: 2024/01/02. 43: 2024/07/08 51: C03C

71: Huangshan Jingtemei New Material Co., Ltd. 72: ZHANG, Zhao, JIANG, Qian

33: CN 31: 202311027843.6 32: 2023-08-16 54: NEW SOLVENT-BASED DILUANT FOR GLASS SLURRY AND PREPARING METHOD 00: -

The present application discloses a new solventbased diluent for glass slurry and preparing method thereof, which belongs to the field of glass slurry. The solvent-based diluent includes the following raw material, calculated regarding mass fraction: Oilsoluble resin 4% ~ 26%, solvent 60% ~ 93%, adhesive 0.1% ~ 3%, thickener 0.1% ~ 6%, dispersing additive 0.1% ~ 6%, wetting additive 0.1% ~ 3%. The solvent-based diluent of the present application has the advantages of slow drying speed at room temperature and quick drying at high temperature, high covering, high solid content, long storage period, wide application range, lower odor than existing solvent-based diluent, and easy cleaning.

21: 2024/00106. 22: 2024/01/02. 43: 2024/08/08 51: B65B; G16H 71: 10XBETA 72: KRUGER, Frederick Zacharias 33: US 31: 63/218,704 32: 2021-07-06 54: SMART PILL DISPENSER PRESCRIPTION TREATMENT SYSTEM

00: -

A securable and trackable pill dispenser assembly, a system for tracking and administering medication with the pill dispenser assembly, and related methods are presented herein. The pill dispenser assembly can include a tamper resistant cartridge and a smart pill dispensing portion. The pill dispensing portion of the pill dispenser assembly can be configured to authenticate a patient to the pill dispenser assembly and dispense medication according to a prescription accessible to the dispenser portion. The patient may be able to separate the cartridge from the dispenser portion at the end of a prescription period and mate a new cartridge to the dispenser portion for a new prescription period. The cartridge can be filled by a dispensing pharmacy and/or a pharmaceutical partner and delivered to the patient. The cartridge can inhibit extraction of medication when not mated to the dispensing portion.



21: 2024/00136. 22: 2024/01/03. 43: 2024/07/08 51: E21D

71: China Railway No.3 Engineering Group Co.,
Ltd., China Railway No.3 Engineering Group Co.,
Ltd. The Fourth Engineering Co., Ltd.
72: Xiaoming Qi, Xiaohui Liu, Fei Jia, Dongwei
Wang, Shoudong Li, Yapeng An, Yanhua Cao,

Qichao Song, Jialong Huang, Zhichao Zhang, Erying Chen, Jidang Yang, Yongqiang Shi 54: TRANSLATING AND STATION-CROSSING TOOL FOR SHIELD MACHINE 00: -

The present disclosure discloses a translating and station-crossing tool for a shield machine, including horizontal oil cylinder assemblies and vertical oil cylinder assemblies, where the horizontal oil cylinder assembly is provided with a horizontal oil cylinder connected to a shield machine, and the horizontal oil cylinder can drives the shield machine to move horizontally; the vertical oil cylinder assembly is provided with a vertical oil cylinder, and a cylinder rod of the vertical oil cylinder can extend to the shield machine and lift the shield machine away from a base below the shield machine. According to the translating and station-crossing tool of the present disclosure, the horizontal oil cylinder and the vertical oil cylinder can drive the shield machine to move horizontally and vertically, and the base moves by contraction of the horizontal oil cylinder, so that the shield machine can translate and cross a station without damaging a track or building a steel plate, thereby achieving simple operation, improving construction efficiency, and saving manpower and material resources.

Perform welding reaction support Cut a reaction hole	
for each stroke, and allow a pin to pass through the hole	Pre-laid track

21: 2024/00180. 22: 2024/01/04. 43: 2024/08/08 51: H01R

71: JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD.

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72: WANG, Chao
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33: CN 31: 202110876044.0 32: 2021-07-30 33: CN 31: 202121766135.0 32: 2021-07-30 54: WIRING HARNESS MODULE AND COMBINED WIRING HARNESS 00: -

A wiring harness module and a combined wiring harness, the wiring harness module including a conductor portion and an insulation portion enclosing the conductor portion. The conductor portion includes at least one conductor, each of which is connected to at least one input conductive connector and at least one output conductive connector. An electrical connection of the conductors of different wiring harness modules is realized by connecting the input conductive connector and the output conductive connector of the different wiring harness modules. The combined wiring harness is formed by splicing a plurality of wiring harness modules in accordance with a preset splicing manner, and the conductors of the plurality of wiring harness modules being electrically connected to each other via the input conductive connector and the output conductive connector. In the present disclosure, each wiring harness module is connected to at least two other wiring harness modules, and each conductor is electrically connected to at least two other conductors, so that a complex conductive circuit is combined.



21: 2024/00210. 22: 2024/01/05. 43: 2024/07/10 51: E05B

71: ABUS AUGUST BREMICKER SÖHNE KG 72: WEIERSHAUSEN, BERND 33: DE 31: 102023100671.1 32: 2023-01-12 54: ELECTRONIC PADLOCK 00: -

An electronic lock has a lock body and a hoop that can be selectively locked to the lock body or released from the lock body. The lock body comprises an electromechanical locking device comprising a cam rotatable about an axis of rotation and the hoop comprises a first introduction section that can be introduced into the lock body and that has a lower holding section and an upper locking notch. The cam is configured, in a locking rotational position, to engage into the upper locking notch of the first introduction section and to lock the hoop to the lock body; in an unlocking rotational position, to release the upper locking notch and to hold the first introduction section at the lower holding section; and in a removal rotational position, to release the lower

holding section of the first introduction section and to thereby release the hoop for a complete detachment from the lock body.



21: 2024/00217. 22: 2024/01/05. 43: 2024/08/08 51: A01H; A01N; A61K 71: CLEVER BIOSCIENCE S.R.L. 72: MAZZEI, Emma, BREVIARIO, Elisa, ZUCCHINALI, Stefano, FRESCHI, Giorgio 33: IT 31: 102021000018530 32: 2021-07-14 54: SYNERGISTIC ANTIMICROBIAL COMPOSITIONS CONTAINING SELECTED PEPTIDES AND FATTY ACIDS 00: -

Novel synergistic compositions based on antimicrobial peptides and fatty acids are described. Antimicrobial peptides may be selected from the classes of defensins, thionins, heveins, snakins/GASA, knottins. Fatty acids may contain 4 to 22 carbon atoms and may be saturated, monounsaturated or polyunsaturated. The present peptides and fatty acids synergize, thereby providing a strong antifungal and antibacterial activity, with important applications, especially in the agronomic field.

21: 2024/00218. 22: 2024/01/05. 43: 2024/07/10 51: A23F

- 71: West Anhui University
- 72: Yubao Xu, Ping Yu, Miaomiao Huang
- 33: CN 31: 202310044522.0 32: 2023-01-30

## 54: A TEA ROLLING PROCESSING EQUIPMENT FOR TEA PRETREATMENT AND A PROCESSING METHOD THEREOF

#### 00: -

The invention relates to a tea rolling processing equipment and a processing method thereof, comprising a workbench and a first supporting plate fixed on one side of the workbench, a second supporting plate is installed on the first supporting plate through a lifting structure, a transmission rod is installed on the second supporting plate through the body and is rotated and connected with it, and the end of the transmission rod is installed with a rolling and rolling structure. The transmission rod is connected with the first driving structure installed on the second supporting plate, and the discharge box is installed on the first supporting plate through the guide component. The application drives the rolling component to move in the opposite direction of the circular motion while driving the rolling component to rotate around the transmission rod shaft. The tea is rolled through the combination of the rolling component and the rolling box, the tea is added to the rolling box intermittently, and the tea is not put back into the first gear, so as to avoid the damage to the tea when the first gear engages with the tooth ring and rotates.



- 21: 2024/00228. 22: 2024/01/05. 43: 2024/07/10
- 51: A61K; C12N
- 71: AstraZeneca AB
- 72: LINDÉN, Daniel
- 33: US 31: 63/208,299 32: 2021-06-08

54: COMBINATION THERAPIES FOR

00: -

Provided are methods of treating a liver disease in a subject, comprising administering to the subject: i) an inhibitor of patatin like phospholipase domain containing 3 (PNPLA3) expression; and ii) an agonist of glucagon receptor and/or glucagon-like peptide-1 (GLP-1) receptor. Also provided pharmaceutical and kits comprising i) an inhibitor of PNPLA3 expression; and ii) an agonist of glucagon receptor and/or GLP-1 receptor.

21: 2024/00239. 22: 2024/01/08. 43: 2024/07/11 51: G06Q

71: MIT Art Design and Technology University, Pune, Jayashree Rajesh Prasad, Rajesh Shardanand Prasad, Dr. Mrs. Pooja Avdhut Kulkarni 72: Jayashree Rajesh Prasad, Rajesh Shardanand Prasad, Dr. Mrs. Pooja Avdhut Kulkarni 54: SYSTEM AND METHOD UTILIZING ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGY FOR EMERGENCY DETERMINATION 00: -

The present disclosure is directed toward a system and method for detecting and responding to a potential emergency event occurring with respect to a user in or near a designated area. The system and method for detecting can include one or more sensors disposed in or near the designated area to detect events; a portable device, operatively coupled to said one or more sensors, having a wireless transceiver to store the events as tamperproof sensor events on a blockchain; and an artificial intelligence engine, operatively coupled to the portable device, configured to analyze the tamperproof sensor events to automatically identify the potential emergency event and, upon such identification, determine whether the potential emergency event is a true emergency state or a false emergency state.



21: 2024/00245. 22: 2024/01/08. 43: 2024/07/11 51: B01F 71: SOLDEVCO (PTY) LTD, RAUTENBACH, Alisia, RADEMAN, Heindré Keith 72: RADEMAN, Heindré Keith 33: ZA 31: 2022/10967 32: 2023-04-06 54: FLUID ENTRAINMENT APPARATUS, SYSTEM AND METHOD FOR GENERATING BUBBLES, INCLUDING MICRO AND ULTRAFINE BUBBLES, IN A LIQUID

## 00: -

The present disclosure relates to a gas entrainment apparatus for generating bubbles of a gas in a liquid. The apparatus may comprise a mixing chamber defining an inlet for receiving the liquid under pressure from a liquid source. The inlet may be configured to generate a first liquid vortex moving in the mixing chamber in a first direction. The chamber may comprise a rebound formation configured to reverse the first direction of the first vortex to generate a second vortex travelling in an opposing second direction. The apparatus may comprise a gas inlet configured to admit the gas into the second vortex. The apparatus may further comprise an outlet configured to release a mixture of the liquid and bubbles to an exterior of the chamber. The present disclosure extends to a system and a method for generating bubbles of gas in a liquid.



21: 2024/00256. 22: 2024/01/08. 43: 2024/08/27 51: H01M 71: XIAMEN HITHIUM ENERGY STORAGE

TECHNOLOGY CO., LTD. 72: XIONG, Yongfeng, XU, Weidong 33: CN 31: 202211166764.9 32: 2022-09-23 33: CN 31: 202222598483.2 32: 2022-09-29 54: CURRENT COLLECTING COMPONENT, BATTERY AND BATTERY MODULE 00: -

The present disclosure relates to a current collecting component (100), a battery and a battery module, includes a current collecting part, the current collecting part includes a current collecting region and at least one electrical connection region (111); and a connecting part, the connection part is connected with the current collecting region; and a thickness of the current collecting region is greater than a thickness of the electrical connection region (111).



21: 2024/00293. 22: 2024/01/09. 43: 2024/07/11 51: A47B; E04H; F16F; G21C 71: NATIONAL INSTITUTE OF TECHNOLOGY CALICUT, Azeem M, Dr. Sajith A.S, Dr. P.V. Indira 72: Azeem M, Dr. Sajith A.S, Dr. P.V. Indira 54: AN INERTER BASED BASE ISOLATION SYSTEM USING LINEAR MOTION GUIDE AND TENSION SPRINGS 00: -

The present utility model relates to an inerter based base isolation system. The inerter based base isolation system for protecting structures from seismic excitations and high-frequency vibrations. The inerter based base isolation system comprises a base, plurality of guide blocks, plurality of sliding members, a rack, a pinion wheel, and a support rigid frame. The plurality of sliding members is configured to support a structure. The elastic members are configured to provide a restoring force that facilitate the structure to recenter upon occurrence of external excitations, thereby ensuring stability to the structure and preventing uncontrolled displacements. The pinion wheel is configured to rotate when engaged with the rack, thereby achieving a magnification effect, resulting in decrease in natural frequency and

increase in a period. The inerter based base isolation system mitigates impact of high frequency ground motions and improves overall seismic performance of the structure.



21: 2024/00295. 22: 2024/01/09. 43: 2024/07/11 51: E21B

71: Guizhou Jiutai Bangda Energy Development Co., Ltd.

72: Jingxin,Dong, Xudong,Chen, Qi,Shi, Fushan,Tang, Bang,Ye

#### 54: A DEEP HOLE PULLING ROD AND DRILL BIT POSITIONING AUXILIARY DEVICE FOR ANCHOR BOLT MACHINE AND ITS USE METHOD 00: -

The present invention discloses a deep hole pulling rod and drill bit positioning auxiliary device for an anchor rod machine, including an upper and lower steel plate structure. The upper plate is a complete block, and the lower plate is composed of three small plates, which can be separated and moved in a staggered manner. The three small plates are fixed with screw columns, steel cylinders, and climbing components; The upper plate is fixed by two nuts, and two compression rods are connected to the plate; The lower end of the compression rod is connected to the upper plate, and the upper end is connected to the compression rod system component; The components of the pressure rod system are composed of a casing, hydraulic oil chamber, piston, and friction plate. The present

invention can be used to mechanically pull out drill pipes, especially for deep hole anchor rod machine, with simple operation and reduced labor intensity of construction personnel.



21: 2024/00302. 22: 2024/01/09. 43: 2024/07/11 51: A61F

71: CHENGDU ORIGEN BIOTECHNOLOGY CO., LTD.

72: KE, Xiao, ZHENG, Qiang, JIANG, Hao, LONG, Yang, QIN, Yingfei

33: ČN 31: 202110830969.1 32: 2021-07-22 54: OCULAR INJECTION ASSEMBLY, INJECTION DEVICE AND METHOD OF USING THE SAME 00: -

The present invention relates to the field of ophthalmic therapy, and in particular to an ophthalmic injection assembly and injection device, and a use method. The ophthalmic injection assembly, comprising a sleeve and a needle, wherein the needle can be sleeved in the sleeve, and an end portion of the sleeve is provided with a clamping port. When in use, the tip portion of the needle can pass through the clamping port. When the ophthalmic injection assembly is used, the clamping port of the sleeve is in contact with and presses the eye tissue of an injection part, so that the eye tissue of the injection part protrudes into the sleeve, and an injection success rate can be significantly improved.



21: 2024/00303. 22: 2024/01/09. 43: 2024/07/11 51: G01K

71: JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD.

72: WANG, Chao

33: CN 31: 202110851896.4 32: 2021-07-27 54: METHOD AND APPARATUS FOR MEASURING SURFACE TEMPERATURE OF OBJECT

00: -

Provided are a method and apparatus for measuring the surface temperature of an object. The method comprises: once a temperature sensing apparatus is in contact with the surface of an object to be measured for a set duration, obtaining temperatures measured by the temperature sensing apparatus at a current moment and a previous moment of the current moment, the temperature sensing apparatus being in conductive contact with the surface of the object (101); determining a temperature compensation factor for the current moment according to the temperatures measured by the temperature sensing apparatus at the current moment and the previous moment of the current moment (102); obtaining a correction factor of the temperature compensation factor (103); obtaining a static correction factor (104); and according to one or more of the temperature measured by the temperature sensing apparatus at the current moment, the temperature compensation factor for the current moment, the temperature compensation factor of the temperature compensation factor of the temperature compensation factor and the static correction factor, determining the surface temperature of the object at the current moment (105). The temperature may be accurately measured without damaging an object to be measured.



21: 2024/00305. 22: 2024/01/09. 43: 2024/07/11 51: H02S

71: An hui Krant Aluminum Products Co., Ltd 72: XIONG, Maoqing, PAN, Zutang, ZHANG, Xiong, XIANG, Hua, WANG, Xu

33: CN 31: 2023108163082 32: 2023-07-05 54: FORMING PROCESS FOR ALUMINUM ALLOY BRACKET OF SOLAR PHOTOVOLTAIC PANEL 00: -

The present invention discloses a forming process of an aluminum alloy support of a solar photovoltaic panel, and belongs to the technical field of photovoltaic supports. The forming process includes: bonding a protective film to a filling surface of an aluminum alloy profile after the aluminum alloy profile is formed, immersing the aluminum alloy profile in a phosphating solution for phosphating

treatment, spraying fluorocarbon powder coating materials on an outer side surface and an inner side surface of the aluminum alloy profile after washing and drying, baking and curing the aluminum alloy profile after the protective film is removed, cooling the aluminum alloy profile, then immersing the aluminum alloy profile in an electrolyte for anodic oxidation, and assembling the aluminum alloy profiles into the aluminum alloy support after washing and drying, such that the forming process of an aluminum alloy support of a solar photovoltaic panel is completed. During phosphating treatment, the filling surface is protected through bonding of the protective film, such that influence on conductivity during anodic oxidation is prevented; the outer side surface and the inner side surface are sprayed with the fluorocarbon powder coating materials for drying and curing, such that a paint film having desirable antifouling performance and decorative effect can be obtained; and the filling surface subjected to anodic oxidation treatment can strengthen adhesion to a silicone adhesive, such that degumming and separation after long-term use can be avoided, and use demand of the solar photovoltaic panel can be satisfied.

# Homogenization Forming processing Thermal aging treatment Degreasing treatment Surface protection treatment Assembly

Aluminum allov cast rod

21: 2024/00346. 22: 2024/01/10. 43: 2024/07/12 51: C07C

71: SHANDONG XINLONG AGROCHEM CO., LTD. 72: DING, PEIJIE, NI, JINFENG, ZHAO, SHIXIN 33: CN 31: 2023103151888 32: 2023-03-29 54: HIGH-PURITY AND HIGH-YIELD 4-BROMOFLUOROBENZENE SYNTHESIS METHOD 00: -

The present invention provides a high-purity and high-yield 4-bromofluorobenzene synthesis method, and belongs to the field of 4-bromofluorobenzene. The high-purity and high-yield 4-

bromofluorobenzene synthesis method consists of the following steps: a bromine chloride preparation step, a synthesis step, a washing step, and a posttreatment step. The high-purity and high-yield 4bromofluorobenzene synthesis method of the present invention can effectively control the reaction

process of bromine chloride and fluorobenzene, effectively avoid the production of 4-

chlorofluorobenzene impurities, and control other impurities in the reaction product to extremely low levels. Finally, the yield of 4-bromofluorobenzene can reach 98.5%, and the reaction products include more than 98.5% of 4-bromofluorobenzene and less than 1% of 2-bromofluorobenzene. In addition, the bromine consumption per ton of product is only 0.48 Ton.



21: 2024/00347. 22: 2024/01/10. 43: 2024/07/12 51: C07D

71: SHANDONG XINLONG AGROCHEM CO., LTD. 72: DING, PEIJIE, NI, JINFENG, ZHAO, SHIXIN 33: CN 31: 2023103687132 32: 2023-04-10 54: METHOD FOR SYNTHESIZING CHLORFENAPYR

00: -

The present invention provides a method for synthesizing Chlorfenapyr, and belongs to the field of Chlorfenapyr synthesis. The method for synthesizing Chlorfenapyr consists of the following steps: synthesis, washing and extraction, primary distillation, and secondary distillation. The method for synthesizing Chlorfenapyr of the present invention can effectively overcome the problems of difficulty in post-reaction reagent processing, high cost and poor environmental friendliness in the existing process, and the Chlorfenapyr produced can reach a purity of 98-99.5% and a yield of 97-99%.

21: 2024/00375. 22: 2024/01/10. 43: 2024/07/12 51: F16K; F16L 71: MILLER, James Douglas 72: MILLER, James Douglas 33: ZP 31: 2021/06112 32: 2021-08-25

# 54: AN AIR RELEASE VALVE INSTALLATION 00: -

An air release valve installation (10) for a water supply pipeline (4) comprises an air release valve (12) and a resilient seated isolating gate valve (14). The isolating valve (14) is mounted to an upper end of a stand pipe (8) and the air release valve (12) is in turn mounted to an upper end (62) of the isolating valve (14). The air release valve (12) has a valve body (13) of a non-valuable, non-metallic material, for example a synthetic like nylon, comprising an upper air valve end plate (24), a lower air valve end plate (26) and a side wall (28) defining a valve chamber 16 in which at least one valve member (20, 22) and a control float (18) are located. The isolating valve (14) includes a metal isolating valve body (48) defining an isolating valve chamber (50) and a rubber gate (58) mounted within the isolating valve chamber.



- 21: 2024/00385. 22: 2024/01/11. 43: 2024/07/12 51: C12N
- 71: Shandong Agricultural University

72: Ding Haiping, Zhang Zhiming, Li Xinzheng, Nie Yongxin, Zhu Kun, Ma Haoran, Li Xiaohu, Du Jiyuan

## 33: CN 31: 2023103054500 32: 2023-03-27 54: PROTEIN HRZ FOR REGULATING CONTENT OF IRON IN CORN AND CODING GENE AND APPLICATIONS THEREOF

00: -

The invention discloses a protein HRZ for regulating the content of iron in corn and a coding gene and applications thereof, and belongs to the technical field of plant genetic improvement. According to the invention, it is found that a gene ZmHRZ participates in regulating the content of iron in corn, and the mutation of the gene ZmHRZ will cause the accumulation of iron in tissues of corn, such as leaves, stems, female ears and grains. Therefore, the gene ZmHRZ and the coding protein HRZ thereof will be of great significance and application prospect in iron bioaugmentation of corn.



21: 2024/00426. 22: 2024/01/12. 43: 2024/07/15 51: E03C

71: SCHOLTZ, Johannes Jacobus Lodewicus

72: SCHOLTZ, Johannes Jacobus Lodewicus

## 54: WATER SAVING VALVE

00: -

There is disclosed a water saving valve comprising a main water supply chamber with an inlet securable to a source of pressurised hot water, a hot-water conduit with an outlet securable to a tap, and a coldwater bypass chamber with an outlet securable to a conservation storage means; with the valve including a hot water fluid connection between the main water supply chamber and the hot-water conduit, and a bypass connection between the main water supply chamber and the cold-water bypass chamber; with the main water supply chamber including a heat activated actuator being configured to selectively close one of the hot water fluid connection and the bypass connection and to leave the other open, and to be resiliently biased to close the hot water fluid connection when the temperature of water flowing

into the main water supply chamber is below a predetermined operating temperature, and to open the hot water fluid connection when the temperature of water flowing into the main water supply chamber is at least equal to the predetermined operating temperature; operatively directing water to the conservation storage means unless its temperature is at least equal to the predetermined operating temperature.



21: 2024/00440. 22: 2024/01/12. 43: 2024/07/17 51: E21D

71: CHINA RAILWAY TUNNEL GROUP CO., LTD., CHINA RAILWAY CITY DEVELOPMENT AND INVESTMENT GROUP CO., LTD., CHINA RAILWAY TUNNEL GROUP ROAD & BRIDGE ENGINEERING CO., LTD., SOUTHWEST JIAOTONG UNIVERSITY, CHINA RAILWAY TUNNEL GROUP BEIJING CTG CONSTRUCTION CO., LTD.

72: ZHANG, YUQIANG, DIAO, GUOJUN, XING, TIEQIANG, XIA, ZENGYIN, ZAHNG, YAJUN, CHEN, FENGRONG, QIN, LING, ZHAN, YUQUAN, FENG, JIANPING, CHEN, JUNPAN, XIE, CHANGJUN, YANG, MINGXU, ZENG, YONG, CHEN, XIAO, YANG, HE, FENG, JIMENG, LI, ZHIYONG, WANG, GUOQIANG, ZHENG, WENLONG, LI, HUAWEI, HE, RUI, CHEN, CHAO, CHEN, YU, ZHANG, HONG, SU, CHAO, XU, SHIHANG, JIANG, HUI 33: CN 31: 202310276218.9 32: 2023-03-20

## 54: NON-REMOVAL CORRECTION DEVICE, NON-REMOVAL CORRECTION SYSTEM AND CORRECTION METHOD

#### 00: -

A non-removal correction device, a non-removal correction system and a correction method are disclosed that address the technical problem associated with replacement of an intrusion region. A non-removal correction device configured for correcting an intrusion region of an initial support of tunnel, it includes a loading beam, a length of the loading beam is adapted to a spacing between two steel arches at two sides of the tunnel along its radial direction in the intrusion region, the loading beam is configured with a through hole; an anchor cable, the anchor cable passes through the through hole and is anchored in an anchor hole in a soil body on a side of the intrusion region; and a tensioning assembly for tensioning the anchor cable, the two steel arches will be urged to move in a direction opposite to an intrusion direction of the intrusion region when the anchor cable is tensioned.



21: 2024/00450. 22: 2024/01/12. 43: 2024/07/15 51: G06Q

71: NEEDHAM, Justin, Charles, Stockton 72: NEEDHAM, Justin, Charles, Stockton 33: ZA 31: 2021/04897 32: 2021-07-13 33: ZA 31: 2021/10176 32: 2021-12-09 33: ZA 31: 2022/00296 32: 2022-01-06 54: AN INCENTIVE SYSTEM

#### 00: -

The incentive system (10) includes a scanning device (12) for scanning an identifier (14) of a recyclable item (16) presented by a user (18) to be received by a recyclable item receiving machine (20), typically via a receiving zone (21) thereof, comparing means (22) for comparing the scanned identifier (14) with stored identifiers (24) on an identifier database (26) which includes identifiers of at least four different types of recyclable item (16), rewarding means (28) for rewarding the user (18) upon matching of the scanned identifier (14) with a stored identifier (24) and upon receipt of the recyclable item (16) by the recyclable item receiving machine (20), and a transducer arrangement (30) for converting a mass (31) of the recyclable item (16) into an electrical signal for storage as an additional identifier of the recyclable item (16).



- 21: 2024/00483. 22: 2024/01/15. 43: 2024/07/18 51: B28B
- 71: Chinese Research Academy of Environmental Sciences

72: LI Zixiu, LIU Yanping

#### 54: DEBRIS BRICK AND PREPARATION METHOD THEREOF 00: -

The present disclosure relates to the technical field of resource recycling, in particular to a debris brick and a preparation method thereof. The debris brick is prepared from following components in parts by weight: 3-6 parts of drilling solid wastes, 1 part of internal combustion coal and 3-6 parts of fly ash. Environmental pollution caused by stockpiling of water-based drilling debris can be avoided, the problem about final disposal of the drilling solid wastes can be solved, and burdens of a drilling

process on surrounding ecological environments can be relieved; the purpose of harmless disposal can be completely achieved by preparing fired bricks through high-temperature firing, and secondary pollution such as heavy metals is avoided; and added value of resource products of the water-based drilling debris is effectively improved, thereby achieving substantial economic income.



21: 2024/00485. 22: 2024/01/15. 43: 2024/07/18 51: F16M; F16F; F16L

71: CHINA RAILWAY SIXTH GROUP ELECTRIFYING AND POWER ENGINEERING CO., LTD., CHINA RAILWAY SIXTH GROUP CO., LTD. 72: LI, MINGYUAN, YAO, YUAN, ZHANG, ZHIAN, LIANG, SHUNFA, CHEN, SHUANG, GAO, CHAO, LI, JIAN, XIE, ZHIQIANG, SU, LIANG, HOU, SHENGLONG, CHEN, FEIDA 33: CN 31: 202310257206.1 32: 2023-03-08

## 54: A PREFABRICATED COMPREHENSIVE ANTI-SEISMIC SUPPORT AND HANGER FOR RAIL TRANSIT ENGINEERING AND MOUNTING METHOD THEREOF

00: -

The present application relates to a prefabricated comprehensive anti-seismic support and hanger for rail transit engineering, comprising a plurality of mounting bases that are arranged at intervals on a construction roof, a vertical rod component that is connected to each mounting base and a cross rod that is configured to connect two adjacent vertical rod components, the cross rod is detachably connected to the vertical rod components, and an opposite side of the two vertical rod components is connected to a limiting component, a first end of the limiting component is passed through the cross rod, and when supported by the support and hanger, the first end of the limiting component slides on the cross rod with a size of a supporting device. The vertical rod component comprises a mounting rod

that is connected to the construction roof and a channel steel that is sleeved on an outer side of the mounting rod, wherein the channel steel is provided inside the mounting base and the channel steel is fixed to the mounting base through a fixing element, an embedding slot is provided on the channel steel for the mounting rod to be embedded, an end of the mounting rod departing from the construction roof is provided with a first hoop, wherein the first hoop is configured to connect the mounting rod and the cross rod. The present application has an effect of enhancing an anti-seismic capability of the support and hanger and reducing a possibility of generating a safety hazard during construction.



- 21: 2024/00520. 22: 2024/01/16. 43: 2024/07/18 51: B62D
- 71: MAHINDRA & MAHINDRA LIMITED

72: MAREESWARAN, Periyaswamy, FERNANDES, Bradley Diago

## 33: IN 31: 202341003449 32: 2023-01-17 54: A VEHICULAR STEERING WHEEL ASSEMBLY

#### 00: -

The present invention relates to a vehicular steering wheel assembly (100). The steering wheel assembly (100) includes a steering wheel (110), a housing (120) attached to the steering wheel (110), a cover member (130) mounted to the housing (120) to seal an opening (122) of the housing (120) and a display module (150). The housing (120) accommodates an airbag module (200) having a folded airbag cushion (210) and an inflator (220). The cover member (130) includes a tear line (132) and a door hinge (134) defining a door (140) therebetween. The door (140) is configured to open about the door hinge (134) enabling the inflating airbag cushion (210) to be deployed outside the cover member (130) towards an operator. The display module (150) is attached to the door (140) by heat staking and is configured to move along with the door (140) when it opens about the door hinge (134).



21: 2024/00523. 22: 2024/01/16. 43: 2024/07/18 51: H01R

71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.

72: WANG, Chao

## 33: CN 31: 202110803204.9 32: 2021-07-15 33: CN 31: 202121613435.5 32: 2021-07-15 54: CYLINDRICAL TERMINAL, PLUG-IN CONNECTION STRUCTURE, AND METHOD FOR MACHINING CYLINDRICAL TERMINAL

00: -A cvl

A cylindrical terminal, comprising a contact section (10), a fixing section (20) and a connecting section (30), wherein the fixing section (20) comprises an extension section (201) and an assembly portion (202), which is injection-molded on the extension section (201). The contact section (10), the extension section (201) and the connecting section (30) are integrally formed as a cylindrical tube. The contact section (10) is provided with at least two axial slots (102), such that a side wall of the contact section (10) is divided into at least two contact elastic sheets (103). The contact section (10) is provided with a radial inward recess (101), such that the contact elastic sheets (103) form arc-shaped structures. Also provided are a plug-in connection structure, comprising a plug-in end terminal (40) and the cylindrical terminal, and a cylindrical terminal machining method.



21: 2024/00524. 22: 2024/01/16. 43: 2024/07/23 51: H01R 71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD. 72: WANG, Chao 33: CN 31: 202121613410.5 32: 2021-07-15 33: CN 31: 202110803188.3 32: 2021-07-17 54: PLUG-IN TERMINAL, MATING PLUG-IN CONNECTION STRUCTURE, AND PLUG-IN TERMINAL ASSEMBLY 00: -

A plug-in terminal, a mating plug-in connection structure and a plug-in terminal assembly. The plugin terminal includes: a connecting end(10) and a plug-in end(20); the plug-in end(20) includes: a fixing unit(21) and an elastic unit(22); the fixing unit(21) is configured to be provided on a coupling device(40); the connecting end(10) includes one end electrically connected to a cable, and the other end connected to the fixing unit(21), in which the elastic unit(22) is provided with an expansion and contraction insertion hole for plugging in and electrical connection with a mating terminal. The plug-in terminal having the elastic unit with the expansion and contraction insertion hole ensures that the plug-in terminal is in full contact with the mating terminal, and satisfies mechanical requirements and temperature rise requirements.



21: 2024/00532. 22: 2024/01/16. 43: 2024/07/18 51: A23L; A61K; C12N 71: SUPRÊME 72: GONZALEZ GRASSI, Federico Jose, COUTELIER, Héloïse, SAYOUS, Victor Claude Léon 33: US 31: 63/220,158 32: 2021-07-09 33: EP 31: 21305964.5 32: 2021-07-09

## 54: FOODSTUFFS COMPRISING CELLS DIFFERENTIATED FROM ENGINEERED OLIGOPOTENT STEM CELLS

00: -

The invention belongs to the field of food biotechnology. More precisely the invention relates to so-called lab grown meat. The invention relates to a method for producing foodstuff comprising a step of processing in vitro differentiated non-human animal cells wherein said in vitro differentiated nonhuman animal cells originate from at least one oligopotent stem cell (OSC), said at least one OSC being inactivated for the expression of at least one lineage specifier gene. The invention also relates to said foodstuff and OSCs useful for producing said foodstuff.



21: 2024/00581. 22: 2024/01/17. 43: 2024/07/19 51: H01R 71: CHANGCHUN JETTY AUTOMOTIVE

TECHNOLOGY CO., LTD.

72: WANG, Chao 33: CN 31: 202110803160.X 32: 2021-07-15 33: CN 31: 202121611169.2 32: 2021-07-15 54: TERMINAL HAVING STAMPING ELASTIC SHEET STRUCTURE

00: -

A terminal having a stamping elastic sheet structure, the terminal comprising a mounting base (1) and an outer elastic sheet structure (2), wherein one end of the outer elastic sheet structure (2) is connected to one end of the mounting base (1), the mounting base (1) and the outer elastic sheet structure (2) are separately formed, and the outer elastic sheet structure (2) is of a stamping structure. According to the terminal having the stamping elastic sheet structure, integral processing is changed to the manner in which a stamping elastic sheet and the mounting base are separately processed and manufactured and then assembled into a unit, so that the cost of the terminal is greatly saved, the machining time is shortened, it can be guaranteed that the elastic sheet makes full contact with the a conductive portion of the plug-in terminal, and the mechanical requirement and the temperature rise requirement of a charging system are satisfied.



21: 2024/00583. 22: 2024/01/17. 43: 2024/07/19 51: H01R

71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD. 72: WANG, Chao

33: CN 31: 202110801855.4 32: 2021-07-15 33: CN 31: 202121611259.1 32: 2021-07-15 54: TERMINAL HAVING MEMORY RING

00: -

A terminal having a memory ring. The terminal comprises a terminal body (1) and a memory ring (2). The terminal body (1) comprises a contact section (13). The memory ring (2) is sleeved outside the contact section (13), the memory ring (2) is in contact with the contact section (13), the material of the memory ring (2) is a memory alloy, and the memory ring (2) is capable of contracting the contact section (13). By means of the terminal having the

memory ring, no-insertion-force docking can be achieved, and the contact area and the contact force between the terminal and a mating terminal are ensured by means of an increase in temperature during operation, thereby improving the reliability of contact. Since the requirement for an insertion force is omitted, the operation is easier, and the operation efficiency is improved.



- 21: 2024/00584. 22: 2024/01/17. 43: 2024/07/19 51: A63B; E04H
- 71: CALITZ, Peter Benjamin
- 72: CALITZ, Peter Benjamin
- 33: ZA 31: 2021/05213 32: 2021-07-23 54: A WAVE GENERATING INSTALLATION AND METHOD

00: -

A wave generating installation (100) is configured to generate a wave in water and includes a carousel (102) configured to rotate about an upright axis of rotation. A wave former (120) is fixed relative to the carousel and therefore configured to rotate with the carousel, wherein the wave former is configured to form an incoming stream of water (112) into a standing wave. A water outlet (110) is spaced away from the wave former, the water outlet being configured to direct a stream of water over part of the carousel towards the wave former. A water pump (140) is connected via a water conduit to the water outlet, thereby to produce the stream of water. The installation is configured to direct the stream of water over the rotating carousel towards the wave former, thereby to generate the wave which is a standing wave relative to the carousel but which rotates with the carousel.



21: 2024/00594. 22: 2024/01/17. 43: 2024/07/19 51: C03C

71: CHANGSHU JIAHE DISPLAY TECHNOLOGY CO., LTD

72: ZHOU, WEIWEI, ZHANG, FUJUN, TIAN, QIHANG, ZHANG, JIHONG

33: CN 31: 202110278335.X 32: 2021-03-18 54: GLASS MATERIAL, AND PREPARATION METHOD THEREFOR AND PRODUCT THEREOF 00: -

A glass material, and a preparation method therefor and a product thereof. The glass material contains a lithium salt crystal phase and a phosphate crystal phase; moreover, the crystallinity of the whole material is 40-95%, the lithium salt crystal phase accounts for 40-90 wt%, and the phosphate crystal phase accounts for 2-15 wt%, wherein the lithium salt crystal phase is one or more of lithium silicate, lithium disilicate, and petalite, and the phosphate crystal phase is aluminum phosphate or/and aluminum metaphosphate. The Vickers hardness (Hv) of the glass material after being tempered is more than 900 kgf/mm<sup>2</sup>. The glass material or product is suitable for protective members such as a mobile terminal device and an optical device, has high hardness and strength, and can also be used for other decorations such as an outer frame member of a portable electronic device.



温度(℃):Temperature (°C) 放热:Heat release

#### 21: 2024/00595. 22: 2024/01/17. 43: 2024/07/19 51: A61K; A61P; C07D

71: AstraZeneca AB

72: SMITH, James Michael, ROBB, Graeme Richard, RAUBO, Piotr Antoni, BARLAAM, Bernard Christophe, CUMMING, Iain Alexander 33: US 31: 63/243,267 32: 2021-09-13 54: SPIROCYCLIC COMPOUNDS 00: -

The specification relates to compounds of Formula (I) and pharmaceutically acceptable salts thereof. The specification also relates to processes and intermediates used for their preparation, pharmaceutical compositions containing them and their use in the treatment of cell proliferative disorders.



Figure 1



21: 2024/00602. 22: 2024/01/17. 43: 2024/07/19 51: G01F

71: VICTAULIC COMPANY

72: CIASULLI, Andrew Michael, MEYER, Stephen Joseph, DESROCHERS, Kristopher Lawrence, CARMEN, Larry, CLEVENGER, Neal A.(deseased)
33: US 31: 63/212,209 32: 2021-06-18
54: CALIBRATED FLOW RATE SENSING AND FLOW CONTROL DEVICE

00: -

A fluid flow rate sensor, which may also be the basis of a valve for a fire suppression system, uses a sensing arm to convey motion of an obturation body or a valve closing member to a sensor system which evaluates the motion and generates a calibrated measure of the flow rate and/or an alarm signal in response if warranted. The obturation body and the valve closing member are capable of both rotation and translational motion, both of which are sensed using the sensing arm. The sensor system is isolated from the fluid within the valve.



21: 2024/00603. 22: 2024/01/17. 43: 2024/07/19 51: E21B

71: REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD

72: JACKSON, John Carl, KENNELLY, Lachlan, WEBB, Lee, GREENWOOD, Roland
33: AU 31: 2021902388 32: 2021-08-03
54: MEASUREMENT TOOL INSTALLATION APPARATUS AND METHOD
00: -

An installation apparatus for a measurement tool in an underground mine with overhead drill holes, the installation apparatus comprising: a support that can be removably secured to the ceiling, wall and/or ground of the mine, and an installation conduit that can be removably coupled to the support and aligned with the drill hole to deploy a survey and/or geophysical tool into the open drill hole. 21: 2024/00616. 22: 2024/01/18. 43: 2024/07/18 51: B05B

71: LASTING TECHNOLOGY (SHENZHEN) CO., LTD

72: CHEN, Shiwei, LI, Zhicheng

#### 54: ULTRAHIGH PRESSURE WATER JET SELF-ROTATING PIPELINE CLEANING NOZZLE 00: -

The present invention discloses an ultrahigh pressure water jet self-rotating pipeline cleaning nozzle, which relates to the technical field of nozzles. It comprises a fixed base, a housing, a rotating shaft and an nozzle head, wherein a positioning shaft is arranged at a bottom portion of the fixed base, a positioning hole sleeved with the positioning shaft is arranged in the rotating shaft, the housing is threaded and sleeved outside the fixed base, the rotating shaft penetrates through an inner chamber of the housing and a bottom portion thereof is connected with the nozzle head, and the nozzle head is provided with gemstone nozzles. For an ultrahigh pressure ultrahigh pressure nozzle, such rotation has better stability and smaller leakage, arrangement of water outlets can effectively reduce the erosion of the leaked high pressure water on the wrench position of the axle journal and the thread at the end of the rotating shaft, which effectively reduces the impact of the high pressure water on the nozzle heads and make the nozzle heads rotate more balanced during ultrahigh pressure use, and the structure is simple and compact, which is in line

with economic benefits and has broad application prospects.



21: 2024/00625. 22: 2024/01/18. 43: 2024/07/19 51: H01B 71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD. 72: WANG, Chao 33: CN 31: 202110821578.3 32: 2021-07-20 33: CN 31: 202121653535.0 32: 2021-07-20 54: CABLE HAVING COOLING FUNCTION, CURRENT TRANSMISSION DEVICE, AND ELECTRIC VEHICLE 00: -

: Provided herein are a cable having a cooling function, a current transmission device, and an electric vehicle, which belong to the field of current transmission. The cable having a cooling function comprises: a semiconductor cooling module, a conductor, and a control module. A cooling end of the semiconductor cooling module is disposed on at least one side surface of the conductor and is used to absorb heat from the conductor; and the semiconductor cooling module is electrically connected to the control module, and the control module is used to control an electrical signal supplied to the semiconductor cooling module. The cable having a cooling function provided herein has the advantages of a simple structure, flexible size, reliable performance, no noise, and no refrigerant pollution.



21: 2024/00711. 22: 2024/01/22. 43: 2024/07/22 51: A01G

71: INSTITUTE OF FOOD AND CROPS OF THE ACADEMY OF AGRICULTURAL SCIENCES OF YUNNAN PROVINCE

72: Ying LV, Xiaolin LI, Wei DENG, Yuran XU, Jianhua ZHANG, Junjiao GUAN, Hua AN, Duo LAN, Sheping LI

#### 33: CN 31: 2023107421034 32: 2023-06-21 54: DRYLAND COLOR RICE LANDSCAPE PLANTING METHOD 00: -

The present disclosure relates to a dryland color rice landscape planting method, belonging to the technical field of rice breeding. The method includes the steps of designing a color rice pattern, determining desired colorful rice varieties, preparing seedling nutrient soil, forming the seedbed, seedbed preparation, seed soaking, sprouting, and sowing, etc. The present disclosure can achieve orderly distribution of seedlings, with good ventilation and light transmission, which is conducive to high rice yields. The planting of colorful rice landscape is conducive to increasing the added value of agriculture, driving farmers to increase their income, and promoting the integration of agriculture and tourism.



21: 2024/00712. 22: 2024/01/22. 43: 2024/07/22 51: A01G; A01H

71: INSTITUTE OF FOOD AND CROPS OF THE ACADEMY OF AGRICULTURAL SCIENCES OF YUNNAN PROVINCE

72: Xiaolin LI, Wei DENG, Ying LV, Jianhua ZHANG, Yuran XU, Hua AN, Sheping LI, Liping YANG 33: CN 31: 2023102717658 32: 2023-03-20 54: SELECTION METHOD AND APPLICATION OF

## BROADLY AFFINE DUAL-PURPOSE NUCLEAR STERILE LINES WITH LOW FERTILE STARTING TEMPERATURES IN RICE

00: -

The present disclosure relates to a selection method and an application of broadly affine dual-purpose nuclear sterile lines with low fertile starting temperatures in rice, belonging to the technical field of rice breeding. In the method, a cross is made between Pei'ai 64s as a female parent and Gang 46B as a male parent to obtain the F1 generation seeds, and four broad affinity test materials are successively used in cross-testing experiments from the F3 generation to the F7 generation, to identify strains containing broad affinity genes, and to determine a fertility starting point temperature through an artificial climatic chamber. After three generations of self-crossing and purification, the F10 generation produces a broadly affinity dual-purpose nuclear sterile line with a low fertility starting temperature in rice, Yun 992s.



21: 2024/00713. 22: 2024/01/22. 43: 2024/07/22 51: F23G

71: UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING 72: MIAO, Shengjun, LIU, Zejing, MA, Yuankai, LI, Conghao, ZHAO, Ziqi, CHANG, Ningdong, MA, Yuting

#### 54: IMMEDIATE ROCKBURST TENDENCY GRADE DISCRIMINATION METHOD 00: -

The present invention discloses an immediate rockburst tendency grade discrimination method, and belongs to the field of rockburst tendency grade discrimination. The method comprises the following steps: preparing a rock sample; performing a triaxial compression test on the rock sample with a confining pressure equal to 0%, 50%, 100%, 150% and 200% of an absolute value of a third principal stress for discriminating a crustal stress of a to-beevaluated area to obtain a ratio of a shear strength and a compressive strength of the rock and an expansion buffer coefficient of the rock; performing a triaxial cyclic loading and unloading damage control test on the rock sample to obtain triaxial grading cyclic loading and unloading axial and lateral stressstrain curves corresponding to the rock sample, and calculating to obtain an elastic energy storage coefficient of the rock and an energy consumption release coefficient of the rock; calculating to obtain an immediate rockburst tendency coefficient based on the ratio of the shear strength to the compressive strength of the rock, the expansion buffer coefficient of the rock, the elastic energy storage coefficient of the rock and the energy consumption release coefficient of the rock; and discriminating the immediate rockburst tendency grade of the to-beevaluated area, so that the immediate rockburst tendency grade discrimination is achieved.



#### 21: 2024/00714. 22: 2024/01/22. 43: 2024/07/22 51: A61K; A61P

71: HANGZHOU CITY UNIVERSITY 72: Naru ZHANG, Zihui YE, Shuchang CHEN,

Haijun HAN 33: CN 31: 2023107838042 32: 2023-06-29 54: COMBINED INFLUENZA-COVID-19 SUBUNIT VACCINE AND PREPARATION METHOD AND APPLICATION THEREOF 00: -

Provided are a combined influenza-COVID-19 subunit vaccine and a preparation method and an application thereof. The present invention prepares a combined influenza-COVID-19 subunit vaccine by mixing HA protein of influenza A virus H1N1 and S protein solution of SARS-CoV-2 Omicron together, and uses BALB/c mice to detect immunogenicity and protective effects of the combined vaccine. The results indicate that the combined influenza-COVID-19 subunit vaccine (HA+ Omicron S) can induce high levels of HA and Omicron BA.5 S-RBD proteinspecific IgG antibodies, SARS-CoV-2 Omicron BA.5 pseudovirus-specific neutralizing antibodies and H1N1-specific haemagglutination inhibition antibodies in mice.



21: 2024/00715. 22: 2024/01/22. 43: 2024/07/22 51: E21F; F04F 71: CHINA RAILWAY FIRST GROUP CO., LTD, CHINA RAILWAY FIRST GROUP FOURTH ENGINEERING CO., LTD 72: JIANG, Changli, WU, Huihuo, GUAN, Depeng, ZOU, Chao, DANG, Yansheng, JI, Yanfei, DU, Liang, LI, Jianfeng, HU, Wei, CHEN, Chunwei, CHEN, Deyong 33: CN 31: 2023112012259 32: 2023-09-16 54: ENERGY-SAVING WATER DRAINAGE DEVICE AND METHOD AT REVERSE SLOPE CONSTRUCTION STAGE OF LONG AND LARGE

TUNNEL IN MOUNTAINOUS AND HILLY AREA

00: -Provided are an energy-saving water drainage device and method at reverse slope construction stage of a long and large tunnel in a mountainous and hilly area, the device includes a water inlet assembly, a first water drainage assembly, a second water drainage assembly, ground, a tunnel, a water collection well and a three-way pipe fitting, where one end of the water inlet assembly is arranged on the ground, and the other end is connected to the three-way pipe fitting; one end of the first water drainage assembly is arranged inside the water collection well in the tunnel, and the other end is connected to the three-way pipe fitting; one end of the second water drainage assembly is arranged

below the ground, and the other end is connected to the three-way pipe fitting; and the water inlet assembly is configured to control the water to enter the second water drainage assembly.



21: 2024/00716. 22: 2024/01/22. 43: 2024/07/22 51: A61K; A61P

71: PLA NAVY MEDICAL UNIVERSITY 72: ZHOU, Fangbin, ZHANG, Yilong, ZHANG,

Dongmei, TIAN, Yini

33: ČN 31: 202311826045X 32: 2023-12-27 54: APPLICATION OF RECOMBINANT PROTEIN RV3921C OF MYCOBACTERIUM TUBERCULOSIS IN PREPARATION OF TUBERCULOSIS VACCINE 00: -

The present invention relates to an application of a recombinant protein Rv3921c of Mycobacterium tuberculosis in preparation of a tuberculosis vaccine, and belongs to the field of immunology. The present invention provides a recombinant protein Rv3921c of Mycobacterium tuberculosis, with an amino acid sequence shown in SEQ ID NO.1 or SEQ ID NO.2. The recombinant protein Rv3921c of the present invention is capable to improve a level of total IgG antibodies in mouse serum and a level of IFN-y in a splenic cell supernatant, and results show that the recombinant protein Rv3921c with an enhanced immunity effect has a certain effect on increasing an immune protection force of Bacillus Calmette-Guérin Vaccine (BCG) in an incubation period, and can be used to prepare tuberculosis vaccines.



21: 2024/00778. 22: 2024/01/23. 43: 2024/07/24 51: A41D; A61B; A61G 71: NANFANG HOSPITAL BAIYUN BRANCH, SOUTHERN MEDICAL UNIVERSITY 72: Sijin CHEN, Jing ZHANG, Jianting LUO 54: METHOD FOR ANALYSING OBSTETRICS AND GYNECOLOGY INFORMATION BASED ON COMMUNITY-BASED MATERNITY DATA STREAMS

00: -

The current invention pertains to the medical and healthcare analysis field and especially discloses a technique for analysing obstetric and gynecological information utilizing a community obstetric data stream, comprising a step S1, Data acquisition; a step S2, Feature extraction and selection; a step S3, Model training, evaluation, and application ; and a step S4, Evaluate model building and data analysis ; the present invention determines the current status of the cardiopulmonary function of a pregnant woman based on a community-based maternity data stream by combining the information of the pregnant woman's own attributes, Evaluate model building and data analysis, and the information of pulmonary function examination. The present invention determines the current status of the cardiopulmonary function of the pregnant woman in multiple dimensions by combining the information on the attributes of the pregnant woman, the information on the cardiac function examination, and the

information on the pulmonary function examination in the community obstetric examination data flow, obtains a comprehensive assessment index of the cardiopulmonary function based on the community obstetric examination data flow, and grades the cardiopulmonary function of the pregnant woman according to the comprehensive assessment index of the cardiopulmonary function, so as to facilitate real-time monitoring and analysing of the cardiopulmonary function of the pregnant woman.



21: 2024/00779. 22: 2024/01/23. 43: 2024/07/24 51: E04B; E04H

71: QILU INSTITUTE OF TECHNOLOGY

72: Lanying ZHAO, Lin TENG, Chuanwei DU,

Wajahat Sammer ANSARI, Shenghui ZHOU, Zihang WU, Xuyang LEI

#### 33: CN 31: 2023114953350 32: 2023-11-09 54: MODULAR ASSEMBLY-TYPE HOUSE QUICK-INSTALLATION STRUCTURE AND ASSEMBLY METHOD 00: -

The present invention relates to the field of modular house assembly and discloses a modular assembly house quick-installation structure and assembly method. The modular assembly house quickinstallation structure includes several reinforcement blocks, the outer wall of which on the left side is provided with protrusions, and the outer wall on the right side of the reinforcement blocks is provided with protrusions on both sides. The top surface of the reinforcement blocks is provided with a fixing groove, and the bottom surface is fixed with a fixing column. Several reinforcement blocks are connected through the protrusions and fixing columns. There are two walls composed of several reinforcement blocks. The top surface of the reinforcement blocks is provided with two accommodation grooves, and the bottom surface is fixed with two placement blocks. Both sides of the two wall panels that are close to each other are provided with two first slide grooves. In this invention, by splicing multiple reinforcement blocks together, the assembly of the house walls and wall panels can be quickly completed, which not only improves the assembly efficiency of the workers but also saves a significant amount of labor costs.



21: 2024/00811. 22: 2024/01/24. 43: 2024/07/24 51: E21D

71: THE TRUSTEES FOR THE TIME BEING OF THE TREVOR CHARLES FROST FAMILY TRUST 72: FROST, Trevor, Charles, THOMPSON, Kenneth, Mackay

33: ZA 31: 2023/01004 32: 2023-01-24 54: A STRESS CONCENTRATION DEVICE 00: -

According to the invention, there is provided a stress concentration device including a body having a first surface on which a load is applied, and a second

surface opposite the first surface for abutting an end region of an elongate member of a mine prop, the second surface having a smaller contact surface area than the end region of the elongate member for concentrating stresses in the elongate member as a result of the load (not shown).



21: 2024/00814. 22: 2024/01/24. 43: 2024/07/24 51: C07C; C07D; G01N 71: JILIN UNIVERSITY OF MEDICINE 72: YANG, Weilong, CHE, Yanrui, JIA, Boyan, XIU, Zhiming, WANG, Shujuan, TIAN, Yongheng, LIU, Jiaxue, WANG, Yangyang, HU, Cheng, JIN, Lili, ZHU, Liping

#### 54: METHOD FOR ANALYSIS AND PREPARATION OF DIACETYL COREY LACTONE AS CHIRAL INTERMEDIATE OF PROSTAGLANDIN DRUG 00: -

The present invention relates to a chromatographic analysis and separation method, and particularly relates to a method for analysis and preparation of diacetyl corey lactone as a chiral intermediate of a prostaglandin drug, belonging to the technical field of chemical raw material preparation. The present invention takes a chiral chromatography column coated with polysaccharide derivatives as a stationary phase, and a mixed solvent of n-hexane and ethanol as a mobile phase, and adopts normalphase chromatography for analysis and separation. The method enables simple, accurate and efficient analysis and preparation of enantiomers of single optically active diacetyl corey lactone, thereby achieving quality control.



21: 2024/00842. 22: 2024/01/25. 43: 2024/08/01 51: H04W 71: Beijing Youguo Technology Co., Ltd 72: RONG, GE, YU, CHENCHAO, LIU, SIZHONG 33: CN 31: 202311103680.5 32: 2023-08-30 54: DATA FORWARDING METHOD BASED ON SERIAL PROTOCOL FOR BLUETOOTH GATEWAY

#### 00: -

The present invention discloses a data forwarding method and system for a soft Bluetooth gateway. The method includes the following steps: Initialize the Bluetooth adapter and cyclically scanning all local paired Bluetooth serial devices; analyze the paired Bluetooth serial devices, obtain the device identifier, and determine whether the paired Bluetooth serial device has a valid device identifier; if so, extract the corresponding MAC address; open the serial port of the Bluetooth device, read the data in a loop and store it in the cache queue of the corresponding device; locate the key data in the cache queue of the device, extract the target information data according to the preset rules; forward the target information data according to the configured URI. The invention can be used manage concurrent connections and data flows in a LAN/WAN network where various Bluetooth serial ports sending data to centralized host.

Initializing the Bluetooth adapter and cyclically scanning all local paired Bluetooth serial port devices

Analyzes all paired Bluetooth serial device, obtains the device identifier, and determines the paired Bluetooth based on the device identifier whether the serial port device is a Bluetooth device, if so, extract the corresponding MAC address

Open the serial port determined to be a Bluetooth device, read the data cyclically and store it in the cache queue of the corresponding device

Locate the key data in the cache queue of the device, and extract the target information data according to the preset rules

Forward the target information data according to the configured URIs

21: 2024/00861. 22: 2024/01/25. 43: 2024/08/05 51: A61L; B01D; B01J; C02F; E03B; G05D 71: ROYAL SCIENTIFIC SOCIETY 72: CORDOVA, Kyle, ALMASSAD, Husam 33: US 31: 63/225,567 32: 2021-07-26 54: AN ATMOSPHERIC WATER GENERATING DEVICE AND A METHOD OF ACTIVE OR ADAPTIVE ATMOSPHERIC WATER GENERATION 00: -

There is provided an atmospheric water generator device and a method of adaptive atmospheric water harvesting comprising an air processing compartment having a heating member, a water adsorption/desorption compartment having a plurality of water adsorption beds configured to receive an air flow; a condensation compartment having a condenser; a water collection compartment; a controlling unit having a plurality of sensors configured to sense climate conditions, and a controller; and a power generation and storage unit configured to provide the air processing compartment, the water adsorption/desorption compartment, the condensation compartment, the water collection compartment and the controlling unit with the required electrical energy to operate, wherein the heating member in the air processing compartment is configured to heat the air flow

passing through the water adsorption/desorption compartment. The present disclosure also provides a method of generating water using the atmospheric water generator device.



#### 21: 2024/00863. 22: 2024/01/25. 43: 2024/08/01 51: A61F; A61M

71: Vikram Belkhode, Sharayu Nimonkar
72: Vikram Belkhode, Sharayu Nimonkar
33: IN 31: 202123038438 32: 2021-08-25
54: IMPROVED APPARATUS FOR TREATING
SLEEP DISORDERS
00: -

The present disclosure describes an improved apparatus for treating sleep disorders. The apparatus 100 can include a hollow plate 102, a bulge member 104, and an orifice 106. The hollow plate 102 can be defined by an upper portion 112 and a lower portion 114, with the lower portion 114 connected and being co-extensive with the upper portion 112. Further, the lower portion 114 can be detached/separated from the upper portion 112 whenever desired. The upper portion 112 can be configured to register along a maxillary surface of a subject. The bulge member 104 can be attached about an anterior portion 122 of the hollow plate 102 and is configured to enable resting of tongue of the subject. The orifice 106 can be disposed at an anterior portion 122 of the hollow plate 102 and is configured to allow airflow towards the posterior portion of the hollow plate 102.



21: 2024/00869. 22: 2024/01/25. 43: 2024/08/06 51: A61K; C07K; A61P 71: NETRIS PHARMA, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), UNIVERSITE CLAUDE BERNARD LYON 1, CENTRE LEON BERARD, HOSPICES CIVILS DE LYON 72: RICHAUD, Mathieu, WISCHHUSEN, Jennifer, NEVES, David, MEHLEN, Patrick, SARRUT, David, GIBERT, Benjamin, KRYZA, David 33: EP 31: 21306040.3 32: 2021-07-27 54: NETRIN-1 DETECTION, COMPANION TEST AND THERAPY BASED ON RADIATIONS 00: -

The present invention is based on the finding that Netrin-(1) is retained in a stickier manner in the cell matrix at the cell periphery of the cancer cells, whereas Netrin-(1) is expressed in adults specifically in some tumors. It is also shown herein that Netrin-(1) is expressed very early during tumor formation. This makes Netrin-(1) an unexpected very specific target for imagery and/or targeted therapy. The present invention thus relates to compounds comprising an anti-Netrin-1 antibody, especially NP(137), a chelating moiety, optionally associated with a radioisotope, and their use either in imagery, diagnosis, especially companion diagnosis, or in targeted therapy. New diagnostic tests, which may be companion tests, and new cancer therapies, that may be combined to the companion test, are also proposed.

51: H04B; H04W

71: GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD

72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang, YANG, Dingguang

54: HEALTH MANAGEMENT SYSTEM BASED ON MOBILE COMMUNICATION 00: -

The present invention discloses a health management system based on mobile communication, which is applied to the technical field of health data management. The health management system comprises: a user communication module, configured to connect a user with a mobile communication device and acquire user health information data; a database establishment module, configured to establish a basic user health information database according to the acquired user health information data; a model establishment module, configured to establish a human digital twin model according to the user health database; a health management plan module, configured to design a user health management plan according to the human digital twin model and a user health status; and a user module, configured to provide service information to the user according to the user health management plan. According to the present invention, all modules are interconnected, so that the health management problem of the user is greatly reduced, the health information data of the user is reasonably analyzed, and a health management plan is formulated, thereby providing safe and reliable service information to the user.

21: 2024/00877. 22: 2024/01/26. 43: 2024/09/10



21: 2024/00879. 22: 2024/01/26. 43: 2024/09/10 51: G01V; H03M 71: INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMALHUSBANDRY

SCIENCES 72: WANG, Baolin, WU LAN, Tuya, GUO, Baomin, BAO, Junwei, JI, Shiyu, GUO, Shuting, Tingting REN 54: A REMOTE SENSING DETECTION AND EVALUATION METHOD FOR SALINE-ALKALI LAND

#### 00: -

The present invention discloses a remote sensing detection and evaluation method for saline-alkali land, and relates to the technical field of remote sensing, comprising the steps of: obtaining radar remote sensing data in a sample area and preprocessing, dividing the area into multiple subareas to determine sampling coordinates, collecting and detecting samples, clustering to obtain a sampling subarea sample label, computing the radar data of the subareas, counting the frequency and peak of absorption peaks as subarea sample characteristics, establishing a radial basis function neural network for sample data set training, and detecting the target area after the training is complete. The present invention can accurately and effectively detect and evaluate the degree of salinization in an area to be detected, so that the area can be treated in a targeted manner.

S1: Obtaining radar remote sensing data in a sample area and preprocessing, dividing the area into a plurality of subareas to obtain the subarea radar data S2: Determining sampling coordinates according to the subarea radar data, collecting and detecting samples to obtain normalized detection data, further obtaining a sample label of the sampling subarea \* S3: Computing each subarea radar data by the continuum removal method, counting the frequency and peak of absorption peaks as the sample characteristics of each subarea S4: Taking the sample label and the corresponding sample characteristics as the sample data to obtain a sample data set, dividing the data set into a training set and a test set × S5: Initializing the radial basis function neural network, inputting the sample data in the training set for iteration to obtain a trained radial basis function neural network after the accuracy reaches a threshold by testing with the test set ¥ S6: Obtaining the sample characteristics of each subarea in the target area according to S1 and S3, inputting into the trained radial basis function neural network to obtain an interval of the saline-alkali content of each subarea in the target area, further obtaining a salinization thermodynamic chart of the target area

#### 21: 2024/00890. 22: 2024/01/26. 43: 2024/08/01 51: C08L

71: Shandong Agricultural University

72: Xu Zhixiang, Chen Yongfeng, Sun Yufeng, Wang Ximo, Zhang Hengjian

#### 33: CN 31: 2023115133293 32: 2023-11-14 54: ZN-CUGAO2@CMK-3 COMPOSITE MATERIAL, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF 00: -

The present invention discloses a Zn-

CuGaO2@CMK-3 composite material, a preparation method therefor and an application thereof, where Ga(NO3)3 xH2O, Cu(NO3)23H2O, Zn(NO3)26H2O and CMK-3 are dispersed into a mixture composed of deionized water, ethylene glycol, and a KOH solution to obtain a precursor dispersion; and the precursor dispersion is subjected to a reaction at 180-220C, and a resulting product is washed and dried to obtain the Zn-CuGaO2@CMK-3 composite material. The Zn-CuGaO2@CMK-3 composite material of the present invention has advantages such as large specific surface area, good electroconductivity and good catalytic performance, and an electrochemical sensor using the present invention shows the lowest detection limits of 0.044 micromol/L and 0.059 micromol/L for sunset yellow

and tartrazine, respectively, which can meet the requirements of detection.



- 21: 2024/00893. 22: 2024/01/26. 43: 2024/09/10
- 51: A47B; B60R
- 71: Guanwen WANG
- 72: Guanwen WANG

33: CN 31: 2023109663822 32: 2023-08-02 54: DRAWER TRACK COMBINING EXTRUDED ALUMINUM PROFILES AND SPHERICAL BEARINGS, AND VEHICLE-MOUNTED STORAGE DRAWER THEREOF

00: -

The present disclosure relates to the technical field of vehicle-mounted movable drawers, and in particular, to a drawer track combining extruded aluminum profiles and spherical bearings, and a vehicle-mounted storage drawer. The drawer track includes a movable sliding rail plate and a bearing fixing plate which are mutually guided and are in sliding fit; the movable sliding rail plate and the bearing fixing plate are both made of extruded aluminum profiles; a hollow sliding rail is extruded and formed on one side of the movable sliding rail plate, and curved slideways are formed by inward sinking along an upper part and a lower part of the hollow sliding rail; the bearing fixing plate is rotatably connected with a plurality of outer spherical bearings corresponding to the curved slideways; the bearing fixing plate is extruded to form a thickened bar; the outer spherical bearings are rotatably connected to the thickened bar; and the outer spherical bearings have outer spherical surfaces in close fit with the curved slideways. The stability of operation of the drawer track is guaranteed, and a weight of the

drawer is less than a weight of an iron drawer; and a fixed framework, a movable drawer, and a movable panel can be sold to a customer separately, so as to achieve the purposes of facilitating transportation, reducing the packaging cost, and reducing the inventory cost.



21: 2024/00895. 22: 2024/01/26. 43: 2024/09/10 51: H03F; H04L

71: GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD

72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang

#### 54: SYSTEM FOR MANAGING HEALTH DATA UTILIZING RADIO FREQUENCY CHIP 00: -

The present disclosure discloses a system that utilizes a radio frequency chip to manage health data. The monitoring device collects and sends monitoring information to the local terminal, the reading device reads and writes the data from the radio frequency chip and send the radio frequency chip information to the local terminal, the radio frequency chip binds with user information, the local terminal stores and matches the received monitoring information and the radio frequency chip information to obtain the user health condition management information and sends the user health condition management information to the server; and the server stores and sends the user monitoring management information to the background management terminal. The monitor device and the reading device are respectively in communication connection with the local terminal, the local terminal is in communication connection with the server, and the server is in communication connection with the background management terminal.



21: 2024/00898. 22: 2024/01/26. 43: 2024/09/10 51: G01S

## 71: GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD

72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang

## 54: CROSS-SATELLITE ORBIT HEALTH DATA TRANSMISSION SYSTEM

#### 00: -

The present invention discloses a cross-satellite orbit health data transmission system, and belongs to the technical field of satellite communication. The system comprises: a health data collection terminal, configured to collect health data and send a data transmission request; a terminal verification module, configured to receive the data transmission request and verify the health data collection terminal; a satellite network monitoring module, configured to acquire state information of satellites in a satellite network and construct a satellite network routing table according to the state information; and a data transmission module, configured to transmit the health data according to a check result and the satellite network routing table. The present invention can detect fault events of each satellite in the satellite network in time, reduce the pressure of the congested satellite nodes in the satellite network, and improve the transmission efficiency of the health data based on satellite communication.



21: 2024/00900. 22: 2024/01/26. 43: 2024/08/08 51: E21B

71: LONGYEAR TM, INC.

72: CLAUSEN, Paul, FOX, Shane, GAGNE, Lee, CORBOY, Steve, MORONEY, Geoff, BARRETT, David

#### 33: US 31: 62/826,377 32: 2019-03-29 54: UNDERGROUND DRILL RIG AND SYSTEMS AND METHODS OF USING SAME 00: -

A drill rig having a longitudinal drilling axis, a front portion, and a rear portion can comprise a feedframe aligned with the longitudinal drilling axis, a first head assembly coupled to the feedframe and configured to rotate a drill string, and a rod holder proximate the front portion of the drill rig. A second head assembly can be movable on the feedframe along the longitudinal axis and can include a powered water swivel assembly comprising a spindle having an interior bore a drill rod connector at a first end of the spindle, a motor that is configured to rotate the spindle, a clutch configured to disengage the motor from the spindle, a gearbox that couples the motor to the spindle, and a water swivel that is configured to provide drilling fluid to the interior bore of the spindle.


21: 2024/00901. 22: 2024/01/26. 43: 2024/09/10 51: H04L; H04N 71: GUIZHOU YOUPIN SLEEP HEALTH

INDUSTRY CO., LTD

72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang

## 54: METHOD FOR QUBIT-BASED MANAGEMENT OF SLEEP DATA

#### 00: -

The present invention discloses a method for gubitbased management of sleep data, and relates to the technical field of data processing. The method includes: using a sleep monitor to collect a plurality of sets of sleep data of a user, and pre-processing the plurality of sets of sleep data; analyzing features of the plurality of sets of preprocessed sleep data to obtain comprehensive evaluation data of sleep monitoring; distributing a security key to the comprehensive evaluation data of sleep monitoring, and using a quantum processor to analyze the comprehensive evaluation data of sleep monitoring after distributing the security key to obtain evaluation results of the user's sleep quality; and sending the evaluation results of the user's sleep quality to an intelligent terminal for the user to view. The present invention obtains the comprehensive evaluation data of sleep monitoring specific to a plurality of types of sleep, and makes a qubit-based analysis, which can improve a data transmission speed, improve efficiency and accuracy of quantum computing, and ensure effectiveness and completeness of data.



## 21: 2024/00935. 22: 2024/01/29. 43: 2024/08/01 51: H05K

71: Jiaxing Vocational and Technical College 72: Xinjie Fu

#### 54: NETWORK SECURITY PROTECTION TERMINAL 00: -

## The utility model discloses a network security protection terminal, which comprises a terminal protection shell and a drawer. The drawer is movably connected to the terminal protection shell. A pair of first waist holes is symmetrically arranged on both sides of the terminal protection shell, and a pair of second waist holes is symmetrically arranged on the side of the drawer. When the drawer is inserted into the terminal protection shell, the second waist holes and the first waist holes are staggered. The movement of the drawer towards the front end of the terminal protection shell causes the second waist holes to coincide with the first waist holes, forming an air outlet. The drawer is provided with a heat dissipation air passage, and a fan is installed on the heat dissipation air passage. The ends of the heat dissipation air passage cover the second waist holes, and the surface of the heat dissipation air passage is covered with a perforated tray. When the protective terminal or internal components are installed on the tray, the heat generated by the protective terminal can be expelled through the air outlet formed by the coincidence of the second waist

holes and the first waist holes by utilizing the heat dissipation air passage. This effectively prevents external dust from affecting the interface of the protective terminal, and ensures that the protective terminal remains unaffected by dust, preventing short circuits and other issues during heat dissipation.



21: 2024/00941. 22: 2024/01/29. 43: 2024/08/01 51: G01N

71: Hebei Chemical & Pharmaceutical College 72: Yun Cui

## 54: SOIL INFORMATION ACQUISITION AND FEEDBACK DEVICE BASED ON INTERNET OF THINGS

00: -

The present disclosure discloses a soil information acquisition and feedback device based on Internet of Things, and belongs to the technical field of soil detection. The device includes a support and an acquisition mechanism. The acquisition mechanism includes positioning nails, a fixing frame, a rotary barrel, a drill bit, an acquisition assembly, a rotating assembly, an adjusting assembly and limiting assemblies. The support can be fixed in position by the positioning nails at a bottom end of the support, such that the support is kept stable; the rotary barrel and the drill bit on the fixing frame can rotate through the rotating assembly, the fixing frame can stably move through the adjusting assembly and the limiting assemblies, the rotary barrel and the drill bit can conveniently extend into soil, and an extendingin depth can be adjusted; and detection probes can extend out of the rotary barrel through the acquisition assembly, which can conveniently make contact with the soil, and the operation and use are convenient.



21: 2024/00950. 22: 2024/01/29. 43: 2024/08/01 51: C12N

71: CIBUS EUROPE B.V.

72: WILLIAMS, Robert W., WIXON, Sara 33: US 31: 63/219,291 32: 2021-07-07 54: TRANSCRIPTION ACTIVATOR-LIKE EFFECTORS FUSED TO INTEINS 00: -

Embodiments of the present disclosure are directed to a plurality of nucleotide sequences encoding a first intein fused to at least a portion of a first transcription activator-like effector (TALE), a second nucleotide sequence encoding the first intein fused to at least a portion of a second TALE, and a third nucleotide sequence encoding a second intein fused to at least a portion of a rare-cutting nuclease.



21: 2024/00978. 22: 2024/01/30. 43: 2024/08/01 51: C02F

71: Changsha Institute of Mining Research, Co., Ltd 72: Shiping Xie, Zhu Yang, Lei Xu, Weigong Yi, Chao Gao, Chengmin Zhu

33: CN 31: 202310976994.X 32: 2023-08-04 54: A ZONING WATER PREVENTING METHOD FOR HEAVY-WATER DEPOSITS 00: -

The present invention is designed for heavy-water deposits where the surrounding rocks are not uniformly rich in water and the ore body dispersion is not continuous. The present invention divides the discontinuously dispersed ore bodies and ore

sections with surrounding rocks of uniform water yield property into multiple treatment zones. Simultaneously, by drilling probe holes and performing watering and dewatering tests, pressuring water test, etc., the zones are further divided into the above-moderate water-rich zones and the weak water-rich zones. For the abovemoderate water-rich zones with poor injectability, water resisting pillars or rock columns are constructed, while for the rest of above-moderate water-rich zones, curtain grouting method is applied. In this way, both the water plugging and the safe mining can be achieved, while the engineering cost is reduced, the workable deposits can be released earlier to facilitate the mining mass production.



#### 21: 2024/01023. 22: 2024/01/31. 43: 2024/09/03 51: A41D

- 71: KHAN, Nadeem
- 72: KHAN, Nadeem

33: ZA 31: 2023/02177 32: 2023-02-22 54: SUN PROTECTIVE SPORTS GARMENT

00: -

The invention provides a sun protective sports garment which includes a sleeveless torso portion, made of a first fabric, which is adapted to cover a wearer's torso, and which has a neck aperture, and a pair of armholes, a pair of elongate sleeve portions, made of a second fabric, each having a tubular body, and each extending between an armhole end and a wrist end, wherein each sleeve portion is attached at its armhole end to the respective armhole of the shirt portion.



21: 2024/01042. 22: 2024/01/31. 43: 2024/08/05 51: A61K; A61P 71: UNICHEM LABORATORIES LIMITED

72: SATHE, Dhananjay, MISHRA, Vivek, JOG, Sunil, BAKSHI, Gautam

33: IN 31: 202121039213 32: 2021-08-30 54: PROTEIN COMPOSITIONS FOR THE TREATMENT OF INFLAMMATORY DISEASES 00: -

The present invention relates to the pharmaceutical compositions of lectin proteins and its use for the prevention, treatment and cure of inflammation, including inflammatory disease. The invention specifically relates to the pharmaceutical compositions for topical application comprising lectin proteins and its use for prevention, treatment and cure of inflammation due to chemotherapy and/or radiotherapy. The lectin may comprise an amino acid sequence having sequence of SEQ ID NO: 1 or at least 70% homology to SEQ ID NO: 1.

21: 2024/01063. 22: 2024/02/01. 43: 2024/08/08

51: C12Q

71: Xinjiang Agricultural University

72: Huijun SHI, Qiang FU, Haoran LIU, Yu WANG, Siqi MA, Xinyi LIU, Yan ZHAO, Xinyuan LIU, Yingxin LI, Rezeguli AIKEBAIER

#### 54: A VISUAL DETECTION METHOD OF BOVINE CORONAVIRUS AND APPLICATION THEREOF 00: -

The present invention discloses a visual detection method of Bovine coronavirus and application thereof, which relates to the field of biotechnology. According to the design principle of RAA primers, a pair of specific RAA primers are designed based on the gene of a highly conserved region of BCoV. The RAA technology is combined with CRISPR/Cas12a to establish an RAA-CRISPR/Cas12a detection method, and the results are judged by observing fluorescence under blue light. The present invention adopts the above visual detection method of Bovine coronavirus and application thereof, this method has no cross-reaction with a variety of bovine common pathogenic microorganisms such as BVDV, BEV, E.coli and Salmonella, and has good specificity and high sensitivity, it can detect samples with small viral load, and the minimum detection limit is 5copies/microliter.



#### 21: 2024/01069. 22: 2024/02/01. 43: 2024/08/30 51: B65B

71: THREE NIGHT OWLS (PTY) LTD

72: WOODLEY, Ryan

33: ZA 31: 2022/11880 32: 2022-11-01 54: DEVICE FOR USE IN A RETAIL PRODUCT

DISPLAY AND SHELF ORGANIZATION

The invention provides a display assembly for enhanced organization and efficient restocking of retail units having a base with front and back ends, a rotatable retaining member connected to the front end via a fixing arrangement, a biasing member, a zone, for accommodating various products for display, defined between the retaining 5 member and the biasing member, a volume of the zone being adjustable by sliding the biasing member along a track within the base wherein the retaining member can easily switch between a loadable state for restocking and a retaining state for product display.

#### 21: 2024/01111. 22: 2024/02/05. 43: 2024/08/08 51: G09B 71: HUZHOU COLLEGE 72: Liwei QI, Ling ZHU 54: A LINEAR ANALYSIS DISPLAY DEVICE FOR ECONOMIC MANAGEMENT

#### 00: -

The disclosure provides a linear analysis display device for economic management, comprising: a height adjusting mechanism including a support bottom plate, a height adjusting frame mounted on a surface of the support bottom plate, a support center plate mounted on a top of the height adjusting frame, a first drive gear rotationally connected to a top of the support center plate, a support upper plate fixedly connected to the top of the first drive gear, and a plurality of self-locking universal wheels mounted on the bottom of the support bottom plate; and a function display mechanism including a protective box mounted on a top of the supporting upper plate, a moving plate slidingly connected to an inside of the protective box, a mounting seat installed on a surface of the moving plate, a protective cover slidingly connected to the surface of the protective box, a drive box installed on each side of the mounting seat, a first rotating shaft rotationally connected to a surface of the drive box, and an intelligent display screen fixedly connected on a surface of the first rotating shaft, and a speaker installed on each side of the protective box.



21: 2024/01128. 22: 2024/02/05. 43: 2024/08/08 51: B07B: C12Q

71: HANGZHOU CITY UNIVERSITY

72: Haijun HAN

## 54: PROGNOSTIC BIOMARKER FOR HNSCC AND SCREENING METHOD AND APPLICATION THEREOF

00: -

The present invention provides a prognostic biomarker for head and neck squamous cell carcinoma (HNSCC) and a screening method and an application thereof, and belongs to the technical field of gene detection. The biomarker includes one or more of a hyaluronan-mediated motility receptor (HMMR) gene, a Cell Division Cycle 25C (CDC25C) gene and a PCNA Clamp Associated Factor (PCLAF) gene, further including hypermethylation at a cg15122828 or cg20554926 site of a target gene HMMR, hypermethylation at a cg12519992 site of a target gene CDC25C, and hypomethylation at a cg26155739 site of a target gene PCLAF. The biomarker of the present invention is significantly correlated with the prognosis of HNSCC, and can serve as a biomarker for prognostic diagnosis of HNSCC.



21: 2024/01129. 22: 2024/02/05. 43: 2024/08/23 51: G01N

71: HAINAN MEDICAL UNIVERSITY 72: GUO, Junli, CHENG, Ziyi, LIU, Xiaoran 33: CN 31: 202311126826.8 32: 2023-09-04 54: A MICROFLUIDIC CHIP AND ITS APPLICATIONS 00: -

This invention presents an integrated multifunctional microfluidic chip and its applications, pertaining to the field of biosensing technology. Innovatively, a new microfluidic chip is designed, utilizing it to cover the entire process from droplet generation, mixing, amplification, to magnetic separation and highthroughput Surface-Enhanced Raman Scattering (SERS) detection, achieving high-precision miRNA detection. The chip, with its outstanding specificity, high stability, and significant reproducibility, provides a powerful tool for research and clinical applications. Notably, in practical applications, this microfluidic platform has been successfully used to detect dualtarget miRNA markers in IPF patients, including miR-21 and miR-155. These markers are highly correlated with different stages of IPF, providing a robust analytical basis for early diagnosis, intraoperative monitoring, and prognosis improvement in IPF. This not only simplifies the operation process but also ensures high repeatability and accuracy.



21: 2024/01135. 22: 2024/02/05. 43: 2024/08/08 51: H01R

71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.

72: WANG, Chao

## 33: CN 31: 202110991360.2 32: 2021-08-26 54: TRANSFER MECHANISM FOR POWER TRANSMISSION, CHARGING SOCKET, AND MOTOR VEHICLE

00: -

The present invention provides a transfer mechanism for power transmission, a charging socket, and a motor vehicle. The transfer mechanism for power transmission comprises a power transmission part, a transfer part, and a cable. The power transmission part comprises an insertion and pulling end and a connecting end which are connected in sequence. The cable comprises an inner guide core and an insulating layer wrapping the guide core. The transfer part comprises a first end, a bending part, a second end which are connected in sequence. The first end is electrically connected to the connecting end. The second end is electrically connected to the guide core on one end of the cable. The bending part comprises at least one bending region. According to the transfer mechanism for power transmission of the present invention, non-coaxial or angled connection of a terminal and the cable can be realized, the copper material used by the terminal can be reduced, and the cost of the terminal is reduced.



21: 2024/01137. 22: 2024/02/05. 43: 2024/08/08 51: C08K; C08L 71: ASIMCO NVH TECHNOLOGIES CO., LTD.

(ANHUI)

72: HU, Jianqiang

#### 33: CN 31: 202210786314.3 32: 2022-07-04 54: SELF-LUBRICATING HIGH-DURABILITY NATURAL RUBBER MATERIAL AND PREPARATION METHOD THEREFOR 00: -

The present invention relates to a self-lubricating high-durability natural rubber material and a preparation method therefor, which belong to the technical field of rubber materials. The selflubricating high-durability natural rubber material includes the following raw materials by weight: 100 parts of natural rubber, 5-10 parts of zinc oxide, 1-3 parts of stearic acid, 3-6 parts of an anti-aging agent, 2-5 parts of composite paraffin, 3-8 parts of a lubricant, 3-5 parts of a coupling agent, 20-40 parts of fumed silica, 20-40 parts of carbon black N550, 1-4 parts of sulfur, 1-4 parts of an accelerator and 0-0.5 part of N-cyclohexyl thiophthalimide. In a formula of the present invention, the composite paraffin and the fatty acid amide lubricant form a self-lubricating system, such that an abnormal sound of a product can be effectively eliminated. In the formula of the present invention, the fumed silica and the carbon black N550 are selected to be used together, such that mechanical properties of the natural rubber material can be effectively improved. Three components of the anti-aging agents mutually cooperate and are used together, such that durability of the natural rubber can be effectively improved.

21: 2024/01153. 22: 2024/02/05. 43: 2024/08/08 51: A24B; A24D; B01J 71: V. MANE FILS 72: GAUDIN, Luc 33: FR 31: 2107521 32: 2021-07-09

#### 54: FLAVORED CORE-SHELL CAPSULES FILM-COATED WITH POLYVINYLIDENE CHLORIDE 00: -

The present invention relates to a seamless breakable capsule of core-shell type, - the shell comprising a hydrocolloid, - the core comprising a flavor and a lipophilic solvent, characterized in that said shell is coated with a film coating layer that gives it water resistance, said film coating layer comprising polyvinylidene chloride; an oral use pouch containing said capsule, a consumable product containing said capsule, a tobacco device to be heated containing said consumable product, a process for manufacturing said capsule, the use of said capsule as an agent for immediate and sustained release of a flavor and a method for flavoring an oral use pouch.

21: 2024/01157. 22: 2024/02/06. 43: 2024/08/15 51: C25B

71: Taiyuan University of Science and Technology 72: ZHANG Ke, MA Tao, HE Qiusheng, TIAN Wenyan, REN Weijie, CUI Yang 54: CARBON DIOXIDE MICROCHANNEL ELECTROLYSIS DEVICE AND METHOD 00: -

The invention provides a carbon dioxide microchannel electrolysis device and method, which comprises an electrolytic cell and a power supply electrically connected with the electrolytic cell; the electrolytic cell comprises a left end plate, a left end plastic plate, a first gasket, a flaky anode, a second gasket, an anode electrolytic plate, a third gasket, an anion exchange membrane, a fourth gasket, a cathode electrolytic plate, a fifth gasket, a gas diffusion electrode, a flaky cathode, a sixth gasket, a right end plastic plate and a right end plate which are stacked in sequence and fixed by fixing bolts; and the left end plate is connected with a cathode inlet and a cathode outlet, an anode inlet and an anode outlet. According to the invention, the problem of limited CO2 mass transfer in the traditional Hshaped electrolytic cell is solved; compared with the conventional trough electrolytic cell, the microchannel electrolytic plate has larger specific surface area, higher mass transfer coefficient, shorter diffusion distance and longer residence time; and the gas diffusion electrode is combined with the microchannel electrolytic plate, so that the mass

transfer efficiency of CO2 and the diffusion rate of product gas are further improved.



21: 2024/01158. 22: 2024/02/06. 43: 2024/08/15 51: A01G

71: Taiyuan University of Science and Technology 72: TIAN Huixia, LI Qianyao, DING Qingwei 54: PLANT PLANTING TANK FOR ECOLOGICAL RESTORATION

00: -

The invention discloses a plant planting tank for ecological restoration, which relates to the technical field of agricultural machinery. The plant planting tank comprises a frame assembly, a connecting assembly and a sprinkler, where the frame assembly is in a trapezoidal platform structure; the frame assembly comprises water leakage plates; the array of the water leakage plates is provided with a plurality of square through holes; rectangular frames are connected around the water leakage plates; four support rods are connected at the top corners of the rectangular frames; four tapered legs are connected below the four support rods; two first water pipes and two second water pipes are positioned and connected above the four support rods through top corners, and circular through holes are arranged on the inner sides of the two first water pipes and the second water pipes, and four conveying pipes are connected at the middle positions of the outer sides of the two first water pipes and the second water pipes. The invention relates to a plant planting tank for ecological restoration, which has good irrigation effect, is convenient to move and transport, can be used for fixing the destination, and has the advantages of low cost of the whole structure, simple operation, and time and labor saving.



21: 2024/01159. 22: 2024/02/06. 43: 2024/08/15 51: H02J

71: Henan University of Urban Construction 72: ZHANG Renqi, CUI Mingming, ZHANG Jiachen, HUANG Xiaoya, WANG Wenfang, XU Huafeng, WANG Mengke, WANG Huanli, DOU Cheng, QI Fuhao, WANG Menghao, YE Mengna, SHI Ke, LAI Yuanfeng, ZHANG Pengran

#### 54: PHOTOVOLTAIC POWER SUPPLY SYSTEM FOR LARGE PUBLIC BUILDINGS 00: -

The invention discloses a photovoltaic power supply system for large public buildings, which comprises a power supply module for converting light energy into electric energy and storing it, a data monitoring module used to monitor the indoor and outdoor temperature and light intensity of public buildings, a regulation module used for controlling the air conditioning and lighting facilities in the public building, a distribution box module used for supplying power to the load in the public building; an intelligent power supply module used for distributing the electric energy provided by the power supply module and the distribution box module; the power supply module, data monitoring module, regulation module, distribution box module and intelligent power supply module exchange information based on digital signals. The invention combines the monitoring technology with the automatic control technology to provide a monitoring solution for the integrated application of large public buildings and photovoltaic power generation.



#### 21: 2024/01161. 22: 2024/02/06. 43: 2024/08/15 51: C04B

71: Ningxia Jiyuan Juntai New Material Technology Co.Ltd., Ningxia Jiyuan Metallurgical Group Co.,Ltd., University of Science and Technology Beijing 72: MO Ruihao, WU Pengfei, MO Junning, MO Junhong, ZHANG Suxian, WANG Jie, QIU Zhiqiang, ZHANG Yanbin, WANG Zhiqing, YANG Jiaqing 33: CN 31: 2023114467691 32: 2023-11-02 54: LOW-CARBON CEMENTITIOUS MATERIAL OF SILICON-MANGANESE SLAG FOR FILLING, PREPARATION METHOD AND APPLICATION THEREOF 00: -

The invention discloses a low-carbon cementitious material of silicon-manganese slag for filling, a preparation method and application thereof, belonging to that technical field of underground filling of metal and nonmetal mines, and comprises the following raw materials in parts by mass: 40-80 parts of silicon-manganese slag micropowder, 20-40 parts of blast furnace slag micropowder, 5-15 parts of

carbide slag, 10-20 parts of by-product gypsum and 0.2-1 part of admixture. According to the invention, various industrial solid wastes mainly made of silicon-manganese slag are used as raw materials, and cement clinker is not needed to be added, so that the low-carbon cementitious material made of silicon-manganese slag for filling is prepared, the secondary utilization of industrial solid wastes is realized, the CO2 emission is reduced, and the method is low-carbon and environment-friendly, and the problem of high cost caused by using superfine tailings and ordinary cement as cementing agents to prepare filling materials is solved.

21: 2024/01164. 22: 2024/02/06. 43: 2024/08/15 51: H02S

71: Henan University of Urban Construction 72: ZHANG Renqi, YANG Ruijuan, ZHANG Pengran, ZHANG Feipeng, DONG Haipeng, XU Huafeng, WANG Mengke, WANG Huanli, DOU Cheng, QI Fuhao, WANG Menghao, YE Mengna, ZHANG Jiachen, SHI Ke, LAI Yuanfeng

#### 54: PHOTOVOLTAIC GRID-CONNECTED POWER GENERATION SYSTEM FOR RURAL USERS 00: -

The invention discloses a photovoltaic gridconnected power generation system for rural users, which comprises a photovoltaic array, an electric control room, an inverter and a distribution network entry line; the photovoltaic array is used for emitting direct current and sending the direct current to the inverter; the inverter is used for converting direct current into alternating current: the electric control room is used to connect the alternating current to the distribution network entry line in a grid-connected way of spontaneous self-use and surplus electricity access; the distribution network entry line is used to transmit alternating current to the public power grid. The user-side photovoltaic smart microgrid built on the roof of rural houses effectively solves the contradiction between energy and environment, effectively uses the land on the roof of rural houses, better solves the contradiction between developing new energy and occupying a large amount of land, and can also solve the problems of unstable rural domestic electricity consumption caused by insufficient off-grid photovoltaic power generation, and can also be consumed locally to offset a part of online shopping electricity, thereby saving the

electricity bill of users and completely solving the problem of rural domestic operating expenses.



21: 2024/01165. 22: 2024/02/06. 43: 2024/08/15 51: H01G

71: Tianjin University of Science and Technology 72: Ting XU, Chuanling SI, Wei LIU, Kun LIU, Xuan WANG, Yaxuan WANG, Wei LI

## 54: WOOD-BASED POROUS CARBON FOR HIGH PERFORMANCE ENERGY STORAGE DEVICE 00: -

The invention relates to a preparation method of nitrogen self-doped wood carbon electrode material which has never been reported in literature. Wood is the most widely used biomaterial because of its unique characteristics such as reproducibility, layered porous structure and mechanical stability, and can be used to prepare macro materials with multi-layered structure on a large scale. In the invention, the carbon electrode material of nitrogen

self-doped wood is prepared by carbonizing and activating the precursor of natural Thuja sutchuenensis wood for the first time. That is to say, by using the nitrogen element, macro-structure and micro-structure retained after carbonization, the pore structure of biomass carbon electrode material is designed reasonably by further activation, and Thuja sutchuenensis wood carbon electrode material with high specific surface area and high electrochemical performance is prepared. This preparation method does not need to add additional nitrogen source, and the preparation process is simple, which has important practical significance for promoting the research and development of green wood-based carbon materials with excellent electrochemical properties.

21: 2024/01179. 22: 2024/02/06. 43: 2024/08/15 51: A61M

71: CUROTHERM TECHNO SOLUTIONS LLP
72: MEHTA, Nirav, AGRAWAL, Palkesh
33: IN 31: 202121031193 32: 2021-07-12
54: A DEVICE FOR DELIVERY OF AEROSOLIZED
DRUG IN A PORTION OF A BODY
00: -

A device, for delivery of aerosolized drug in a portion of a body, comprising: a nozzle (100) comprising a head portion extending, distally, into an elongate shaft (108), said head portion comprising: piezoelectric transducers (104, 106) mounted between electrically conductive electrode discs (103, 105), said piezoelectric transducers (104, 106) creating capillary waves in a liquid film causing atomization of drug/s while passing through said nozzle (100); an aperture (101) on said nozzle (100), through which tubing (112) is connected, said aperture (101) follows through with a passage (300) ensconced in said elongate shaft (108), and passing through said piezoelectric transducers (104, 106) and said electrically conductive electrode discs (103, 105) in order to allow passage of drug received through said tubing (112); and said elongate shaft (108) supporting a body member (107) at its operative proximal end and having an opening (109), said drug being dispensed through said opening (109).



21: 2024/01190. 22: 2024/02/07. 43: 2024/08/15 51: G01N

71: Tianjin University of Science and Technology 72: Ting XU, Chuanling SI, Wei LIU, Kun LIU, Han ZHANG, Meng ZHANG, Qingshuang ZHAO 54: SUPERHYDROPHILIC AND COMPRESSIBIE AEROGEL WITH REGULAR PORE ARCHITECTURE FOR SENSOR

00: -

The invention relates to a preparation method of a carbon nanotubes/MXene composite aerogel with superelastic tracheid structure, which has never been reported in the literature, and belongs to the field of polymer nano composite materials. According to the invention, nanocellulose from biomass is used as a structural support unit, hydrogen bonding between nanocellulose and MXene is utilized, stacking of MXene nanosheets

can be avoided through electrostatic repulsion between carbon nanotubes and MXene, and the intertwined nanocellulose/carbon nanotubes promote the formation of a tracheid structure, so that the carbon nanotubes/MXene composite aerogel with high elastic tracheid structure not only has superelastic mechanical properties, but also has excellent electrical conductivity, which further broadens the application field of MXene-based aerogels and conforms to the concept of sustainable development of contemporary new energy.



21: 2024/01191. 22: 2024/02/07. 43: 2024/08/15 51: G05B 71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY 72: NIU Xiaojie, YAN Chuanyong, ZHANG Lei, SUN Tao, CHEN Qunyu, ZHANG Yu, LI Mengxin

#### 54: SYSTEM AND METHOD FOR LOCATING SURFACE DAMAGE OF LARGE-SCALE EQUIPMENT BASED ON UWB TECHNOLOGY 00: -

The application discloses a system and a method for locating surface damage of large-scale equipment based on UWB technology, wherein the system part comprises an acquisition module, a transmission module, a processing module and a training module; the acquisition module is used for acquiring image data; the transmission module is used for transmitting the image data to the processing module; the processing module is used for preprocess that image data signal to obtain processed data; the training module is used for train that processed data, constructing an identification model, and locating the surface damage by use the identification model. The application adopts UWB technology to provide faster and more accurate signal transmission and measurement capabilities, and can improve the positioning accuracy and identification accuracy of equipment surface damage. At the same time, the improved YOLOv7 network is used to solve the problems of too small target and inaccurate detection in image feature research.



21: 2024/01198. 22: 2024/02/07. 43: 2024/08/15 51: C12N

71: CROP RESEARCH INSTITUTE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES 72: LI, Jihu, LI, Genying, LI, Yulian, GAO, Jie, SONG, Guoqi, ZHANG, Shujuan, ZHANG, Rongzhi, LI, Wei, LIN, Yanxiang 33: CN 31: 202310639011.3 32: 2023-05-31

## 54: METHOD FOR ACTIVATING EXPRESSION OF SILENCED GLU-1AX-NULL SUBUNIT IN WHEAT AND RELATED BIOMATERIALS

00: -

The present invention provides a method for activating expression of a Glu-1Ax-null subunit in wheat by gene editing, the method comprising: designing a specific sgRNA for targeting a premature termination codon in a Glu-1Ax-null gene of wheat; cloning the specific sgRNA into a pair of Bsal sites of a vector pEtRNA to construct a CRISPR/SpCas9 editing vector for the Glu-1Ax-null gene; and transforming the CRISPR/SpCas9 editing vector for the Glu-1Ax-null gene into wheat cell via Agrobacterium-mediated transformation and selecting a homozygous line in which the premature termination codon is disrupted. The inventive specific sgRNA is designed near the 1216-1218-site premature termination codon of the Glu-1Ax-null gene, the CRISPR/SpCas9 editing vector is transformed into wheat via Agrobacterium-mediated transformation, and the premature termination codon can be specially disrupted, thereby activating expression of silenced high-molecular-weight glutenin Glu-1Ax-null subunit in wheat.

## M Fielder L4-2 L6-5 L7-4



21: 2024/01207. 22: 2024/02/07. 43: 2024/08/15 51: H01H; H02J; H04B 71: KIM, Byongho 72: KIM, Byongho 33: KR 31: 10-2021-0104254 32: 2021-08-09 33: KR 31: 10-2021-0131324 32: 2021-10-05 **54: STANDBY POWER CUT-OFF DEVICE** 00: -The present disclosure relates to a standby power

cut-off device provided on a power line connected from a commercial alternating current (AC) power source to an inside of an electrical apparatus, the device including: a manual switch that supplies or cuts off power from the commercial AC power source; a non-contact relay that supplies the commercial AC power to an output side when a current flows to an input side according to the operation of the manual switch; a low-power supply unit that converts and supplies a voltage of the commercial AC power supplied by the non-contact relay; a microprocessor that receives power supplied by the low-power supply unit and controls the operation of the standby power cut-off device; a control signal generator that sends a control signal to the microprocessor when a current flows according to the operation of the manual switch; a capacitor that is charged and then discharged according to the operation of the manual switch; and a resistor that causes a charging voltage of the capacitor to be greater than an operating voltage of the control signal generator, wherein when the manual switch operates, that is, when turning on or off the electrical apparatus, a current flows uninterruptedly in the control signal generator due to a discharge of the capacitor so as to prevent a malfunction due to the multiple operation control of the microprocessor.



AA ... AC power source

21: 2024/01226. 22: 2024/02/07. 43: 2024/08/15 51: H02K

71: PAL-K DYNAMICS INC.

72: KUNJIMON, T. K.

33: IN 31: 202141035653 32: 2021-08-06

54: ENERGY EFFICIENT MOTOR-GENERATOR 00: -

The invention relates to an energy efficient motorgenerator (100) which includes a stator (102), a main winding (M) of the stator (102) for generating a rotating magnetic field (RMF) (108), and a rotor (104) disposed to rotate relative to the main winding (M) of the stator (102) due to the RMF (108). The stator (102) further includes a first additional winding (F) for producing an alternating EMF (110) and a second additional winding (E) for producing an alternating EMF (112) due to the rotation of the rotor (104). The alternating EMF (110) and the alternating EMF (112) are harvested through an electronic control unit (ECU) (116) interfaced to the stator (102) for continuously supplying power for the working of the motor-generator and for supplying power to drive electrical loads respectively.



21: 2024/01235. 22: 2024/02/08. 43: 2024/08/15 51: H01R 71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD. 72: WANG, Chao 33: CN 31: 202110944194.0 32: 2021-08-17 54: INSERTION STRUCTURE OF FLAT BELT AND TERMINAL, AND MOTOR VEHICLE

00: -

The present disclosure provides a plug-in structure of a busbar and a terminal, and a motor vehicle, relating to the technical field of electrical connection elements. The plug-in structure of the busbar and the terminal includes: a busbar and a plug-in terminal, the busbar is provided with a plug-in portion; the plug-in terminal includes at least one terminal lamination; the terminal lamination includes a plug-in end, and a connection end for being connected to a cable, and the plug-in portion is constructed to be in plug-in fit with the plug-in end. According to the present disclosure, the technical problem that the busbar can only be connected to other terminals or electrical devices through copper terminals is solved.



21: 2024/01258. 22: 2024/02/09. 43: 2024/08/15 51: A47G; A61F; A61G; A61M 71: LIANG, Jian 72: LIANG, Jian 33: CN 31: 202111083306.4 32: 2021-09-03 **54: SHAPING AND BEAUTIFYING METHOD** 00: -

Disclosed is a shaping and beautifying method, for modifying the appearance of a human body during sleep.

21: 2024/01261. 22: 2024/02/09. 43: 2024/08/15 51: A61B; F16F 71: ORTHOFIX S.R.L., TEXAS SCOTTISH RITE

HOSPITAL FOR CHILDREN 72: SAMCHUKOV, Mikhail L., STANDEFER, Karen, ROSS, John D., CHERKASHIN, Alexander M.,

VENTURINI, Daniele, OTTOBONI, Andrea,

LUPATINI, Michael

33: US 31: 17/470,116 32: 2021-09-09

33: EP 31: 21195761.8 32: 2021-09-09

54: ORTHOPEDIC SPRING HINGE SYSTEMS AND METHODS

00: -

An orthopedic spring hinge and associated external fixation systems for the treatment of anatomical joint dysfunctions, and more particularly, to a spring hinge comprising a first base member, a second base member, a flexible first spring having a first longitudinal axis extending from the first base member to the second base member, and a flexible second spring spaced apart from the first spring and having a second longitudinal axis extending from the first base member to the second base member. The spring hinge is configured to have a maximum bending resistance in a first plane extending between the first spring and the second spring and a minimum bending resistance in a second plane orthogonal to the first plane.



21: 2024/01273. 22: 2024/02/09. 43: 2024/08/30 51: A45D

71: FENWICK & CO LIMITED

72: FENWICK, Aarron, BACKLER, Matthew, REES-JONES, Blythe, FULLERTON, Mark 33: NZ 31: 779414 32: 2021-08-25

54: DEVICE, COMPONENTS, AND KITS FOR APPLYING HAIR COMPOSITIONS AND THE MANUFACTURE AND USE THEREOF 00: -

The present disclosure encompasses a device, method, and kit for applying hair compositions, including colouring, highlighting, and lowlighting compositions. The disclosure further encompasses methods of manufacturing this device and kit, and methods of using the same.



21: 2024/01283. 22: 2024/02/09. 43: 2024/08/15 51: C08G; C09D

71: STAHL INTERNATIONAL B.V.

72: DERKSEN, Andries Johannes, VISSERS, Suzanne

#### 33: NL 31: 2028984 32: 2021-08-18 54: PROCESS FOR THE PREPARATION OF POLYCARBODIIMIDES WITH AZIRIDINE FUNCTIONS, WHICH MAY BE USED AS CROSSLINKING AGENT 00: -

A process for the preparation of polycarbodiimides which also contain aziridine functions and which are not genotoxic. These aziridine- functional polycarbodiimides may be used as crosslinking agent.

21: 2024/01294. 22: 2024/02/12. 43: 2024/08/15 51: G06Q

71: Dr. Ginni Rani, Dr. Abhimanyu Kumar Jha,
Madhav Kumar, Dr. Mohini Vats, Ms. Ragini Pandey,
Dr. Chandra Mohan, Ms. Jenifer Robinson
72: Dr. Ginni Rani, Dr. Abhimanyu Kumar Jha,
Madhav Kumar, Dr. Mohini Vats, Ms. Ragini Pandey,
Dr. Chandra Mohan, Ms. Jenifer Robinson
54: AN ARTIFICIAL INTELLIGENCE (AI) BASED
WASTE MANAGEMENT SYSTEM

## 00: -

The described system (100) for managing garbage waste comprises containers (102) dedicated to garbage storage. These containers (102) are equipped with odour sensors (104) to gauge odour intensity and level sensors (106) to measure the quantity of garbage within them. Additionally, processing units (108) are set up to gather data from the odour sensors (104) and level sensors (106), transmitting this information to a server (108). The server (108) is programmed to compare the measured odour intensity and garbage quantity against predefined threshold levels. Upon identifying containers (102) surpassing these thresholds, the server (108) transmits the geographical location of such containers (102) to communication devices (112). These communication devices (112) then signal the necessity for garbage collection from the identified containers (102).



21: 2024/01327. 22: 2024/02/13. 43: 2024/08/15 51: F04D

- 71: MINETEK INVESTMENTS PTY LTD
- 72: VAN DER WALT, Johannes Petrus
- 33: AU 31: 2021221548 32: 2021-08-24

## 54: IMPELLER FOR A DUCT

An impeller (20, 120) for a ducted fan arrangement (10, 110), the impeller (20, 120) including a hub (24, 124) and a plurality of blades (26, 126) extending radially from the hub (24, 124), each of the plurality of blades (26, 126) including a root (28, 128) proximate the hub (24, 124) and a tip (30, 130). A camber of each of the plurality of blades (26, 126) is arranged to flatten or reduce between the root (28, 128) and the tip (30, 130). A fan arrangement (10,

110) including such an impeller (20, 120) is also disclosed.



21: 2024/01354. 22: 2024/02/14. 43: 2024/08/19 51: F03C; F03D; H02J; F24S 71: REDGARD, Armand 72: REDGARD, Armand 33: ZA 31: 2022/12531 32: 2022-11-17 **54: RENEWABLE ENERGY SYSTEM** 00: -

The invention relates to a renewable energy system 10 suited for incorporation in a building. The system comprises a solar energy collector subsystem 12, a wind energy collector subsystem 14 and a rainwater energy collector subsystem 16. The wind energy subsystem comprises, in combination, a turbine rotor subassembly made up of a primary and secondary turbine, and a generator subassembly. The wind energy collector subsystem is configured to permit the installation of multiple systems on the roof or walls of the building. The rainwater energy collector subsystem comprises, in combination, a rainwater accumulation subsystem and a water turbine and generator subassembly. The rainwater accumulation subsystem is designed to fit into the downpipes of the rainwater gutters of the building and is sufficiently compact to permit the installation of multiple such systems.



21: 2024/01411. 22: 2024/02/15. 43: 2024/08/19 51: G06Q

71: SMILE AUTOMATION PVT. LTD. 72: KULKARNI, Sanjeev, POULOSE, Liju 33: IN 31: 202121032157 32: 2021-07-16 54: DATA ANALYTICS IN SUPPLY CHAIN 00: -

A system for performing real time data analytics in a supply chain environment is disclosed. The system receives data file from a user. The system then identifies a plurality of data definitions present in the data file upon analysing the software system installed on the user's machine. Further, the system compares the plurality of data definitions with a master definitions based on the metadata corresponding to the software system and a trained data definition model. Subsequently, the system transforms the plurality of data definitions into the master definitions using a set of data transformation techniques. A transformed data file based on the transformation of the plurality of data definitions is created. Finally, the system links the transformed data file with the master data in real time to remotely access the transformed data file in real time for performing data analytics in a supply chain environment.



21: 2024/01412. 22: 2024/02/15. 43: 2024/08/19 51: E02F

71: METALOGENIA RESEARCH & TECHNOLOGIES, S.L.

72: GIMENO TORDERA, Albert, VALLVÉ BERTRAN, Nil, FERRÁNDIZ BORRAS, Vicent 33: EP 31: 21382720.7 32: 2021-07-30 54: WEAR ELEMENT ASSEMBLIES FOR EARTH MOVING MACHINES WITH WIRED CONNECTION AND PROTECTIVE DEVICE THEREFOR 00: -

An assembly for an earth moving machine, comprising: a first member and a second member coupled with the first member, the first member being a wear element for digging implements, the second member being digging implements or a second wear element for digging implements, the first member comprising: a first cavity adapted to receive at least one sensor, and a channel adapted to receive at least one electric wire; and at least one electric wire, one or more electric wires thereof being introduced in both the channel and the first cavity, and being attached to the second member. Also, an earth moving machine comprising the assembly, and a method for wiring.



21: 2024/01421. 22: 2024/02/16. 43: 2024/08/19 51: A01C; A01G 71: MAIR, Ashley Dean 72: MAIR, Ashley Dean 33: ZA 31: 2021/02556 32: 2021-04-19 54: GERMINATION DEVICE 00: -

There is disclosed a germination device (10, 1000) and associated method (100). The germination device (10) includes a heat transfer body (12) having one or more receptacles (14) for operatively receiving seeds (16) or spores therein. A temperature controlling element (18) is provided and connected to the heat transfer body (12). The temperature controlling element (18) may be configured to heat or cool the receptacles (14) to a selected temperature, so as to facilitate germination of the seeds or spores in the receptacles in use.



21: 2024/01446. 22: 2024/02/19. 43: 2024/08/19 51: G06F

71: Ju Tai, Zhang Xuan, Chen Jiayuan, Sun Wei 72: Ju Tai, Zhang Xuan, Chen Jiayuan, Sun Wei 54: A CUSTOMISABLE IDENTITY BASED LLM MODEL FOR A MUSEUM QUIZZING ROBOT DEVICE 00: -

The present invention provides a customisable identity quizzing robot device based on LLM models for enhancing an interactive experience in a museum display environment. The device comprises a request module for receiving a request from a user and parsing from it model identity parameters for simulating a museum display interaction, such as an artificial-mechanical, electromechanical-integrated, or digital-intelligent interaction; an LLM selector for selecting agent information from a database that conforms to the parameters passed by the request module; and a Prompt generation module for generating a Prompt instruction combined with a question from the user as selected by the LLM selector to generate a Prompt instruction that combines the agent information selected by the LLM selector with the user's question, and then this instruction is accepted by the Q&A module and fed into the LLM model, which generates the corresponding answer. The present invention is able to enhance the interactive experience of museum visitors by simulating different display interaction methods and providing diversified answers according to user needs. In addition, this device does not require complex training or tuning, saving time and computational resources.



21: 2024/01447. 22: 2024/02/19. 43: 2024/08/19 51: G06F

71: Chen Jiayuan, Zhang Xuan, Zhang Yizhi, Sun Wei, Ju Tai

72: Chen Jiayuan, Zhang Xuan, Zhang Yizhi, Sun Wei, Ju Tai

## 54: AN AIGC-BASED MULTI-SCENE CONTENT CREATION AND APPLICATION SYSTEM FOR MUSEUMS

00: -

The present invention provides a museum multiscene content creation and application system based on AIGC, including a server, an AIGC module, a user behaviour acquisition module, a user selection module, the user behaviour acquisition module acquires at least two interest keywords provided by the user, the AIGC module compares the at least two interest keywords with a set feature vector according to the at least two interest keywords to obtain the weights of the at least two interest keywords in the the weights of the at least two keywords of interest in each element of the feature vector, constructing a weight discrimination vector from the weights associated with the at least two keywords of interest, and matching the weight discrimination vector with the museum feature vector to generate recommended content compatible with the keywords of interest, and the user selection module displaying the generated recommended content to the user; the present invention enhances

the entire system and the content recommendation through the mutual cooperation of the AIGC module and the user selection module. The present invention improves the degree of intelligence of the whole system and the reliability and accuracy of the content recommendation through the mutual cooperation of the AIGC module and the user selection module, so as to further achieve the goal of the museum's niche service, help the museum achieve various service measures in a targeted manner, put forward personalised service countermeasures, accelerate the enhancement of the museum's digitisation and intelligence level, and push forward the in-depth fusion of the museum in various fields.



21: 2024/01448. 22: 2024/02/19. 43: 2024/08/19 51: G06F

71: Sun Wei, Zhang Xuan, Li Yiran, Ju Tai, Chen Jiayuan

72: Sun Wei, Zhang Xuan, Li Yiran, Ju Tai, Chen Jiayuan

## 54: AN IMAGE RECOGNITION SYSTEM AND DEVICE FOR CULTURAL CENTER BASED ON AIGC

00: -

The present invention discloses an AIGC-based cultural center image recognition system and apparatus, realizing intelligent recognition and display of exhibits, and the image recognition device is provided in the system. The image recognition system includes an image acquisition module, an image set management module, an output module and a control module, and the control module is electrically connected to the image acquisition module, the image set management module and an output module. In the present invention, the control module controls the image set management module to perform the image splicing operation on the original target image and the update factor image to update the target image, which can timely update the image data for image recognition model training, improve the robustness of the image recognition model, thus guarantee the accuracy of the image recognition results when the image recognition system (or device) changes and provide the audience with a more convenient and personalized visiting experience.



## 21: 2024/01449. 22: 2024/02/19. 43: 2024/08/19 51: C12N

71: Zhang Yizhi, Li Yiran, Zhang Xuan, Ju Tai, Sun Wei, Chen Jiayuan

72: Zhang Yizhi, Li Yiran, Zhang Xuan, Ju Tai, Sun Wei, Chen Jiayuan

#### 54: A METHOD, DEVICE FOR MODELING BONE REPAIR BASED ON GPT TECHNOLOGY 00: -

This paper openly utilizes GPT technology designed for virtual exhibitions and digital preservation of historical artifacts in museums. The technology aids in the process of model bone restoration through natural language processing and model generation. The GPT technology is able to understand and process human language to help identify and resolve problems in multiple LOD models where there are inconsistencies in the model bones, thereby improving the accuracy and efficiency of the restoration. By combining with computer vision and artificial intelligence technologies, the present disclosure enables rapid repair of virtual objects. providing more efficient and convenient tools and methods for museums. This comprises a method, apparatus, medium and device for model bone repair, and relates to the field of computer technology. Said method comprises: determining a target virtual object of a target; determining a plurality of LOD models corresponding to the target virtual object, wherein the plurality of LOD models

are each bound with a model skeleton and each corresponds to a different modeling accuracy for characterizing the target virtual object in different environments; and in response to the existence of a LOD model in the plurality of LOD models in which the bound model skeleton does not correspond to the specified skinned skeleton based on the In response to a LOD model in the plurality of LOD models in which the bound model bones are inconsistent with the specified skin bones, determine a model to be repaired and a repair reference model from the plurality of LOD models; and based on the bound model bones of the repair reference model, repair the model bones of the model to be repaired in order to achieve consistency of the bound model bones of the plurality of LOD models.



21: 2024/01453. 22: 2024/02/19. 43: 2024/08/19 51: G01C

71: Henan University of Urban Construction 72: YANG, Feng, GAO, Songfeng, CHEN, Lianjun, MA, Zhanlin, WANG, Jing

## 54: PORTABLE GEOGRAPHIC INFORMATION SURVEYING INSTRUMENT

00: -

Disclosed is a portable geographic information surveying instrument, relating to the technical field of surveying instrument, including a mounting base, a fixing cylinder, a rotary rod, a mounting plate, a worm, a receiving plate, and a surveying instrument body. Support rods are provided at the bottom of the mounting base. A fixing cylinder is provided above the mounting base. A positioning rod is provided at the bottom of the fixing cylinder and connected to the mounting base by a connecting slot. The rotary rod is in a bearing connection to an inner wall of the mounting base. A connecting rope and a connecting plate are further provided. The mounting plate is connected to the top of the connecting plate. The worm is in a bearing connection to the inside of the fixing cylinder. A worm wheel, a rotary shaft, and a connecting gear are further provided.



#### 21: 2024/01454. 22: 2024/02/19. 43: 2024/08/19 51: G01N

71: Central South University, Dongnan Coastal Railway Fujian Co., Ltd., Guangzhou City Polytechnic, Guangzhou Metro Design & Research Institute Co.,Ltd., CHINA RAILWAY 12TH BUREAU GROUP CO.,LTD.

72: YE Mengxuan, LI Peicheng, ZENG Zhiping, GUO Wuji, WU Da, HAN Marui, LI Zhuang, WU Shuang, CHEN Guoshun, ZHANG Zhipeng, HUANG Zhibin, LI Ping, YIN Huatuo, WANG Xiongbiao, LIU Junhua, CAI Fuhai, DUAN Tingfa 54: DEVICE AND METHOD FOR MAINTAINING RAIL SURFACE

00: -

The invention provides a device and a method for maintaining rail surface, comprising a car body, a cleaning mechanism, a drying mechanism and an oiling mechanism; the cleaning mechanism is installed on the car body and used for cleaning the rust on the rail surface; the drying mechanism is installed on the car body and used for drying the water on the surface of the rail; the oiling mechanism is installed on the car body and used for spraying antirust oil on the surface of the rail. The invention can realize the continuous cleaning, drying, dust removal and oil injection treatment of the steel rail, so as to ensure the use requirements of the steel rail.



21: 2024/01455. 22: 2024/02/19. 43: 2024/08/19 51: E21D

71: Ordos Haohua Hongqingliang Mining Co., Ltd, Anhui University of Science and Technology 72: FANG Ping, LIU Zhigang, GAO Yang, WANG Bo, ZHU Yifeng, ZHAO Ming

## 54: INTELLIGENT ANCHOR TROLLEY IN ROADWAY EXCAVATION

00: -

The invention belongs to the technical field of anchor trolley, in particular to an intelligent anchor trolley in roadway excavation, which comprises a mounting plate, wherein the bottom surface of the mounting plate is provided with a plurality of obstacle-crossing mechanisms, and the top surface of the mounting plate is provided with a rotating assembly and a drilling anchor assembly, and the rotating assembly is connected with a rock drilling assembly in a transmission way, and a monitoring assembly is arranged on the mounting plate; the obstaclecrossing mechanism comprises two connecting frames fixedly connected to the bottom surface of the mounting plate, the connecting frames are vertically arranged, a crawler assembly is hinged between the two connecting frames, an angle adjusting assembly is arranged at the bottom end of the mounting plate, and the angle adjusting assembly is in transmission connection with the crawler assembly. When encountering obstacles, the invention drives the crawler assembly to adjust the posture through the angle adjustment assembly, so as to cross the obstacles; when the monitoring assembly detects and explores the abnormal environment, the controller controls the crawler assembly to realize steering, so as to avoid the abnormal environment and avoid safety accidents. The invention can adapt to the complex roadway

environment and improve the working efficiency of the anchor trolley.



- 21: 2024/01456. 22: 2024/02/19. 43: 2024/08/19 51: G01N
- 71: Hunan City University
- 72: LI Hai, LI Chunhua

#### 54: EXPERIMENTAL DEVICE UNDER COUPLING ACTION OF CORROSION AND LOAD 00: -

The invention discloses an experimental device under the coupling action of corrosion and load, which belongs to the technical field of concrete structure experimental devices and is used for study the durability of a concrete sample. Two ends of the concrete sample are respectively fixedly connected with bosses, including a box body. Two opposite inner walls of the box body are respectively fixedly connected with a top plate. The inner wall of the box body is fixedly connected with two fixed plates, two movable plates are arranged above the two fixed plates. A tensile assembly in transmission connection with the two movable plates is arranged on the top plate. The pressure loading mechanism comprises a plurality of first pressing plates fixedly connected with the inner wall of the box body, a plurality of second pressing plates are arranged above the first pressing plates. A concrete sample is positioned between the first pressing plates and the second pressing plates, the first pressing plates are detachably connected with a connecting assembly, and the second pressing plates are connected with the connecting assembly. The corrosion mechanism is used for corroding the steel bars in the concrete sample. The invention integrates the coupling of

pressure load and corrosion environment and the coupling of tension load and corrosion environment, and improves the integration and convenience of the device.



21: 2024/01457. 22: 2024/02/19. 43: 2024/08/19 51: C02F

71: China Northeast Municipal Engineering Design and Research Institute Co., Ltd.

72: YAN, Yu, DONG, Yanhong, LIU, Xueyong, ZHANG, Yong, SUN, Yang, YU, Shuang 54: EFFICIENT WASTEWATER PURIFICATION TREATMENT SYSTEM

00: -

Disclosed in the present invention is an efficient sewage purification treatment system. The system includes a sewage treatment tank, a fiber filtering device and a control system. A first anaerobic module is divided into an anaerobic zone and an anaerobic sedimentation zone, a first anoxic module is divided into a denitrification anoxic zone and an anoxic sedimentation zone, and a first oxic module is divided into an oxic zone and an oxic sedimentation zone. The oxic sedimentation zone is connected to a second anoxic module, a second anaerobic zone is connected to a second anoxic zone, and the second anoxic zone is connected to a second oxic zone. The first oxic zone is provided with nitrification liquid reflux and is connected to the first denitrification anoxic zone. A second oxic module is provided with nitrification liquid reflux and is connected to the first anoxic zone.



21: 2024/01458. 22: 2024/02/19. 43: 2024/08/19 51: A63B

71: Jilin Sport University

72: ZOU Xiaoli

#### 54: RECOVERY ADAPTIVE TRAINING DEVICE FOR ATHLETES IN SPORTS MEDICINE 00: -

The invention discloses a recovery adaptive training device for athletes in sports medicine, which relates to the technical field of rehabilitation equipment, comprising: rehabilitation equipment, placed on the supporting plane; the supporting plane is slidably arranged on the supporting plate through a sliding assembly; the bottom end of that supporting plate is fixedly installed on the bottom plate; a first adjusting assembly and a second adjusting assembly are fixedly installed on the bottom plate; the roller of the first adjusting assembly is in sliding contact with the inclined block fixedly installed on the bottom surface of the supporting plane; the side of the bottom plate far from the supporting plate is also provided with an adjusting base; the adjusting base is provided with a second adjusting assembly; the supporting plate is provided with an accommodating groove, a sliding column is vertically installed in the accommodating groove, a slider is slidably arranged on the sliding column, and the center of one side of the supporting plane is fixedly connected with the slider. In order to adapt to the use of the recovery training device by people with different heights, the first adjusting assembly is used for preliminary height adjustment, and the second adjusting assembly can be started by the first adjusting assembly to realize further height adjustment; the device has reasonable design and strong practicability.



21: 2024/01460. 22: 2024/02/19. 43: 2024/08/20 51: A01G

71: SICHUAN ACADEMY OF FORESTRY 72: Pijun LI, Bin BAI, Zeliang WANG, Chongwen ZHENG, Ningzi WU

# 54: REPAIRING STRUCTURE FOR PATCHING HOLLOW IN OLD TREE

#### 00: -

The present disclosure belongs to the technical field of tree maintenance, and in particular to a repairing structure for patching a hollow in an old tree, including a flexible jacket and plate clips, where the flexible jacket includes a base cloth layer, a waterproof layer, an insect expelling layer, an elastic layer and a protective layer, a top of the base cloth layer is provided with the elastic layer, a top of the elastic layer is provided with the protective layer, a bottom of the base cloth layer is provided with the waterproof layer, and a bottom of the waterproof layer is provided with the insect expelling layer; the plate clips are arranged on both sides of the flexible jacket, one side of each of the plate clips is provided with a clip groove, one end of a flexible sliding sleeve extends until located between the clip grooves, a top of the flexible jacket is provided with locking screws, and the plate clip on one side is provided with fixing rings while the plate clip on the other side is provided with matched fixing hooks; and the repairing structure has a reasonable structure, a convenient regulation, a wide range of application and a high flexibility during use, and meanwhile the repairing structure has a high structural strength, which helps to prolong the service life.



#### 21: 2024/01461. 22: 2024/02/19. 43: 2024/08/20 51: A01G

71: SICHUAN ACADEMY OF FORESTRY 72: Pijun LI, Bin BAI, Zeliang WANG, Ningzi WU, Chongwen ZHENG

## 54: LONGITUDINAL DEEP-INSERTING FERTILIZATION APPARATUS FOR OLD TREE 00: -

The present disclosure belongs to the technical field of tree planting, and in particular to a longitudinal deep-inserting fertilization apparatus for an old tree, including a base and brackets, where four corners of a bottom of the base are provided with universal wheels, a through hole is formed in a middle of a top of the base, four corners of the top of the base are provided with columns of which tops are provided with a workbench, a cylinder is arranged at a top of the workbench, and a bottom output end of the cylinder penetrates through the workbench and is provided with a drill rod; and the brackets are arranged on both sides of the top of the workbench, fertilizer storage tanks are arranged at tops of the brackets, material supplementing ports are arranged at tops of the fertilizer storage tanks, bottoms of the fertilizer storage tanks penetrate through the workbench and are provided with discharging tubes, and electromagnetic valves are arranged on the discharging tubes. With a reasonable structure, the longitudinal deep-inserting fertilization apparatus can dig a pit automatically, reduce the labor intensity, apply a plurality of fertilizers at one time and improve the fertilization efficiency during use.



- 21: 2024/01462. 22: 2024/02/19. 43: 2024/08/19 51: G01F
- 71: DUNAKONTROLL Kft.
- 72: Gábor Dévai

#### 33: HU 31: U2300038 32: 2023-02-23 54: STRUCTURAL ARRANGEMENT FOR A SYSTEM CAPABLE OF MEASURING VOLUME, MASS, AND MOISTURE CONTENT 00: -

The subject of the patent is the structural arrangement for a measuring system including volumetric measurement, particularly for measuring the moisture content of fibrous materials, primarily paper waste, seeds, straw, cotton, logs, and wood chips in industrial environments, while transported in trucks, railway wagons, conveyor belts, pulleys, pipes, and other such conveyances. The structural arrangement as described by the model allows for a more accurate measurement of the moisture content of various fibrous materials than with previously existing devices. For performing the measurements, we combine one or more radio frequency antennas (2), imaging sensors (5), and a mass measuring device (7) into a single unit. We measure the signal generated by sending a radio frequency signal (3) through the material to be measured (1), which is located next to the antenna (2). The process involves the use of at least one antenna (2), an imaging unit (6), and a mass measuring unit (7), whose signals are then all forwarded to a signal processing unit (8).



21: 2024/01464. 22: 2024/02/19. 43: 2024/08/20 51: C12N

## 71: NORTHWEST A&F UNIVERSITY, ANKANG SELENIUM-RICH PRODUCT RESERCH AND DEVELOPMENT CENTER

72: WANG, Weidong, GONG, Siyu, QI, Yuying, WANG, Qi, YU, Youben, TANG, Dejian 33: CN 31: 202410114857X 32: 2024-01-26 54: RAOULTELLA ORNITHINOLYTICA, BACTERIAL AGENT AND APPLICATION OF RAOULTELLA ORNITHINOLYTICA AND BACTERIAL AGENT IN ENRICHING SELENIUM AND PROMOTING GROWTH 00: -

The present invention discloses a Raoultella ornithinolytica, a bacterial agent and application of the Raoultella ornithinolytica and the bacterial agent in enriching selenium and promoting growth, which belongs to the technical field of microorganisms. An accession number of the Raoultella ornithinolytica disclosed in the present invention is CGMCC No.29228. In the present invention, a Raoultella ornithinolytica S-1 that can tolerate high concentration of sodium selenite is isolated and screened from soils of a selenium-rich tea garden, and has good growth promoting abilities such as phosphorus solubilization, siderophore synthesis, nitrogen fixation and IAA production. The preparation of a selenium-rich growth promoting bacterial agent by fermentation with the bacteria can increase an effective selenium level of the soils of the selenium-rich tea garden, promote growth of tea trees, increase a selenium content of a tea leaf, and

promote development of the selenium-rich tea industry.



## 21: 2024/01465. 22: 2024/02/19. 43: 2024/08/20 51: A01K

71: INSTITUTE OF HIGHLAND FOREST SCIENCE, CHINESE ACADEMY OF FORESTRY 72: XIE, Zhenghua, WANG, Jianmin, WANG, Youqiong, ZHAO, Min, WANG, Chengye, ZHANG, Junjiao, FENG, Xuanxuan 54: METHOD FOR ARTIFICIALLY REARING V. VELUTINA IN AGRICULTURAL LANDSCAPES AND APPLICATION THEREOF

00: -

A method for artificially rearing V. velutina in agricultural landscapes and application thereof. In the method, an open site in an agricultural landscape with a green land coverage less than or equal to 49% is selected as a site for outdoor hanging of the V. velutina. In the outdoor-hanging stage, the colonies are artificially fed with honey bees, grasshoppers, honeys, bovine lungs, bovine pancreas, sugar water and/or other substances in the management stages, to ensure sufficient intakes of proteins, fats and other food resources. The invention aims to reduce the economic cost of rearing V. velutina and improve their normal developments. A survival rate of V. velutina colonies reaches up to 70.93%, and a yield of a nest comb reaches up to 400 kg. The invention provides a new technology and method for successful rearing V. velutina in agricultural landscapes.

21: 2024/01468. 22: 2024/02/19. 43: 2024/08/20 51: A61K; A61Q

#### 71: LANDA LABS (2012) LTD.

72: ABRAMOVICH, Sagi, ASHER, Tamar, KOJOKARO, Nir, KARTON, Yishai, BLUVSTEIN, Alexander

#### 33: GB 31: 2111904.5 32: 2021-08-19 54: IMPROVED COMPOSITIONS AND METHODS FOR STYLING HAIR FIBERS 00: -

The present disclosure relates to a method for styling mammalian hair fibers. The method comprises applying to the hair a hair styling composition comprising a phenol-based monomer and a water-soluble hygroscopic agent, allowing the monomers and water-soluble hygroscopic agents to penetrate within the hair and curing the monomers to internally form a polymer able to overcome the tendency of the hair to revert to its native shape. When curing is performed while the hair is in a desired modified shape, the resulting polymers may maintain the modified shape, whilst the hygroscopic agents may prolong the hair styling effect. Compositions adapted for such hair styling and kits allowing to prepare the same are also disclosed.



21: 2024/01469. 22: 2024/02/19. 43: 2024/08/20 51: C01G; H01M 71: ANHUI TIANLI LITHIUM ENERGY CO., LTD 72: LI, Hui, XUE, Zhilin, WANG, Bing, KANG, Jinming, LI, Ke

33: CN 31: 202311075604.8 32: 2023-08-24

#### 54: HIGH-NICKEL TERNARY CATHODE MATERIAL SYNTHESIZED USING LITHIUM CARBONATE AS MAIN LITHIUM SOURCE AND PREPARATION METHOD THEREOF 00: -

The present invention discloses a high-nickel ternary cathode material synthesized using lithium carbonate as a main lithium source and a preparation method thereof, and belongs to the technical field of high-nickel ternary cathode materials. The preparation method includes: using lithium carbonate and lithium hydroxide as a lithium source, and mixing a high-nickel ternary cathode material precursor, the lithium carbonate and a metal oxide additive, wherein a molar ratio of a lithium element in the lithium carbonate to nickel, cobalt and manganese elements in the high-nickel ternary cathode material precursor is 0.70-0.90, an added amount of the metal oxide additive accounts for 0.1-0.5 wt% of the mass of the high-nickel ternary cathode material precursor, and the high-nickel ternary cathode material is prepared using hightemperature gradient sintering technology and crystal growth control technology through three times of sintering. Beneficial effect: when used as the lithium source, the dosage of the lithium carbonate per unit is reduced by about 10%, so the high-nickel ternary cathode material has a distinct cost advantage compared with existing products in the industry; and primary particles grow radially from a center point, and the high-nickel ternary cathode material has an obvious advantage in cycle performance and rate performance compared with the existing products and is high in gram capacity.



21: 2024/01472. 22: 2024/02/19. 43: 2024/08/20 51: E01B 71: CHINA RAILWAY BAOJI BRIDGE GROUP CO., LTD 72: SHI, Qingfeng, YAN, Yuqing, SUN, Libin, LI, Wenbo, LI, Chunqiang, LEI, Jie 33: CN 31: 202111085384.8 32: 2021-09-16 54: MOVABLE POINT FROG

## 00: -

Embodiments of the present disclosure relate to a movable point frog. The movable point frog includes: a wing rail group, a mosaic block group, a long point rail, a short point rail, and a forked rail; the wing rail group includes a first wing rail and a second wing rail which are spaced apart from each other: a toe end of the first wing rail is connected to a first guide rail of a guide rail group; a toe end of the second wing rail is connected to a second guide rail of the guide rail group; the mosaic block group includes a first mosaic block fixedly connected to an inner side of the first wing rail and a second mosaic block fixedly connected to an inner side of the second wing rail; the first mosaic block and the second mosaic block are arranged on opposite inner side surfaces of the first wing rail and the second wing rail between a bent point of the wing rail group and a preset position; the long point rail is located between the first wing rail and the second wing rail, and an end portion of the long point rail is arranged at a throat of the second wing rail; the short point rail is arranged between the first wing rail and the second wing rail and is fixedly connected to a side wall of the long point rail close to the second wing rail; and the forked rail is arranged between the first wing rail and the second wing rail and is fixedly connected to a side wall of the short point rail close to the second wing rail.



21: 2024/01488. 22: 2024/02/20. 43: 2024/08/20 51: A44C

71: Shanghai East Hospital (East Hospital Affiliated to Tongji University)

72: SONG, Jun, ZHOU, Chenxia, LUAN, Yigang, CHEN, Da, LI, Wenjie, ZHANG, Limin, LI, Ziyi 33: CN 31: 2024100390631 32: 2024-01-10 54: BRACELET FOR TESTING AMBULATORY GLUCOSE MARKER IN REALTIME 00: -

Disclosed in the present invention is a bracelet for testing an ambulatory glucose marker in real time. The bracelet includes: a dial, watchbands, a display module, a control module, a body fluid acquisition module and a testing module, where the display

module and the testing module are both electrically connected to the control module, and the body fluid acquisition module is arranged at the side, close to human skin, of the dial. The body fluid acquisition module includes a body fluid collection channel and test paper, a testing end of the test paper is connected to the testing module, and a body fluid absorption portion of the test paper is arranged corresponding to the body fluid collection channel. According to the present invention, the dial is directly worn on an arm by means of the watchbands.



21: 2024/01489. 22: 2024/02/20. 43: 2024/08/20 51: A01G; C05G

71: SHANDONG AGRICULTURAL UNIVERSITY 72: ZHANG, Hongjian, CHEN, Xiubo, Li, Hongli, WANG, Jinxing, SUN, Linlin, LIU, shuangxi, FU, Shenghui, ZHANG, Wen

## 33: CN 31: 202311519347.2 32: 2023-11-15 54: METHOD AND SYSTEM FOR PREDICTING STRENGTH OF CONTROLLED RELEASE FERTILIZER BASED ON PHENOTYPIC CHARACTERISTICS

00: -

The present invention discloses a method and a system for predicting strength of a controlled release fertilizer based on phenotypic characteristics, and relates to the technical field of fertilizer strength prediction. The method comprises: obtaining phenotypic characteristics and strength data of the controlled release fertilizer, and constructing a sample set; performing dimensionality reduction by a principal component analysis method; constructing a controlled release fertilizer strength prediction model according to the dimensionality reduced data; optimizing parameters of the controlled release fertilizer strength prediction model by a particle swarm algorithm and a k-fold function; and obtaining the phenotypic characteristics of the controlled release fertilizer, and inputting the phenotypic characteristics into the optimized controlled release fertilizer strength prediction model to obtain a controlled release fertilizer strength prediction result. According to the method, through the SVM prediction model optimized by the particle swarm algorithm, an optimal parameter of the model is searched by adopting K-fold cross validation, so that the accuracy of model parameter selection during prediction of different controlled release fertilizers is ensured, and the prediction accuracy is improved. The prediction model has good performance and high precision, is simple and efficient, and has objectivity and universality, which provides a theoretical basis for a method for nondestructive testing of the strength of the controlled release fertilizer.



- 21: 2024/01492. 22: 2024/02/20. 43: 2024/08/20
- 51: C02F
- 71: Northeast Petroleum University
- 72: Shi Fang, Wu Jingchun, Zhao Bo, Xiu Hongwen,
- Shi Rong, Zhao Zhenduo
- 33: CN 31: 202311223311.X 32: 2023-09-21 54: DEVICE FOR TREATING PETROLEUM WASTEWATER USING CARBON NANOTUBE ADSORPTION

## 00: -

The present invention relates to the technical field of water treatment equipment, and in particular to a device for treating petroleum wastewater using carbon nanotube adsorption, including an adsorption tank, symmetrical stabilizing frames are slidably arranged on an inner wall of the adsorption tank, and an adsorption body is jointly arranged on the stabilizing frames; the adsorption body is composed of several loaded substrate carbon nanotube layers and several water-absorbing and oleophobic sponge layers, which are alternately arranged, and the water-absorbing and oleophobic sponge layers are clamped between the loaded substrate carbon nanotube layers; an extrusion mechanism is arranged on the stabilizing frames, and the extrusion mechanism is used for driving the loaded substrate carbon nanotube layers to apply a force to the waterabsorbing and oleophobic sponge layers; and a lifting mechanism is connected on the loaded substrate carbon nanotube layers located on a top layer, and the lifting mechanism is used for driving the stabilizing frames and the adsorption body to slide up and down. According to the present invention, an efficient adsorption of organic substances in petroleum wastewater by the loaded substrate carbon nanotube layers is achieved by using the water-absorbing and oleophobic sponge layers, and an efficient utilization of the waterabsorbing and oleophobic sponge layers is achieved by using the extrusion mechanism, thereby improving the separation efficiency of carbon nanotubes for oil and water.



21: 2024/01493. 22: 2024/02/20. 43: 2024/08/20 51: G06N 71: Sanskrithi School of Engineering, Dr. Anant Saraswat, Dr. Bhaskar Naik, Manjish Pal, Upasana Chutia, Shubham Pokriyal, Dr. Kumar Abhishek 72: Dr. Kumar Abhishek, Dr. Anant Saraswat, Dr. Bhaskar Naik, Manjish Pal, Upasana Chutia, Shubham Pokriyal

#### 54: A SYSTEM FOR MITIGATING DISPARATE IMPACT IN ALGORITHMIC DECISIONS 00: -

The present disclosure relates to a system for mitigating disparate impact in algorithmic decision. The aim of the present invention is to solve the problem of combinatorial discrepancy in algorithms. The system uses linear programming tools to mitigate disparate impact, while also considering weighted version of the problem. The proposed system is implemented on real world dataset to assess its performance and perform evaluation, wherein the results showed that the proposed system provides solution to the problems such like fairness gerrymandering problem (to a certain extent) and data size blow-up for multiple polyvalent sensitive attributes can be solved without compromising on the accuracy of the final classification results



21: 2024/01494. 22: 2024/02/20. 43: 2024/08/20 51: A61H

71: Changzhou Maternal and Child Health Care Hospital

72: Zhao Min, Zhou Xiao

## 54: DEVICE FOR ADJUVANT TREATMENT OF FLATULENCE IN GASTROINTESTINAL SURGERY

00: -

The present invention discloses a device for adjuvant treatment of flatulence in gastrointestinal surgery, including: a device housing. A circular turn table calking groove is disposed in a middle of an inner side of the device housing; in this utility model, connection restraint straps of different lengths and

specifications are selected, and connection plug-pins at one end thereof are inserted into plug-pin jacks disposed below restraint strap insert sleeves until elastic binding belt bodies are completely inserted into strap body through grooves; at this moment, an inner side of the device is attached to abdomens of patients, the elastic binding belt bodies disposed with a touch fastener are winded and fixed on waists of the patients, and at this moment, a massage drive motor is controlled to start to rotate through rotation control keys at one end of control panel; and rotary massage can be performed on the abdomens of the patients by driving circular massage turn table to rotate through a turn table connection rotary shaft, the circular massage turn table with different specifications of arc-shaped massage baffle bars can be replaced by grasping a circular handle to adapt to different massage requirements, and heating temperature of a plurality of groups of heating strips is controlled through heating control keys at one end of the control panel can perform heating work while massaging.



21: 2024/01495. 22: 2024/02/20. 43: 2024/08/20 51: A61B

71: Dr. Aparajita Priyadarshini, Prof. Kalpana Rayaguru, Dr. Achyuta Kumar Biswal, Dr. Jayabratha Saha, Prof. Pramila Kumari Misra
72: Dr. Aparajita Priyadarshini, Prof. Kalpana Rayaguru, Dr. Achyuta Kumar Biswal, Dr. Jayabratha Saha, Prof. Pramila Kumari Misra
54: A SYSTEM FOR ASSESSING THE IMPACT OF OHMIC-HEATING CHARACTERISTIC

## PARAMETERS ON MANGO PULP'S PROPERTIES

#### 00: -

The present disclosure relates to a system for assessing the impact of ohmic-heating characteristic parameters on mango pulp's properties. The system examines the impact of ohmic heating on mango pulp properties. It includes a sample preparation unit with a pulper and blender for homogenizing varying concentrations of pulp. An apparatus for normal heating and an ohmic heating apparatus perform heating procedures. The ohmic heating setup contains a heating chamber, variac system, digital thermometer, stainless steel electrodes, and an AC power supply. Stainless steel electrodes within a 1000 ml chamber record temperatures at intervals. A manual feeding mechanism introduces samples into the chamber for heating at different gradients. An electrical conductivity meter records conductivity intervals. The property evaluation unit comprises a spectrophotometer and rotational modular rheometer for phytochemical and rheological analyses. This system elucidates how ohmic heating affects mango pulp, evaluating its biochemical and rheological aspects.



#### 21: 2024/01519. 22: 2024/02/21. 43: 2024/08/22 51: A01H

71: Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences 72: ZHANG, Bixian, REN, Honglei, LIU, Xiulin, WANG, Xueyang, ZHANG, Chunlei, ZHANG, Fengyi, ZHAO, Kezhen, YUAN, Rongqiang, WU, Qi 33: CN 31: 2023118149749 32: 2023-12-26 54: SOYBEAN MUTATION BREEDING BOX WITH HEAVY ION BEAM CONCENTRATION STRUCTURE 00: -

Disclosed is a soybean mutation breeding box with a heavy ion beam concentration structure, and the present invention relates to the technical field of soybean mutation breeding devices. An accelerator heavy ion outlet end is slidably provided on an inner side wall of a mutagenesis box, and the accelerator heavy ion outlet end is connected to an external ion source generator. A trigger mechanism is provided on a side wall of the accelerator heavy ion outlet end. A number of concentration grooves are arranged at equal fillets on a positioning ring frame, and the concentration grooves are arranged in cooperation with the accelerator heavy ion outlet end. An angle-changing driving mechanism is connected to the rear side of the positioning ring frame. A seed placement frame is provided inside the positioning ring frame, and a number of placement grooves are arranged in cooperation with the concentration grooves.



21: 2024/01520. 22: 2024/02/21. 43: 2024/08/22 51: A01H

71: Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences
72: ZHANG, Bixian, REN, Honglei, LIU, Xiulin, WANG, Xueyang, ZHANG, Fengyi, ZHAO, Kezhen, ZHANG, Chunlei, YUAN, Rongqiang, WU, Qi
33: CN 31: 2023118149664 32: 2023-12-26
54: HEAVY ION MUTATION BREEDING METHOD FOR GLYCINEMAX
00: -

Disclosed is a heavy ion mutation breeding method for Glycinemax, relating to the technical field of agriculture, including S1: selecting screened superior Glycinemax seeds as a parent variety, and exposing to a heavy ion radiation source to induce a mutation in a genome; S2: collecting the irradiated variant Glycinemax seeds, and performing seed treatment to promote the development of mutants; S3: seeding and cultivating the treated Glycinemax seeds into seedlings; and S4: selecting plants exhibiting target traits from the seedlings, and performing single plant selection. The heavy ion mutation breeding method can introduce a large number of new genetic variations in Glycinemax populations, which may include a single gene mutation, a multi-gene combined mutation, etc., thereby increasing the Glycinemax genetic diversity. This genetic diversity helps to improve the adaptability and survival ability of Glycinemax populations and makes them have stronger growth and survival competitiveness under different environmental conditions.

## 21: 2024/01521. 22: 2024/02/21. 43: 2024/08/22 51: A01C

71: Shanxi Academy of Forestry and Grassland Sciences

72: ZHANG Caihong, YANG Yanqing, GU Sisi, YANG Fei, AN Rong, MOU Yuling, YAO Feng, CUI Yaqin, FENG Lijuan

## 33: CN 31: 2024101222027 32: 2024-01-29 54: FERTILIZING DEVICE FOR WALNUT TOPDRESSING AND FERTILIZATION METHOD THEREOF

00: -

The invention belongs to the technical field of fruit tree planting, and discloses a fertilizing device for walnut topdressing and a fertilization method thereof, including a traveling vehicle, used as the foundation of the fertilizing device; a fertilizer storage tank, which is fixedly installed on the traveling vehicle, is internally provided with a mixing assembly, and the bottom end of the fertilizer storage tank is communicated with a material guide assembly, the material guide assembly is fixedly installed on the traveling vehicle; a fertilizing pipe, which is longitudinally penetrated and fixedly connected to the traveling vehicle, and the outlet of the material guide assembly is communicated with the fertilizing pipe; the top end of the fertilizing pipe is provided with a driving assembly which is in transmission connection with a transmission control assembly arranged in the fertilizing pipe, and the bottom end of the transmission control assembly is in transmission connection with a fertilizing head

rotatably connected at the bottom end of the fertilizing pipe. The invention is simple in structure, convenient to use, can finish fertilizing walnuts at one time, does not need manual trenching and filling, has high fertilizing rate, good fertilizing effect and less manpower demand, can greatly accelerate the topdressing process of walnuts, and improves the planting benefit.



21: 2024/01523. 22: 2024/02/21. 43: 2024/08/22 51: E21C

71: CHUIKO, Vitaly Anatolievich, ELSHIN, Aleksey Vladimirovich

72: CHUIKO, Vitaly Anatolievich, ELSHIN, Aleksey Vladimirovich

33: RU 31: 2023121291 32: 2023-08-15 54: METHOD OF MINING THE SUB-QUARRY PART OF MINERAL OREFIELDS 00: -

The present invention relates to mining industry and can be used as a technology for open-pit mineral mining. The method of mining the sub-quarry part of mineral ore fields including preparatory work associated with crushing rocks, earthworks prior to the installation and adjustment of transport mining equipment, as well as extraction and transportation through the quarry to unloading site of the broken rock mass using the mentioned mining equipment. Its transportation coupling is made in the form of a suspended load-handling machine moving along air channels with the capability of lowering into the lower central part of the quarry and respective lifting back to the upper peripheral area of the quarry.



21: 2024/01524. 22: 2024/02/21. 43: 2024/08/22 51: G01H

71: Chongqing Chemical Industry Vocational College 72: HAN, Yuhua

33: CN 31: 202310341908.8 32: 2023-03-31 54: ENVIRONMENTAL NOISE MONITOR 00: -

The present invention belongs to the field of noise monitoring equipment, in particular to an environmental noise monitor; specific technical solutions are as follows: a plurality of sliding bars are arranged on the support plate and a periphery of the receiver; a box cover is slidably arranged on the plurality of the sliding bars above the support plate; a box body is provided on the support plate with an upward opening and adapted to the box cover in the sliding direction of the box cover; the box body is connected with the box cover through a linkage assembly; the box cover is fixed on the plurality of the sliding bars through locking assemblies; a micropressure sensor is arranged above the box cover; and the micro-pressure sensor is in communication with the locking assemblies to control the locking assembly to work. In rainy days, when the protective box is closed, and the receiver is placed in the protective box to prevent rainwater from entering the receiver and affecting normal work thereof; in sunny weather, when the protective box is opened, the receiver directly collects noises, so as to avoid the situation that the receiver cannot completely and effectively collect noises due to shielding of the protective box, resulting in lower noise monitoring values.



21: 2024/01525. 22: 2024/02/21. 43: 2024/08/22 51: E02F; E21D

71: CHINA RAILWAY THIRD DIVISION GROUP CO., LTD., CHINA RAILWAY THIRD DIVISION GROUP FIFTH ENGINEERING CO., LTD. 72: ZHANG, Xugang, CHENG, Junwen, HUANG, Xiuwen, XIE, Xiaofeng, WANG, Ping, YU, Zhongyue, CHEN, Peili, SUN, Longhua, SUN, Kanghua, FU, Chongyang, WANG, Zijun, LIU, Pengjun, WU, Yunlong, ZHANG, Zefeng

#### 54: SECTIONAL TUNNEL BLASTHOLE ARRANGEMENT STRUCTURE AND CONSTRUCTION METHOD THEREOF 00: -

The present invention discloses a sectional tunnel blasthole arrangement structure and a construction method thereof, and relates to the technical field of engineering. The structure includes: a tunnel face, including an upper section and a lower section, where the upper section is arranged at a position, close to an arch shoulder part, of the tunnel face, and the lower section is arranged below the upper section; upper section cutholes, which are formed on the upper section; lower section cutholes, which are formed on the lower section; and auxiliary cutholes, which are formed on peripheries of the lower section cutholes and located on the tunnel face. According to the sectional tunnel blasthole arrangement structure and the construction method thereof provided by the present invention, a phenomenon of underbreaking the tunnel arch shoulder part can be effectively avoided, so that unit consumption of explosives is reduced, and an effect of smooth blasting for forming of the tunnel is guaranteed.



- 21: 2024/01527. 22: 2024/02/21. 43: 2024/08/22
- 51: E21C; E21F

71: CHUIKO, Vitaly Anatolievich, ELSHIN, Aleksey Vladimirovich

72: CHUIKO, Vitaly Anatolievich, ELSHIN, Aleksey Vladimirovich

## 33: RU 31: 2023121297 32: 2023-08-15 54: A CONTOUR MINING STRUCTURE FOR EXCAVATION AND TRANSPORTATION OF PREPARED ORE MASS FROM QUARRY BOTTOM

00: -

The present invention relates to mining construction industry, specifically, to complex mining loadhandling equipment. A contour mining structure for excavation and transportation of prepared ore mass from quarry bottom contains two interacting mobile units are arranged relative to each other in individually prepared areas on opposite quarry sides. The units are movable in longitudinal direction relative to quarry sides within reach of their

equipment in designated working zone of excavation. Each of the mobile units consists of an operational frame platform equipped with transportation means, forming a support base, structurally providing for accommodation of transport load-handling equipment controlled from operator station. Its working bodies are capable of moving to extraction area be means of separate transportation lines, uniting the mobile units to create uniform aerial suspended couplings for collecting and transporting broken rock mass to its discharge site.



21: 2024/01533. 22: 2024/02/21. 43: 2024/08/22 51: G09B

71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

## 72: JIAO, Chunhong

#### 54: MULTI-MODAL ENGLISH TEACHING DEVICE WITH SUPPORTING STRUCTURE 00: -

The present invention provides a multi-modal English teaching device with a supporting structure, including a base, where supporting stand columns are fixed above the base, and a mounting frame is fixed above the supporting stand columns; the interior of the mounting frame is provided with a teaching display configured to play English teaching materials; a front side of the mounting frame is provided with a word writing board configured to shield the teaching display, and an up-down sliding structure is formed between the word writing board and the supporting stand columns. In the device, the supporting blocks provide mounting space for the walking wheels. The device may be easily moved through the contact between the walking wheels and a supporting surface. The supporting blocks may be moved within the base, and after retracting the supporting blocks upwards, the base may be stably placed on the supporting surface.



21: 2024/01558. 22: 2024/02/22. 43: 2024/08/23 51: A61L

71: Anhui polytechnic university, The First Affiliated Hospital of Wannan Medical College

72: Lei Zhou, Feng Zhang, Changlong Li, Xue Ling, Fei Hu

## 54: A TEXTILE MACHINE FOR MEDICAL TEXTILE PRODUCTION WITH A DISINFECTION MECHANISM

## 00: -

The invention relates to the technical field of a textile machine for medical textile production with a disinfection mechanism, in particular to a textile machine for medical textile production with a disinfection mechanism. It includes: The textile machine, the middle of the textile machine is provided with a disinfection block, the internal end of the disinfection block is provided with a spray plate,

the spray plate is provided with a plurality of groups of spray head, the spray plate is provided with a connecting pipe on both sides of the spray plate, a group of connecting pipes are inserted in the disinfection water tank at the top of the disinfection block; the supporting block, the middle of the supporting block is provided with a telescopic groove, the telescopic groove is provided with a spring, the other end of the spring is connected with the clamping block, the top of the clamping block is connected with a layer of rubber pad; the utility provides a medical textile production textile machine with a disinfection mechanism. After the textile is produced through a cloth outlet on the side of the textile machine, it passes through the first roller and the second roller and then enters into the interior of the disinfection block from the side of the disinfection block, and the guide plate on both sides of the disinfection block guides the textile.



21: 2024/01559. 22: 2024/02/22. 43: 2024/08/23 51: A61K

71: Shenzhen Second People's Hospital (Shenzhen Institute of Translational Medicine)72: Sha YU

#### 54: A MEDICINAL DIET THERAPEUTIC PRODUCT COMPOSITION FOR PREVENTING UTERINE ADHESIONS AND A PREPARATION METHOD THEREOF 00: -

The invention relates to the technical field of medicated diet and treatment, in particular to a medicated diet and treatment product composition for preventing uterine adhesions and a preparation method thereof, which comprises the following components according to mass ratio: low-fat highprotein food is 30-40%, seasonal fruit is 25-30%, food containing estrogen is 10-20%, and the rest is licorice soup; The beneficial effects of the invention are as follows: The composition of medicated diet for preventing uterine adhesion and the preparation method thereof, through the food containing female hormone, it can play a certain auxiliary role in repairing endometrium; through low fat and high protein food, it can promote endometrial development; it can boost your immune system by consuming seasonal fruits, which are also antibacterial and anti-inflammatory; through drinking licorice soup, the human body can promote blood pain, regulate the liver and kidney, warm the uterus, so that it can achieve the effect of reducing swelling and inflammation, clearing heat and detoxification, which can effectively alleviate the symptoms of uterine adhesion.

21: 2024/01560. 22: 2024/02/22. 43: 2024/08/23 51: E04G

71: Henan University of Urban Construction 72: Mengyuan Yang, Wanying Wu, Mingming Cui, Wenjin Ji, Nana Xie

#### 54: A DRAWING TABLET OPERATING FRAME FOR WEB DESIGN LAYOUT 00: -

The invention discloses a web design layout drawing tablet operating frame. A drawing tablet operating frame for web design layout comprises: a rotating base, the rotating base bearing is connected with a rotating shaft, the rotating shaft is fixed connected with a clamping mechanism, the rotating base is fixed connected with a supporting plate, the clamping mechanism comprises: The placing plate (203) is fixed on one side of the placing plate is installed with a baffle plate, the placing plate is sliding is installed with a moving plate, the moving plate is fixed on one side of the spring and a limiting rod, the other side of the spring is fixed with the placing plate, the limiting rod is sliding connected with the placing plate. The invention provides a web design layout drawing tablet operating frame, which realizes the rotation function of the clamping mechanism through a rotating base and a rotating shaft, so as to achieve the purpose of rotating the drawing tablet to adapt to the web page layout design on different devices.



#### 21: 2024/01561. 22: 2024/02/22. 43: 2024/08/23 51: G01L 71: Hunan City University 72: LI Hai

#### 54: METHOD AND SYSTEM FOR MONITORING EFFECTIVE PRESTRESS OF POST-TENSIONED CONCRETE BEAMS 00: -

The invention discloses a method and a system for monitoring effective prestress of post-tensioned concrete beams. The method comprises the following steps: setting a prestressed tendon in the concrete beam, and applying prestress by stretching the prestressed tendon; arranging a sensor group on the prestressed tendon to monitor the strain data of the prestressed tendon; obtain processed strain data through the data processing module; calculate that effective prestress of the concrete beam based on the processed strain data. The invention can accurately monitor the strain change of prestressed tendons in concrete beams, and calculate the effective prestress through the data processing device, thus providing a reliable prestress monitoring means. This is helpful to ensure the structural safety and performance stability of concrete beams and improve the engineering quality and safety.

S1 Prestressed tendons are arranged in the concrete beam, and prestress is exerted by stretching the prestressed tendons. Arranging a sensor group on the prestressed tendons to monitor the strain data of the prestressed tendons. S2 Preprocess that strain data to obtain processed strain data. S3 Preprocess that strain data to obtain processed strain data. S4 Calculating the effective prestress of the concrete beam based on the processed strain data.

- 21: 2024/01562. 22: 2024/02/22. 43: 2024/08/23 51: G01N
- DI. GUIN
- 71: Hunan City University
- 72: PENG Yi

#### 54: CONCRETE MOISTURE-HEAT COUPLING SIMULATION ANALYSIS METHOD 00: -

The invention discloses a concrete moisture-heat coupling simulation analysis method, which comprises the following steps: obtaining the material properties of concrete; based on the relationship between temperature and humidity, the coupling condition of moisture and heat is established; based on the material properties, temperature field and humidity field of concrete, a coupled model of concrete moisture and heat is established under the condition of moisture and heat coupling. Based on the heat exchange conditions and moisture exchange conditions between concrete and the surrounding environment, boundary conditions are established; Under the boundary conditions and initial conditions, the temperature distribution and humidity distribution in concrete are calculated by using the concrete moisture-heat coupling model, and the simulation results of concrete moisture-heat coupling are obtained. The simulation results are analyzed, and the simulation results of concrete coupled with moisture and heat are obtained. The invention provides data support for the prediction of the strength and shrinkage of concrete and technical support for the related research of concrete through the simulation analysis of damp-heat coupling of concrete.



21: 2024/01563. 22: 2024/02/22. 43: 2024/08/23 51: G09F

71: Henan University of Urban Construction 72: Mengyuan Yang, Gengrui Li, Wenjin Ji, Mingming Cui, Nana Xie

# 54: A NEW MEDIA ADVERTISING SCROLL BAR 00: -

The invention discloses a new media advertising scroll bar. The new media advertising scroll bar includes: The advertising scroll bar is provided with an advertising display frame, one end of the advertising display frame is provided with a motor, one end of the motor is fixed to install a rotating shaft, one end of the rotating shaft is fixed to install a rolling roller and installed in the inner upper and lower end of the advertising display frame, one end of the rotating shaft is provided with a rolling bearing, The inner bottom end of the advertising display frame is provided with a rolling roller, which can effectively save the high cost of replacement caused by the accidental damage of the electronic advertising screen, repair the circuit fault and other maintenance work, etc. The rolling mechanism of electric drive is adopted, and the electricity energy consumption is lower, which can save the electricity energy cost.



#### 21: 2024/01564. 22: 2024/02/22. 43: 2024/08/23 51: E21F

71: Taiyuan University of Science and Technology 72: XIE Jianlin, PANG Jiewen, SUN Xiaoyuan, LIU Kai, YANG Jie, WANG Hao, HAO Hongde, LI Yuan, SUN Dali

#### 54: MOVABLE DUST TREATMENT DEVICE IN COAL MINE WORK 00: -

The invention belongs to the technical field of dust removal of coal mine dust, and in order to solve the problems of low dust removal efficiency, large water consumption, high dust prevention cost and the like existing in the traditional dust removal method, the invention provides movable dust treatment device in coal mine work, which comprises an angle steel base, a steel frame and a plurality of groups of dust removal air ducts, wherein the dust removal air ducts are horizontally arranged, annularly distributed and fixed by the steel frame, the bottom of the steel frame is connected with the angle steel base, and the dust removal air ducts are connected through spray pipelines. The dust removal air duct has a stepped structure, including a primary drum, a secondary drum and a tertiary drum whose diameter is gradually increased. The dust removal equipment shown in the invention can be installed on shearer and roadheader, so that it can continuously remove dust along with the operation equipment, which greatly improves the working environment of shearer drivers, and has local dust removal effect. Compared with traditional spray dust removal, it can achieve
the most efficient dust removal effect with the minimum water consumption, and the dust removal efficiency is obviously improved.



#### 21: 2024/01582. 22: 2024/02/22. 43: 2024/08/23 51: C04B; C23C; H01L

71: KWON, Young-Wan

72: LEE, Suk-Bae, KIM, Ji Hoon, KWON, Young-Wan

33: KR 31: 10-2022-0106812 32: 2021-08-25 33: KR 31: 10-2022-0106845 32: 2022-08-25 54: ROOM-TEMPERATURE AND AMBIENT-PRESSURE SUPERCONDUCTING CERAMIC AND METHODS FOR PRODUCING THE SAME 00: -

Disclosed are a room-temperature and ambientpressure superconducting ceramic and methods for producing the same. The superconducting ceramic is represented by Formula 1:  $A_{10-x}B_x(PO_4)_6O$ wherein **A** is Ca, Ba, Sr, Sn or Pb, **B** is Cu, Cd, Zn, Mn, Fe, Ni or Ag, and **x** is 0.1 to 2.0. The superconducting ceramic exhibits superconductivity at room temperature and ambient pressure. The methods are suitable for producing the superconducting ceramic.



## 21: 2024/01596. 22: 2024/02/23. 43: 2024/08/27 51: A61K

71: Shaanxi Provincial People's Hospital 72: JIAO Fuyong, YAN Xiaohua, Feng Jianying, MU Zhilong, ZHANG Xipin, NIU Qian, GAO Ying, WANG Juyan, YAN Xianpeng, WANG Xia, HAN Wei, Han Tiantian, Gao Na, Li Rui

## 54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR PREVENTING AND TREATING CORONARY ARTERY LESION OF KAWASAKI DISEASE

00: -

The invention discloses a traditional Chinese medicine composition for preventing and treating coronary artery lesion of Kawasaki disease, which comprises the following raw materials in parts by weight: 6-9 parts of Pueraria lobata, 3-6 parts of Salvia miltiorrhiza, 3-6 parts of Ligusticum wallichii and 3-6 parts of Angelica sinensis. According to the invention, pharmacological effects of main chemical components of four medicines, namely Pueraria lobata, Salvia miltiorrhiza, Ligusticum wallichii and Angelica sinensis, are explored, and it is concluded that they all have the functions of increasing coronary blood flow, improving blood oxygen supply of myocardium and reducing oxygen consumption of myocardium; improving microcirculation can reduce platelet surface activity, inhibit platelet aggregation and prevent thrombosis. In traditional Chinese medicine, Pueraria lobata belongs to exteriorrelieving drugs, while Salvia miltiorrhiza, Ligusticum wallichii and Angelica sinensis belong to bloodactivating and blood-stasis-removing drugs, and they can be compatible with each other. This traditional Chinese medicine composition conforms to the principle of compatibility of Chinese medicines. Kawasaki disease belongs to systemic vascular inflammation, which mainly causes coronary artery damage in children. The traditional Chinese medicine composition is helpful to prevent and treat coronary artery lesion of Kawasaki disease. The invention has reasonable formula compatibility and remarkable efficacy; Low cost and little side effect; After clinical application, the curative effect is remarkable, which is worth popularizing.

# 21: 2024/01597. 22: 2024/02/23. 43: 2024/08/27 51: G01R

71: HUAINAN NORMAL UNIVERSITY, ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY 72: FENG Juqiang, CAI Feng, WANG Lu, ZHANG Xing, HUANG Kaifeng, ZHANG Shaoning 54: SOH EVALUATION METHOD FOR MINING LITHIUM-ION BATTERIES 00: -

The invention discloses an SOH evaluation method for mining lithium-ion batteries, which comprises the

following steps: extracting health features from the cyclic charging and discharging data of the mining lithium-ion battery, introducing canonical correlation analysis CCA to construct a feature fusion vector based on the health features, and obtaining a comprehensive health feature C-HF; CEEMD is used to smooth the comprehensive health features C-HF and SOH, and the original data of the battery to be tested in a stable frequency range are extracted. Based on the sparrow search algorithm SSA, the LSTM and SVM are optimized to build an improved ensemble learning model. Based on the original data of the battery to be tested and the comprehensive health features C-HF, the SOH of the mining lithiumion battery was evaluated by an improved ensemble learning model. The method has the best prediction effect on SOH of the mining lithium-ion battery, not only has high prediction accuracy, but also has strong robustness, and the estimation results are closer to the actual SOH.



21: 2024/01598. 22: 2024/02/23. 43: 2024/08/27 51: B66C

71: Taiyuan University of Science and Technology 72: Wang Wenhao, Cui Jiajin, Jia Guoqiang, Liu Shifu, Xu Mingjun, Wang Yueqi

#### 33: CN 31: 2024101325979 32: 2024-01-31 54: AN AUTOMATED LIFTING DEVICE AND PROCESS FOR BULK MATERIALS 00: -

This invention discloses an automated lifting device and process for bulk materials, comprising a lifting assembly and a woven bag. The lifting assembly includes a drive device, bearing upper cover plate, thrust spherical roller bearing, bearing lower cover plate, connecting part, extension part, connecting shaft, and frame. The upper end of the thrust spherical roller bearing is connected to the bearing upper cover plate, and the lower end is connected to the bearing lower cover plate. The drive device is placed on the bearing upper cover plate, and connecting parts are evenly arranged below the bearing lower cover plate, with extension parts and connecting parts connected through a connecting shaft. This invention achieves the automatic lifting and unloading of bagged materials, featuring a simple structure, easy installation, and good safety performance. Additionally, it liberates individuals from strenuous manual labor and harsh, hazardous working environments, significantly improving work efficiency.



21: 2024/01631. 22: 2024/02/26. 43: 2024/08/27 51: B29C

71: Central South University

72: Xinna Bai, Hao Pan

# 54: A PRINTING PLATFORM ADJUSTING STRUCTURE OF A 3D PRINTER

00: -

The invention discloses a printing platform adjusting structure of a 3D printer, belonging to the technical field of a 3D printer, comprising a adjusting structure body, one end of the adjusting structure body is provided with a fine-tuning component, a convenient disassembly component is provided above the finetuning component, and a printing platform body is provided above the convenient disassembly component. The invention provides a support, a

transverse plate, a square inserting rod, a clamping block, a pulling rod, an extruding block and a clamping spring to facilitate the removal of the printing platform body from the adjusting structure for maintenance or replacement, and provides a transverse screw rod, a transverse motor and a square transverse sliding block to facilitate the removal of the transverse plate from the 3D printer, thus facilitating the disassembly and assembly of the printing platform body and improving the practicability of use. The invention provides a finetuning base, a rotating rod, a rotating handle, a conical gear i, a conical gear ii, a fine-tuning screw and a fine-tuning plate, which are convenient for fine-tuning the height of the printing platform body and improve the practicability of use.



21: 2024/01633. 22: 2024/02/26. 43: 2024/08/27 51: G01G

71: Tai'an Institute for Food and Drug Control (Tai'an Fiber Inspection Institute)

72: Liu Bin, Yuan Yanfei, Wu Xue, Zhang Junpeng, Ding Fujuan, Zhou Haiyan

## 33: CN 31: 202311103593.X 32: 2023-08-30 54: SAMPLE ADDING DEVICE OF ELECTRONIC BALANCE FOR TESTING

00: -

The present invention relates to a sample adding device of an electronic balance for testing, falling within the technical field of food and medicine inspection. The device includes an electronic balance and an open wind-proof cover. A top of the open wind-proof cover is arranged with a removable top cover; a conveying pipe, a transmission belt for transmitting materials, a transmission belt retaining block and a charging barrel are fixed on the top cover; an upper blocking mechanism and a lower blocking mechanism are arranged at a bottom of a hopper, and there is a certain distance between the two blocking mechanisms, the material to be measured is stored within the distance. The transmission belt retaining block drives the upper blocking mechanism to block the bottom of the hopper, and then the transmission belt retaining block drives the lower blocking mechanism to be open to cause the material to be measured to drop on the transmission belt, and the material to be measured is transported to the electronic balance through the transmission belt. The wind-proof cover is kept completely sealed during the measurement, thereby reducing the impact on the electronic balance, ensuring the accuracy of weighing, further reducing the number of opening cover and taking samples, and improving the work efficiency. The device has small vibrations of manual rotation, a simple structure and easy operation, reducing the impact of vibrations on the electronic balance.



- 21: 2024/01634. 22: 2024/02/26. 43: 2024/08/27
- 51: B07C
- 71: East China Jiaotong University, Xinyu University

72: Liu Kai, Wu Guangsheng, Huang Yulong, Feng Daoming, Pan Cheng 54: DEVICE FOR SCANNING LOGISTICS

# PACKAGE BASED ON BIG DATA

The present invention provides a device for scanning logistics package based on big data, includes a base plate. A cylinder is fixedly connected to a top of the base plate, a first conveyor belt is arranged on a right side of the base plate, first baffle plates are both arranged at front and rear sides of the first conveyor belt, a package inlet is disposed on a right side of the cylinder, a first servo motor is fixedly connected to an inner wall of the cylinder, and a fixed column is fixedly connected to an output end of the first servo motor. In the present invention, by means of the linkage among the first servo motor, a fixed column, demarcation plates, electric push rods and ejection plates, etc. the packages are separated by the demarcation plates to achieve the neat transportation of the packages.



21: 2024/01636. 22: 2024/02/26. 43: 2024/08/27 51: G06F

71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

# 72: CHANG, Lei

# 54: COMPUTER NETWORK SECURITY EARLY WARNING DEVICE

00: -

The present invention discloses a computer network security early warning device in the technical field of computer network security. The early warning device includes several distributed computer network data acquisition devices, several detection centers, and several network security early warning centers; the computer network data collection device performs data collection on the computer network and transmits the collected data to the detection center for processing; the detection center processes the received network data, performs corresponding judgment on an attack object of the network, and uploads the detected information to the network security early warning center; and the network security early warning center predicts threats existing in the network through corresponding processing, and then feeds back specific situations of intrusion to a system administrator for early warning.



21: 2024/01637. 22: 2024/02/26. 43: 2024/08/27 51: H04L

71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

72: CHANG, Lei

#### 54: CLOUD COMPUTING-BASED NETWORK RESOURCE MANAGEMENT SYSTEM 00: -

The present invention discloses a cloud computingbased network resource management system in the technical field of network resource management. The system includes a network resource collection device, a cloud computing platform, and a network resource allocation device; the network resource collection device is configured to collect network resources, integrate the network resources, and send the integrated network resources to the cloud computing platform; the cloud computing platform is configured to process the received network resources to acquire the network resources, formulate a network resource dynamic adjustment policy based on the acquired network resources, and download the network resource dynamic adjustment policy to the network resource allocation device; and the network resource allocation device is configured

to dynamically adjust the network according to the received network resource dynamic adjustment policy. The system can effectively improve the network transmission utilization rate and has high computing speed and low costs.



21: 2024/01651. 22: 2024/02/26. 43: 2024/08/27 51: E21B; E21D

71: CHINA COAL TECHNOLOGY AND ENGINEERING GROUP TAIYUAN INSTITUTE, SHANXI TIANDI COAL MINING MACHINERY CO., LTD.

72: JIN, Jiang, ZHOU, Xu, ZHANG, Dongbao, LV, Jishuang, REN, Xiaowen, TIAN, Yuan, SONG, Mingjiang, AN, Siyuan, LAN, Huimin, JIA, Yunhong, KANG, Peng, ZHANG, Yunbo, MI, Xiongwei, YAN, Jinbao, ZHANG, Licai, MA, Zhaoning, MI, Haoding 33: CN 31: 202111416873.7 32: 2021-11-25 **54: ANCHORING AND PROTECTING VEHICLE** 00: -

The present invention discloses an anchoring and protecting vehicle, including a vehicle body, a net hanging apparatus, an anchoring and drilling apparatus, an anchoring agent conveying apparatus, a control apparatus, and a cable winding apparatus, where the net hanging apparatus includes a net hanging arm assembly and a support frame, the net hanging arm assembly is connected to the vehicle body, the support frame is rotatably connected to a free end of the net hanging arm assembly, the support frame is capable of sliding relative to the net hanging arm assembly, and the support frame is capable of absorbing and fixing an anchor net; the anchoring and drilling apparatus includes a positioning arm assembly and an anchoring silo; an anchor rod drilling machine is rotatably connected to a free end of the positioning arm assembly; the anchoring agent conveying apparatus includes a pushing mechanism, a storage box, a conveying pipe, and a hole aligning assembly, a plurality of storage pipes are provided in the storage box, the storage pipe has an adjustable position, and the hole aligning assembly is configured to align the conveying pipe with a drilled hole; the net hanging apparatus, the anchoring and drilling apparatus, and the anchoring agent conveying apparatus are all

electrically connected to the control apparatus; and the cable winding apparatus is disposed on the vehicle body and configured to wind a cable. The anchoring and protecting vehicle of the present invention achieves an automated and intelligent anchoring and protecting operation, reduces the labor load intensity, and improves the working efficiency.



21: 2024/01652. 22: 2024/02/26. 43: 2024/08/27 51: B65G; E21D

71: CHINA COAL TECHNOLOGY AND ENGINEERING GROUP TAIYUAN INSTITUTE, SHANXI TIANDI COAL MINING MACHINERY CO., LTD.

72: ZHANG, Dongbao, AN, Siyuan, ZHANG, Yunbo, BI, Yueqi, PANG, Yu, ZHU, Zhentian, YAN, Jinbao, LAN, Huimin, YAN, Zhen, DU, Yuxiang, KANG, Peng, BAI, Xuefeng, YANG, Xiaofeng, ZHANG, Fuxiang, ZHANG, Licai

## 33: CN 31: 202110997093.X 32: 2021-08-27 54: DOUBLE-BOX SWITCHING TYPE ROOF BOLTER

# 00: -

Disclosed is a double-box switching type roof bolter, including a machine frame, a chain conveying system, a pushing mechanism, a drill box, an anchor box, a feeding assembly, and a switching assembly, where the chain conveying system is arranged on the machine frame and rotatable about an axial direction of the machine frame, a plurality of fixing structures are arranged on a peripheral side of the chain conveying system, arranged at intervals along

a circumferential direction of the machine frame, and configured to fix anchor rods, and the chain conveying system is configured to drive the anchor rods to rotate along the circumferential direction of the machine frame and move to a first position; the pushing mechanism is arranged on the machine frame and suitable for pushing the anchor rods moving to the first position to a second position; and the drill box and the anchor box are both slidably assembled on the machine frame in a guiding manner, the drill box has a first working position and a first waiting position, and the anchor box has a second working position and a second waiting position. The double-box switching type roof bolter according to the present disclosure improves the automation and reliability of drilling operation and ensures stable operation thereof.



21: 2024/01659. 22: 2024/02/27. 43: 2024/08/28

#### 51: C07K

71: Nanjing Normal University, Jiangsu Tianmeijian Nature Bioengineering Co., Ltd.

72: WANG, Xiaojun, YANG, Zhou, JIANG, Hechun, WANG, Rongchang, LU, Qingguo, GE, Wenjin, TAO, Mingxuan, CHEN, Chao, GUO, Benzhao, ZHANG, Zi'ang, CHEN, Fei, CHENG, Guangyu, LI, Ling, SUN, Zhongwei, REN, Yong 33: CN 31: 202310905991.7 32: 2023-07-24

## 54: METHOD FOR SIMPLE AND RAPID SEPARATION AND PURIFICATION OF SIGA FROM BOVINE COLOSTRUM 00: -

The present invention discloses a method for simple and rapid separation and purification of SIgA from bovine colostrum, including: carrying out centrifugal defatting on the bovine colostrum in a centrifuge; adding a saturated ammonium sulfate solution to colostrum whey, centrifuging to retain an ammonium sulfate precipitate, adding a phosphate buffer solution for dissolving, adding the ammonium sulfate solution, and centrifuging under the same conditions as above to obtain crude SIgA; dissolving the crude SIgA with the phosphate buffer solution and centrifuging, dissolving a supernatant with the phosphate buffer solution, and carrying out ultrafiltration concentration with an ultrafiltration membrane; adding a crude SIgA sample into an ultrafiltration tube; carrying out 5-50 percent linear gradient SW28 ultracentrifugation, and collecting and preserving using a component collection system; and adding the combined high-purity bovine colostrum SIgA into the ultrafiltration tube again, and carrying out 10-60 percent linear gradient SW41 ultracentrifugation.



- 21: 2024/01661. 22: 2024/02/27. 43: 2024/08/28 51: C08L
- 71: Taiyuan University of Technology
- 72: Ruimiao LIANG, Wenwen YU, Jiahao SHEN, Jiayi WANG, Yi Zhang, Zhiyi ZHANG

#### 33: CN 31: 2023116797107 32: 2023-12-08 54: A PREPARATION METHOD FOR THE OUTER BOX OF LOW TEMPERATURE HIGH IMPACT RUBBER MODIFIED POLYOLEFIN AIRDROP BOX 00: -

The invention relates to a preparation method for the outer box of low temperature high impact rubber modified polyolefin airdrop box, involving the preparation technology field of airdrop box, the steps are as follows: polypropylene resin, high density polyethylene resin, ethylene-propylene rubber, polyolefin elastomer grafted maleic anhydride rubber, nucleating agent, 2-hydroxy-4-n-octyloxy benzophenone and N-butyl-2,2,6,6-tetramethyl-4piperidineamine are weighted; the weighed raw materials are pre-mixed and poured into a highspeed kneading pot to obtain the composite material; the composite material is put into a twinscrew extruder to obtain the polypropylene alloy pellets; the polypropylene alloy pellets are added to the injection molding machine to obtain the outer box plate; the outer box plate is assembled to obtain the outer box of the rubber modified polyolefin airdrop box. The invention adopts the above steps, and the density of the outer box of the airdrop box is 0.85kg/m3, it has the characteristics of light weight, high strength and high toughness, and it can protect the internal objects in extreme environments and has excellent application prospects in airdrop transportation.



21: 2024/01662. 22: 2024/02/27. 43: 2024/08/28 51: G06F 71: Zhuhai City Polytechnic

72: ZHU, Shaoping, ZHU, Leping, LUN, Zhiguo, CHEN, Cong, YANG, Lin, LIU, Xiangjun

## 54: DEEP LEARNING BASED METHOD AND DEVICE FOR INTELLIGENTLY MONITORING SUB-HEALTH STATE OF INDUSTRIAL APPARATUS

#### 00: -

Disclosed is a deep learning based method and device for intelligently monitoring a sub-health state of an industrial apparatus. The method includes: completing data acquisition by means of a main processing module; carrying out feature engineering construction on a plurality of groups of data of the data acquisition; carrying out data division on data of the feature engineering construction; carrying out model construction on a processing structure of the data division; and comparing structures of the model construction to complete state recognition. According to the present invention, sampled research samples are divided into a training set, a test set and a verification set to complete construction of a deep learning network, then a model is constructed to carry out research on a subhealth state recognition model based on the deep learning network, performance of the sub-health state recognition model.



21: 2024/01663. 22: 2024/02/27. 43: 2024/08/28 51: C12Q

71: Taizhou Institute of Product Quality and Safety inspection, Comprehensive Technical Service Center of Tangshan Customs

72: LI, Wenjie, WENG, Xiaowei, LIU, Xiaohui, ZHANG, Yihan, HONG, Wei, HUANG, Huichao, CUI, Zongyan, ZHANG, Yiqin, SUN, Jizan

## 54: METHOD FOR TESTING ANTIFUNGAL ACTIVITY OF ANTIBACTERIAL CERAMICS 00: -

The present invention provides a method for testing the antifungal activity of antibacterial ceramics and an ATP bioluminescence IgCA-IgIA standard curve method for testing the antifungal activity of

antibacterial ceramics characterized by an antibacterial rate R or an antibacterial activity value A using an ATP fluorescence spectrometer, which can solve the problem of an accurate and quantitative test on the antifungal activity of antibacterial ceramics and antibacterial materials and products in other product fields.



21: 2024/01664. 22: 2024/02/27. 43: 2024/08/28 51: G01M

71: Hangzhou Dianzi University Information Engineering College

72: LIU, Xiangqi, ZHENG, Jiansheng, SUI, Yongfeng, XU, Yunbin, FENG, Junwei, SHAO, Yanhong, ZHOU, Lvmin, ZHU, Zefei, TU, Tianxing, MENG, Zhen

#### 54: VIBRATION RESISTANCE TESTING APPARATUS AND METHOD FOR INLET GUIDE VANE ELECTRO HYDRAULIC SERVO SYSTEM 00: -

The present invention discloses a vibration resistance testing apparatus and method for an inlet guide vane (IGV) electro hydraulic servo system. A composite vibration apparatus of mechanical vibration and fluid-induced vibration is used to simulate mechanical vibration and fluid vibration induced by airflow between mechanical structures when a mechanism operates and perform a single vibration test or a composite vibration test under a complicated working condition to verify and optimize the service performance of the electro hydraulic servo system under a vibration environment.



## 21: 2024/01667. 22: 2024/02/27. 43: 2024/08/28 51: A01K

71: Xinjiang Academy of Agricultural and Reclamation Sciences

72: Yu Qian, Yang Yonglin, Yang Hua, Zhang Delin, Zhang Wenzhe, Wang Gang, Lin Zhenghui, Chen Ping

## 54: FEEDING DEVICE AND FEEDING METHOD FOR SHEEP HOUSE FOR LIVESTOCK BREEDING

00: -

The present invention discloses a feeding device and feeding method for sheep house for livestock breeding, includes a support base. recovery tanks are arranged at one end above the support base, a feeding tank is arranged at one end inside the support base, and a discharging device is arranged at one end above the support base; in the present invention, the feeding trough and a cleaning device are used to solve the problem that sheep needs to be fed in the process of breeding the sheep, but the general feeding method is to pour the sheep's food into a trough to feed the sheep; there are some requirements for the trough, otherwise sheep can kick the trough when eating; and the trough will increase when breeding multiple sheep, so that the amount of feed is more difficult to control, also avoid the need to clean the trough after feeding, otherwise there can be a problem that the trough is not clean, which will breed pathogenic microorganisms such as bacteria and viruses, thus affecting the growth and health of the sheep.



21: 2024/01668. 22: 2024/02/27. 43: 2024/08/28 51: B29C

71: Jiangsu College Of Safety Technology 72: Zhang Jiguang, Chen Hairong, Zhang Xing 33: CN 31: 202311029330.9 32: 2023-08-16 54: DEVICE FOR RADIATING HEAT OF 3D PRINTER SPRAY HEAD 00: -

The present invention provides a device for radiating heat of 3D printer spray head, including a base. A mounting rod is fixedly connected to an upper end of the base, mounting grooves are arranged on an upper end of the mounting rod, a mounting frame is slidably connected to an inner wall of the mounting grooves, and a spray head is fixedly connected to an inner top of the mounting frame; a cooling mechanism for cooling the spray head is mounted on the mounting frame, the cooling mechanism includes a fixed rod fixedly connected to the inner top of the mounting frame, radiating pipes are fixedly connected to a lower end of the fixed rod, and both ends of the radiating pipes are arranged with openings; and a rotary shaft is rotatably connected to a side wall of the mounting frame, one end of the rotary shaft extends into the radiating pipes and is symmetrically and fixedly connected to a plurality of fan blades, and an upper end of the mounting frame is fixedly connected to a liquid storage tank. According to the cooling mechanism disclosed by the present invention, the spray head can be rapidly cooled and radiated, so that other components can be prevented from being dissolved and burned due to overhigh temperature of the spray head; and compared with the prior art that a fan is arranged separately for radiating, the cooling effect is better and the radiating efficiency is higher.



#### 21: 2024/01674. 22: 2024/02/27. 43: 2024/08/28 51: A23L

71: Guangdong Ocean University

72: CAO Wenhong, WANG Renjia, CHEN Zhongqin, GAO Jialong, ZHENG Huina, QIN Xiaoming 33: CN 31: 2022108974162 32: 2022-07-28 54: SCALLOP SELENIUM-ENRICHED COMPOSITE PROTEIN POWDER AND PREPARATION PROCESS THEREOF 00: -

The invention discloses a scallop selenium-enriched composite protein powder and a preparation process thereof, and relates to the field of food application and development. The scallop selenium-enriched composite protein powder comprises the following components in parts by weight: 450-610 parts of scallop selenium-enriched protein powder base material, 200-450 parts of selenium-enriched plant protein powder, 4-8 parts of honey powder, 6-8 parts of pineapple powder, 20-30 parts of trichlorocaramel, 85-95 parts of maltodextrin, 30-35 parts of sodium hydroxymethyl cellulose, 18-20 parts of soybean lecithin and 7-8 parts of L-lactate calcium. According to the invention, the scallop protein seleniumenriched protein powder base material is prepared by an enzymatic hydrolysis process, and is used as a main protein source; through compatibility with plant protein, the characteristic that the scallop selenium-enriched protein powder base material is extremely easy to absorb water is improved; and meanwhile, the compound emulsifier is added to

improve the blending stability of the protein powder, so that the scallop protein selenium-enriched protein powder is delicate in taste, mellow in flavor, nutritious and healthy, and has a good selenium supplementing effect; and the preparation method is simple and convenient for industrial production.



21: 2024/01697. 22: 2024/02/28. 43: 2024/08/28 51: A23K

71: Ganzhou Animal Husbandry And Fisheries Research Institute

72: GUO, Xiaobo, LIN, Xiaocui, HUANG, Jifa, DING, Wuyi, LIU, Ruiping, LIAN, Hai, HU, Yan, ZHONG, Ruyi, SHI, Humin

#### 54: ORGANIC SELENIUM FEED ADDITIVE AND PREPARATION METHOD THEREFOR 00: -

Disclosed are an organic selenium feed additive and a preparation method therefor, which belong to the technical field of feed additives. The organic selenium feed additive is provided by the present invention and includes components in parts by mass of 30-80 parts of orange juice residue, 17-67 parts of refined and coarse grain flour, 1-1.5 parts of sugar, 1 part of microbial inoculum and 0.6-2 parts of sodium selenite; and the microbial inoculum includes Bacillus subtilis, Saccharomyces cerevisiae and Lactobacillus plantarum. According to the present invention, the organic selenium feed additive rich in VC and aromatic oil is produced using orange juice residues, such that the problem of difficult treatment of the orange juice residues in juice production enterprises is solved, and harmless treatment of the orange juice residues is realized.

21: 2024/01698. 22: 2024/02/28. 43: 2024/08/28 51: F17D 71: SHANGHAI OCEAN UNIVERSITY 72: CHU Wenhua, ZHAO Zijing, YAN Jifeng, WANG Yibo

#### 33: CN 31: 2023235447000 32: 2023-12-25 54: INTELLIGENT CLEANING ROBOT FISH FOR OFFSHORE CAGE 00: -

The invention discloses an intelligent cleaning robot fish for offshore cage, which relates to the field of underwater robots. It comprises a robot fish, wherein the robot fish is provided with an inner cavity and an outer cavity; a centrifugal pump fixedly connected with the robot fish cavity, and the water inlet of the centrifugal pump is communicated with the outside of the robot fish cavity; a water spraying disc arranged below the robot fish, and the water spraying disc is communicated with the water outlet of the centrifugal pump through a fixed rotary sealing shaft; and a cavitation nozzle used for cleaning the offshore cage, wherein the cavitation nozzle is communicated with the water spraying disc. By remotely controlling the robot fish, the robot fish is adsorbed on the surface of the offshore cage for cleaning by using the water spraying disc and cavitation nozzle arranged on the robot fish, so that the remote cleaning of the offshore cage by remotely controlling the robot fish is realized, and the cleaning process of the offshore cage is more convenient and efficient.



21: 2024/01699. 22: 2024/02/28. 43: 2024/08/28 51: C09D

71: Hunan Guocai New Material Co., Ltd.

72: HE, Lindao, CHEN, Wei, LIU, Heng 54: MULTIFUNCTIONAL DIFFUSELY-REFLECTING INTERIOR WALL COATING CAPABLE OF PREVENTING MYOPIA 00: -

Provided is a multifunctional diffusely-reflecting interior wall coating capable of preventing myopia. The multifunctional diffusely-reflecting interior wall coating is composed of the following materials in parts by weight: 10-25 parts of purified water, 1-2 parts of nano bentonite, 0.2-0.5 part of dispersant, 0.2-0.5 part of defoamer, 0.1-0.2 part of AMP-95, 3-5 parts of hexacyclic stone powder, 3-5 parts of medical stone powder, 5-10 parts of 800-mesh barium sulfate, 1-2 parts of nano barium sulfate, 3-5 parts of titanium dioxide, 1-2 parts of nano silica light-absorbing powder, 0.5-1 part of nano carbon fiber, 1-2 parts of nano magnesium oxide, 5-8 parts of 600-mesh magnesium oxide, 2-3 parts of hollow glazed hollow bead, 5-8 parts of pine needle meal, 3-5 parts of bamboo powder, 3-5 parts of corncob powder, 20-30 parts of self-made formaldehyde removing glue, 0.5-1 part of odor purifying and environmentally-friendly film forming additive and 0.3-0.5 part of thickener.

#### 21: 2024/01700. 22: 2024/02/28. 43: 2024/08/28 51: F16N 71: Ningbo Polytechnic

71: Niligbo Polytec 72: Tao Lv

## 54: MAGNETIC FIELD GENERATOR BASED ON MAGNETIC FLUID ATOMIZATION LUBRICATION 00: -

The invention provides a magnetic field generator based on magnetic fluid atomization lubrication, which comprises a housing, a gas-liquid coaxial pipe, a quick plug joint, a reducer union, a double pagoda joint, a transition pipe, an electromagnetic coil, an enameled copper wire, a spring contact, a steady-current power supply transmission line joint, a liquid pipe, a peristaltic pump, a single pagoda joint, a gasket, a liquid storage box and a liquid storage box cover; the housing is internally provided with a cooling bin, an airway, a pipe threaded hole, a coolant inlet channel, a coolant outlet channel and a copper wire guiding hole; the enameled copper wire is firstly wound on the inner copper pipe, then the outer copper pipe is sleeved on the inner copper pipe wrapped with the enameled copper wire, and then the enameled copper wire is continuously wound on the surface of the outer copper pipe to form a series-connected double-layer electromagnetic coil; the enamelled copper wire led out from the electromagnetic coil is led out and

connected to the spring contact through the copper wire guiding hole in the housing; one end of the steady-current power supply transmission line joint is connected with the steady-current power supply, and the other end of the steady-current power supply transmission line joint is pressed against the spring contact to fully contact and supply power to the electromagnetic coil to generate a magnetic field; one end of the gas-liquid coaxial pipe is communicated with an aerosol lubricating device, and the other end is fixed on the housing through a quick plug joint and a reducer union; one end of the double pagoda joint is connected with the liquid pipe, and the other end is connected with the transition pipe, and the transition pipe is connected with the inner copper pipe in the electromagnetic coil to form a passage, and the cutting fluid flows through the electromagnetic coil and is influenced by the magnetic field to form magnetized cutting fluid; the compressed air in the gas-liquid coaxial pipe enters the universal bamboo joint pipe through the airway in the housing, and the magnetized cutting fluid in the liquid pipe in the universal bamboo joint pipe is mixed with the compressed air at the nozzle to form magnetized gas mist and sprayed to the processing area for lubrication and cooling. The housing is connected with a single pagoda joint, a liquid pipe and a peristaltic pump, and the coolant is pumped into the coolant channel, the cooling bin and the coolant outlet channel through the liquid storage box to form a loop to continuously cool the electromagnetic coil in the cooling bin. The patent of the invention has the characteristics of stable and reliable magnetic field generation, good cooling effect on the electromagnetic coil, little influence of the magnetic field on the processed workpiece, high integration, convenient disassembly and assembly and the like.



21: 2024/01701. 22: 2024/02/28. 43: 2024/08/28 51: E04B

- 71: Bengbu University
- 72: CHEN, Lingling

# 54: ANTI-VIBRATION JOINT STRUCTURE FOR SELF-RESETTING PREFABRICATED BEAM COLUMN

#### 00: -

Disclosed is an anti-vibration joint structure for a selfresetting prefabricated beam column. The antivibration joint structure for a self-resetting prefabricated beam column includes a prefabricated column, a first prefabricated beam and a second prefabricated beam. The first prefabricated beam and the second prefabricated beam are arranged on left and right sides of the prefabricated column by means of connecting assemblies, a plurality of first prestressed reinforcing steel bars and a plurality of second prestressed reinforcing steel bars are embedded in the first prefabricated beam and the second prefabricated beam, and two ends of shearresistant connection reinforcing steel bars are fixedly connected to first energy consumption members and second energy consumption members separately. The first prestressed reinforcing steel bars and the second prestressed reinforcing steel bars of the structure are anchored in a crossed manner.



#### 21: 2024/01702. 22: 2024/02/28. 43: 2024/08/28 51: H04L

71: Jiaxing Vocational & Technical College
72: Wenhong Xiao, Chunfang Gao
33: CN 31: 202310809816.8 32: 2023-07-04
54: INTELLIGENT DETECTION METHOD AND
DEVICE FOR NETWORK INFORMATION
SECURITY
00: -

The invention discloses an intelligent detection method and device for network information security, which comprises the following steps: standardizing traffic data collected in network information, obtaining standard traffic data and constructing a traffic characteristic correlation matrix, performing characteristic value decomposition on the traffic characteristic correlation matrix to obtain a traffic characteristic vector and a traffic characteristic value, selecting the traffic characteristic vector as a traffic characteristic according to the traffic characteristic value, mapping the standard traffic data onto the traffic characteristic to obtain preprocessed traffic characteristic data, according to the standard deviation and average value of preprocessed traffic characteristic data, the abnormal traffic detection model is determined, and the abnormal traffic value is obtained by detecting the preprocessed traffic characteristic data through the abnormal traffic detection model. When the abnormal traffic value is greater than the preset abnormal threshold, it is determined that the preprocessed traffic characteristic data is abnormal traffic data, and when the abnormal traffic data is

detected, warning information is sent to the control center, which can solve the problems of low accuracy and high false alarm of network information security detection results.



#### 21: 2024/01703. 22: 2024/02/28. 43: 2024/08/28 51: A01G

71: Xinyu University

72: Xie Lianping, Li Xuezhu, Zeng Xiaorong, Li Xiaojun, Zhang Haitao, Zhan Xingxin, Huang Xiaohua

#### 54: AUTOMATIC PICKING DEVICE AND PICKING METHOD SUITABLE FOR LENTINULA EDODES 00: -

The present invention provides an automatic picking device and picking method suitable for Lentinula edodes, the device including a device control cabinet. An end of a side part of the device control cabinet is telescopically connected to mushroomstem drivers, a limiting annular groove is disposed at an interior of an upper part of a front surface of the device control cabinet, an interior of the limiting annular groove is fixedly connected to a limiting inner thin column, and an end of the limiting inner thin column; an end of the limiting outer thick column; an end of the limiting outer thick column is fixedly connected to a rotary servo motor, an end of the rotary servo motor is rotatably connected to an electrode rotating shaft, an end of the electrode rotating shaft is fixedly connected to a limiting shaft rod, an end of the limiting shaft rod is inserted into a connecting base, and an end of the connecting base is fixedly connected to a cutterhead hydraulic cabinet through screws. In the present invention, a distance between two groups of the mushroom-stem drivers is telescopically controlled through telescopic rods of the driver, two groups of track conveyors are controlled by angle servo motors to rotate inwards to form an included angle, and due to the included angle from small to large between the track conveyors, the mushroomstems picked, when being conveyed to the rear, fall into the mushroom-stem conveyor downwards.



# 21: 2024/01705. 22: 2024/02/28. 43: 2024/08/28

51: G09B

71: Xinyu University

72: Li Xuezhu, Xie lianping, Zeng Xiaorong, Lin Zhi, Huang Renjing, Li Xiaoyong

#### 54: DISPLAY DEVICE FOR CUSTOMS DECLARATION AND INSPECTION PROCESSES IN INTERNATIONAL TRADE 00: -

Disclosed is a display device for customs declaration and inspection processes in international trade, falling within the technical field of display devices. An automatic lifting device includes a motor and a

connecting plate, the motor is fixedly connected to a fixed plate, the connecting plate is slidably connected to limit sliding strips, an output end of the motor is fixedly connected to a rotary disc, the rotary disc is fixedly connected to a connecting arm via a fixed shaft, the connecting arm is rotatably connected to a rotation table via a transmission shaft, and a bottom of the connecting plate is fixedly connected to telescopic spring columns. According to the present invention, the rotary disc is driven by the motor, the rotary disc drives the rotation table to move in the rotation groove via the connecting arm, and the connecting plate moves upward by means of the elastic characteristics of the telescopic spring columns, so that the display plate can be extended from an interior of the protective box to an exterior of the top of the protective box, and can be retracted to the interior of the protective box by an opposite movement when not being displayed, thereby achieving the effects of protecting the display plate and preventing damage and soiling.



21: 2024/01709. 22: 2024/02/28. 43: 2024/08/28 51: G06F

- 71: WEIFANG UNIVERSITY
- 72: ZHANG, Huihui

# 54: GPU RESOURCE ALLOCATION METHOD AND SYSTEM

00: -

The present invention discloses a graphics processing unit (GPU) resource allocation method and system, and relates to the technical field of networks. The method includes the following steps: S1: obtaining a target task, where the target task includes obtaining a size of occupied resources; S2: determining a relationship between the size of total processing resources of a plurality of pending GPUs and the size of occupied resources, when the size of occupied resources is less than or equal to the size of total processing resources of the plurality of pending GPUs, going to S3, otherwise, going to S4; S3: sorting the plurality of pending GPUs in a descending order of idle time, and allocating the plurality of pending GPUs according to the sorting results to complete the target task; S4: calling pending central processing units (CPUs), and combining the pending CPUs with the pending GPUs, to complete the target task. The present invention is capable to prevent GPU processing resources from being idle all the time and improve a utilization rate of GPUs.



21: 2024/01710. 22: 2024/02/28. 43: 2024/08/28 51: B65G

71: Luguo Zhang, Chenxi Zhang, Chenyu Zhang 72: Luguo Zhang, Chenxi Zhang, Chenyu Zhang 54: PIPELINE TRANSPORTATION SYSTEM AND TRANSPORTATION METHOD WITH POWER OPTIMIZATION

00: -The present invention relates to the technical field of pipeline transportation, and specifically relates to a pipeline transportation system with power optimization and a transportation method. The transportation pipeline in the external motor-driven pipeline transportation system is adapted to various terrain and geological conditions, and the power wheel is driven to move by a motor set outside the transportation pipeline, and using the magnetic force between an electromagnet and a permanent magnet, the power unit pulls the transportation mechanism to complete transportation inside the transportation pipeline. The fluid medium inside the pipeline does not need to flow as a whole, which further improves the transportation efficiency and reduces the energy consumption of the power unit in the transportation process in the case of a smaller carrying capacity. The pipeline transportation system with built-in propeller utilizes the propeller installed at the rear end of the power module to drive the transportation mechanism directly inside the transportation pipeline to carry out the transportation. The fluid medium inside the transportation pipeline does not need to flow as a whole, and the transportation mechanism operates in the water of the transportation pipeline through its own power, only needing to overcome the resistance of the fluid medium, which further improves the transportation efficiency and reduces the energy consumption in the transportation process.

21: 2024/01716. 22: 2024/02/28. 43: 2024/08/28 51: A61K

71: GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD. 72: WANG, Yandong, SU, Yingxue, CAO, Chen,

ZHOU, Sheng'an, XUE, Yaping, WU, Meirong, YU, Chuiliang

33: CN 31: 202110951364.8 32: 2021-08-18 54: PHARMACEUTICAL COMPOSITION, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

00: -

A pharmaceutical composition, a preparation method therefor and an application thereof. The pharmaceutical composition comprises the following components: a compound represented by formula I, hydroxypropyl methyl cellulose, benzalkonium chloride, and a pH regulator. The pharmaceutical composition can be used for preparing drugs for preventing or treating cataracts. The pharmaceutical composition has excellent stability in respect of exposure to light and to high temperatures, can be stored at room temperature, is convenient for patients to use, has pH and osmotic pressure close to those in the intraocular environment, is uniform in particle size distribution, and thus can give the patients good comfort.

21: 2024/01747. 22: 2024/02/29. 43: 2024/08/29 51: G06F

71: Research Institute of Forest Resource Information Techniques, Chinese Academy of Forestry

72: TAN, Bingxiang, PANG, Lifeng, HE, Chenrui, LI, Xiaoyao

#### 54: ELECTRONIC DEVICE FOR ESTIMATING FOREST CARBON STORAGE 00: -

Disclosed is an electronic device for estimating forest carbon storage, which belongs to the field of forest carbon storage estimation. The electronic device includes a data acquisition module, a transmission unit and an upper computer that are sequentially connected; after acquiring monitoring data of a target forest, the upper computer extracts an optimal feature value of the target forest through an optimal feature value selection method; the optimal feature value is input into an optimal carbon storage estimation model, and an aboveground carbon storage estimation value of the target forest is output; and the optimal carbon storage estimation model is obtained by training a multiple linear regression model, a back propagation (BP) neural network model, a random forest regression model or an eXtreme gradient boosting (XGBoost) model by using a training data set.



21: 2024/01748. 22: 2024/02/29. 43: 2024/08/29 51: H04N 71: Hebei Tangxun Information Technology Co., Ltd.

72: ZHOU Xiangji, WANG Yujiang

33: CN 31: 202410112144X 32: 2024-01-26

54: SECURITY MONITORING PROBE BASED ON INTELLIGENT IMAGE RECOGNITION

00: -

The present invention discloses a security monitoring probe based on intelligent image recognition in the technical field of monitoring probes, which includes a monitoring probe. The monitoring probe is provided on a bracket, the bracket is provided on a fixed plate; the monitoring probe is provided with a signal transceiver, the signal transceiver is connected to a computer, an audible and visual alarm, and a beam emitter, and the audible and visual alarm and the beam emitter are both arranged on a fixed box. A driving assembly drives a moving assembly to work, so that a magnifying glass can be separated with the fixed box and move to the front of the monitoring probe. When the monitoring probe captures an image that may have safety hazards, the magnifying glass can capture the image more accurately and magnify the image to determine whether there is a safety hazard, thereby improving the accuracy of image recognition. When a safety hazard is identified, the audible and visual alarm will sound, and the beam emitter will send a beam to the hazard to achieve precise reminders.



## 21: 2024/01749. 22: 2024/02/29. 43: 2024/08/29 51: B06B

71: Nanchang Hangkong University, Changsha Aeronautical Vocational and Technical College, National University of Defense Technology 72: Ying ZHU, Xianke PENG, Xingxing YU, Dongbao GAO, Kaifeng HAN, Minwang FU, Xiaohu TANG, Jie WANG, Haofang OUYANG

#### 54: A FABRICATION METHOD AND APPLICATION METHOD OF NONLINEAR GUIDED WAVE DETECTION COMBINED TRANSDUCER 00: -

The present invention provides a fabrication method and application method of nonlinear guided wave detection combined transducer, which is involved in the field of ultrasonic testing technology. The transducer includes a transmitting transducer and a receiving transducer, the transmitting transducer is a single finger interdigital transducer, and the receiving transducer is a three-finger split finger interdigital transducer. Wherein the single-finger interdigital transducer can effectively reduce the second harmonic component in the transmitted signal, the three-finger split interdigital transducer as a receiving transducer can have the same response to the fundamental frequency and the second harmonic signal in the received signal, which can effectively improve the accuracy of nonlinear guided wave detection results.



- 21: 2024/01752. 22: 2024/02/29. 43: 2024/08/29 51: F25D
- 71: Suzhou Santuo Cold Chain Technology Co.,Ltd 72: Haibing Du, Ruiqiu Du

33: CN 31: 202323410240.2 32: 2023-12-14 54: A SOLAR MOVABLE REFRIGERATION HOUSE 00: -

The present invention belongs to the technical field of movable cold storage, and particularly relates to a solar movable refrigeration house, comprising a refrigeration house body; and a plurality of photovoltaic panels are mounted on a side wall of the cold storage warehouse body; and a refrigeration host is installed on the inner side wall of the cold storage warehouse body; the temperature generated by the refrigeration host can be controlled through the phase change cold storage pipe, meanwhile, due to the fact that the phase change unit is arranged in the control unit, the temperature condition in the cold storage warehouse body and the specific data

information during cargo transportation can be stored, in the process, the storage effect of the goods is affected to a certain extent, meanwhile, the practicability of the cold storage warehouse body is affected, at the moment, the temperature is controlled through the phase change cold storage pipe, and then the cold storage warehouse body can be selected according to the specific temperature of the goods, so that the practicability of the cold storage warehouse body is improved.



21: 2024/01755. 22: 2024/02/29. 43: 2024/08/29 51: A61K; A61P

71: GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD. 72: WANG, Yandong, SU, Yingxue, CAO, Chen, WU, Meirong, XUE, Yaping, YU, Chuiliang 33: CN 31: 202110951369.0 32: 2021-08-18 54: APPLICATION OF STEROID COMPOUND IN PREPARATION OF DRUG FOR PREVENTING AND/OR TREATING EYE FLOATERS 00: -

An application of a steroid compound in the preparation of a drug for preventing and/or treating eye floaters. The steroid compound can have good therapeutic, alleviative, and preventive effects on eye floaters, can alleviate and/or cure eye floaters to a great extent, and can improve visual clarity.

21: 2024/01761. 22: 2024/02/29. 43: 2024/08/29 51: B21D

71: SINOMA SCIENCE AND TECHNOLOGY (SUZHOU) CO., LTD.

72: WANG, Jun, WANG, Yanhui, MI, Kuan 33: CN 31: 202111030213.5 32: 2021-09-03 54: SPINNING FORMING APPARATUS AND METHOD FOR ALUMINUM INNER CONTAINER OF HIGH-PRESSURE HYDROGEN CYLINDER 00: -

A spinning forming apparatus for an aluminum inner container (1) of a high-pressure hydrogen cylinder, provided with an industrial control host, a main shaft driven to rotate, a clamping jaw unit controlled to open and close and connected to the main shaft to synchronously rotate, and a forming unit acting on a pipe blank, wherein the forming unit consists of a swing arm and a spinning roller (3) connected to an end portion of the swing arm, and the spinning roller is driven to rotate downwards along the rotating center of the swing arm to press against an outer wall of the pipe blank (11). The forming unit is provided with a feeding servo hydraulic cylinder connected to the industrial control host; the rotating center of the swing arm is driven by the feeding servo hydraulic cylinder to move in a Z-axis direction parallel to the main shaft.



- 21: 2024/01762. 22: 2024/02/29. 43: 2024/08/29
- 51: F25B; H01L
- 71: PAN, Yong
- 72: PAN, Yong

54: THROTTLE-COOLED INFRARED DETECTOR, INTELLIGENT MOLD AND INJECTION COMPRESSION MOLDING METHOD 00: -

Disclosed are a throttle-cooled infrared detector, an intelligent mold and an injection compression molding method. The throttle-cooled infrared detector includes a plurality of ultra-miniature coolers and a detector chip; the ultra-miniature coolers include base plates as well as high-pressure plates, chip layers, lower-pressure plates and cover plates which are sequentially arranged on the base plates; the chip layers are provided with expansion cavities, the high-pressure plates are provided with cooling air inlets and high-pressure flowing channels, and the high-pressure flowing channels communicate with the expansion cavities through throttling components; and the low-pressure plates are provided with cooling air outlets and low-pressure

flowing channels, various ultra-miniature coolers are in an array arrangement, such that the various expansion cavities communicate with each other to form a chip cooling cavity, and the detector chip is arranged in the clip cooling cavity.



21: 2024/01764. 22: 2024/02/29. 43: 2024/08/29 51: H05K

71: Wuhu Super Machinery R & D Technology Co. , Ltd.

72: Chen Xiaodong

#### 54: PART ENCAPSULATION DEVICE FOR ELECTRONIC EQUIPMENT MANUFACTURING 00: -

Disclosed is a part encapsulation device for electronic equipment manufacturing, including a base plate. A rear side of a top of the base plate is fixedly connected to a second U-shaped plate, output ends of second servo motors are penetrated by and fixedly connected to a first bidirectional threaded rod, and left and right sides of an outer ring of the first bidirectional threaded rod are thrededly connected to first nut pairs. According to the present invention, the second servo motors are turned on, the output ends of the second servo motors rotate to drive the first bidirectional threaded rod to rotate, thereby driving the first nut pairs and a cutting blade to move along a first slide rail to a middle part, and the excess waste at bag mouths can be cut off.



21: 2024/01788. 22: 2024/02/29. 43: 2024/09/04 51: B61L 71: CHINA RAILWAY BAOJI BRIDGE GROUP CO.,

71: CHINA RAILWAY BAOJI BRIDGE GROUP CO., LTD

72: SHI, Longbo, LEI, Jie, SHI, Qingfeng, YAN, Yuqing, LI, Chunqiang

33: CN 31: 202111061348.8 32: 2021-09-10 54: ONE-MACHINE, MULTI-POINT DRIVE MECHANISM FOR RAILWAY SWITCH 00: -

Embodiments of the present disclosure relate to a one-machine, multi-point drive mechanism for a railway switch. The one-machine, multi-point drive mechanism includes: pull rods, wherein the pull rods at least include a first pull rod and a second pull rod; the pull rods are hinged to at least two towing points of two switch rails; one end of the first pull rod is configured to be connected to switching equipment; supporting seats include a first supporting seat and a second supporting seat; T-shaped connecting rods are hinged to the other end of the first pull rod; the Tshaped connecting rods are hinged to the supporting seats; long connecting rods include a first long connecting rod and a second long connecting rod; one ends of the long connecting rods are respectively hinged to a first T-shaped connecting rod; and the other ends of the long connecting rod is hinged to a second T-shaped connecting rod. In the embodiments, the T-shaped connecting rods and the long connecting rods form a parallelogram mechanical structure capable of transferring a force

steadily, so that the force is uniform, and a forcesaving structure is formed. The accuracy of linear displacement outputs and actual travel values of a switch rail pulled by the pull rods at the various towing points is satisfied. One-machine, multi-point drive is achieved; the operation is smooth; the number of switching equipment of the switch is reduced; and the costs of electrical maintenance and repair are reduced.



#### 21: 2024/01793. 22: 2024/03/01. 43: 2024/09/04 51: G01M

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY, North China Engineering Investigation Institute Co., Ltd

72: ZHANG Qiang, HAN Guilei, YUAN Shengchao, YE Sizhe, YIN Qian

33: CN 31: 2023104415188 32: 2023-04-23 54: DEVICE AND METHOD FOR DETECTING LEAKAGE POINT OF VERTICALLY LAID HIGH-RESISTANCE IMPERMEABLE MEMBRANE 00: -

The invention discloses a device and a method for detecting leakage point of vertically laid highresistance impermeable membrane, which comprise a storage battery, a direct current meter, an electrode conversion box, an electrode, a communication cable and an impermeable membrane; the storage battery is connected with the direct current meter, two measuring lines are respectively arranged on both sides of the impermeable membrane, the electrodes are symmetrically arranged at fixed intervals along the measuring lines, and the electrodes on both sides are alternately connected through the communication cable, and is connected to the electrode conversion box and the direct current meter, so that the apparent resistivity profile of the impermeable membrane is obtained by measuring the potential difference, current intensity and electrode interval between the preset combined

electrodes, and the position and range of the leakage point of the impermeable membrane are determined. According to the invention, a large amount of data is obtained by testing, and all the data are located at the profile of the center line of the impermeable membrane to be tested, so that the apparent resistivity at the leakage point of the impermeable membrane is obviously reduced, the influence of strong conductivity of the stratum on the mapping of the apparent resistivity of the membrane is avoided, and the detection sensitivity and the detection accuracy are effectively improved.



## 21: 2024/01794. 22: 2024/03/01. 43: 2024/09/04 51: C04B

71: Henan University of Urban Construction 72: ZHU, Hanyu, YUAN, Yanzhao, SUN, Yankun, CHEN, Ruoxi, ZHAI, Weimeng, YAO, Jiahui, SHEN, Yuzhe, LI, Yuwei, REN, Shengnan, GE, Xiaohan, ZHAI, Juyun

#### 54: FULL-FACE GROUTING-BASED CRD CONSTRUCTION METHOD FOR EXCAVATING TUNNEL UNDERNEATH BRIDGE 00: -

A full-face grouting-based CRD construction method for excavating a tunnel underneath bridge is provided. Before the CRD construction method is applied to the excavation of a tunnel underneath bridge, an excavation section is full-face grouted to reinforce the surrounding rock by the grouting slurry prepared. The prepared grouting slurry is formed by mixing liquid A and liquid B in a volume ratio of 1: 1, wherein liquid A is water glass, and liquid B is prepared by mixing cement, sodium carboxymethyl cellulose, surfactant, and water in a weight-part ratio

of 42: 4.6: 3.2: 50.2. The method effectively combines the full-face advanced grouting with the CRD method, so that the control standard for the surrounding rock deformation is high and it is not easy to cause uneven settlement of the relevant ground.



21: 2024/01797. 22: 2024/03/01. 43: 2024/09/04 51: H04L; G06Q

71: GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD

72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang, YANG, Dingguang

# 54: HEALTH DATA MANAGEMENT METHOD BASED ON EDGE COMPUTING

00: -

The present invention discloses a health data management method and system based on edge computing, and belongs to the technical field of health data management. The method includes: acquiring health data from a user end of edge computing in real time; determining a data type of the health data; when the data type of the health data is a first data type, storing the health data in a local memory; and when the data type of the health data is a second data type, segmenting the acquired health data in real time to form a real-time health data segment, and encrypting and sending the realtime health data segment to a cloud platform. Through filtering of edge computing equipment, the present invention can reduce the pressure to the cloud platform caused by a large amount of data transmission and storage, so that the cloud platform can be better used for processing of key data.



21: 2024/01798. 22: 2024/03/01. 43: 2024/09/04 51: H04L; G16H 71: GUANGZHOU KEFU MEDICAL TECHNOLOGY

CO., LTD

72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang, YANG, Dingguang

#### 54: METHOD FOR MANAGING HEALTH BASED ON PASSIVE INTERNET OF THINGS 00: -

The present invention discloses a method for managing health based on passive Internet of Things, which relates to the technical field of health management and comprises the following steps: acquiring physiological data and health-related information of a user collected by an intelligent device by using passive Internet of Things; judging a physical condition of the user based on the physiological data and the health-related information of the user, and generating health management information; and setting a physical examination cycle and a daily care item of the user and reminding the user based on the health management information. The present invention can apply the passive Internet of Things to the health management process, ensure the reliability of data transmission, reduce the cost of health management, enable a user to monitor a health condition in real time, and judge whether to adjust daily care or seek medical treatment in time by combining the daily physical condition.

Acquiring physiological data and health-related information of a user collected by an intelligent device by using passive Internet of Things

Judging a physical condition of the user based on the physiological data and the health-related information of the user, and generating health management information

Setting a physical examination cycle and a daily care item of the user and reminding the user based on the health management information

21: 2024/01801. 22: 2024/03/01. 43: 2024/09/04 51: D21F

71: Anhui Tianxiang high-tech Special Packing Material Group Co., Ltd.

72: LIU Hanqiao, YU Tianxiang, YU Liugen, LIU Shaobin

33: CN 31: 202210983926.1 32: 2022-08-17 54: ENVIRONMENTAL-FRIENDLY CIGARETTE TIPPING PAPER AND PREPARATION SYSTEM THEREOF

00: -

The invention relates to the technical field of cigarette products, and in particular to an environmental-friendly cigarette tipping paper and a preparation system thereof. The preparation system includes a base paper preparation unit, a printing unit, a hot stamping unit, a slitting unit and a packaging processing unit, wherein the base paper preparation unit includes a tipping paper machine, and the tipping paper machine includes a machine body, a headbox, a wire section, a press section, a drying section, a soft calender and a paper reel machine. In this invention, clean air is injected into the cleaning rod by setting an air supply component, and the air flows out through the cleaning hole to directly impact the slurry inside the rectifier roll, so that the slurry inside the rectifier roll flows more guickly, and flocs inside the rectifier roll are conveniently broken and dispersed under the impact of airflow slurry flow; in addition, the slurry exchange between the inner and outer sides of the rectifier roll

is accelerated, the accumulation of slurry fibers in the rectifier roll is reduced, the slurry quality is ensured, and the rejection rate is reduced.



21: 2024/01819. 22: 2024/03/01. 43: 2024/09/04 51: G06K

71: ZHEJIANG NORMAL UNIVERSITY, DONGGUAN UNIVERSITY OF TECHNOLOGY
72: ZHU, Xinzhong, XU, Huiying, LIU, Xinwang, LI, Miaomiao, ZHANG, Yi, YIN, Jianping
33: CN 31: 202110940783.1 32: 2021-08-17
54: MULTI-VIEW TEXT CLUSTERING METHOD AND SYSTEM BASED ON ONE-STEP LATE FUSION

## 00: -

Disclosed in the present application are a multi-view text clustering method and system based on onestep late fusion. The multi-view text clustering method based on one-step late fusion, which is involved in the present application, comprises the steps of: S1, acquiring text data, and processing the acquired text data to obtain a consensus clustering matrix; S2, decomposing the obtained consensus clustering matrix to obtain a decomposed consensus clustering matrix; S3, on the basis of the decomposed consensus clustering matrix, constructing a target function of a consensus matrix and a clustering label; S4, by means of an alternating optimization method, solving the constructed target function to obtain an optimal matrix; and S5, clustering the obtained optimal matrix to realize clustering.



21: 2024/01820. 22: 2024/03/01. 43: 2024/09/04 51: G01K

71: XI'AN UNIVERSITY OF TECHNOLOGY 72: WANG, Qian, QIN, Sichen, LIU, Rui, WANG, Tao, ZHANG, Jiawei, ZHA, Junwei, LIAN, Huan 33: CN 31: 202111047779.9 32: 2021-09-08 54: METHOD AND APPARATUS FOR ULTRASONIC MEASUREMENT OF TEMPERATURE FIELD INSIDE CABLE 00: -

The present disclosure relates to a method and an apparatus for ultrasonic measurement of a temperature field inside a cable. The method includes: mounting an ultrasonic transducer on a surface of a cable to be measured; transmitting, by the ultrasonic transducer, ultrasonic waves to the cable to be measured, where the ultrasonic waves propagate and are reflected in the cable to be measured, and reflected echoes are received by the ultrasonic transducer; transmitting a received echo signal to a signal processing circuit for processing; constructing a structural model according to an internal structure of the cable to be measured, calculating a medium sound velocity of the ultrasonic waves in a preset area of the cable to be measured according to a transit time, and then calculating temperatures of the preset area according to the medium sound velocity; and performing an interpolation calculation on missing temperatures according to the temperatures of the preset area to obtain a temperature field of a measured area inside the cable to be measured. According to the present disclosure, an ultrasonic pulse echo measurement method is used to obtain a relatively complete continuous temperature field of a cross section of the cable to be measured. The measurement

method is simple, short in time, and low in cost, and provides a reliable basis for operation state evaluation of the cable.



#### 21: 2024/01825. 22: 2024/03/04. 43: 2024/09/05 51: C12Q

71: Shihezi University

72: Hui Zhang, Zhen Wang, Zhihua Sun, Jia Guo, Wei Zhang, Chao Shi, Xingmei Deng, Liangbo Liu, Xia Zhou, Ying Ding, Mingqing Wei, Jing Zhao, Baixue He, Tingting Lyu

## 33: CN 31: 202410117116.7 32: 2024-01-26 54: A LAMP PRIMER SET FOR SALMONELLA AND A METHOD FOR DETECTING SALMONELLA IN FRESH MILK

00: -

The invention relates to the field of milk biotechnology detection, in particular to a LAMP primer set for salmonella and a method for detecting salmonella in fresh milk. Salmonella in fresh milk was detected by LAMP technology, and the salmonella genes were specifically amplified by LAMP primer group. The amplification results were observed by chromogenic reaction or gel electrophoresis image to achieve the detection of salmonella in fresh milk. The detection method provided by the invention is a novel detection technology for salmonella with rapid visualization, high sensitivity and good specificity, and can efficiently detect salmonella in fresh milk without increasing bacterial culture, and can be applied to epidemic prevention in dairy farms and improve the food safety of milk.



#### 21: 2024/01826. 22: 2024/03/04. 43: 2024/09/05 51: G01N

71: Guangxi Zhongtie Nanheng Expressway Co., Ltd.

72: Wanbo ZHONG, Anbin SHEN, Xing ZHENG, Aimin FAN, Yao WANG, Yunya PING, Shifeng ZHU, Pan RAN

# 33: CN 31: 2024200629597 32: 2024-01-10 54: A DEVICE FOR REAL-TIMELY DETECTING THE APPARENT VISCOSITY OF ASPHALT IN DIFFERENT STATES

00: -

The invention relates to a device for real-timely detecting the apparent viscosity of asphalt in different states, which belongs to the field of mechanical technology. It includes vibration system, temperature control monitoring system, sample storage and work system and viscosity test system. The vibration system is connected with the temperature control monitoring system, the temperature control monitoring system is connected with the sample storage and work system, and the sample storage and work system is connected with the viscosity test system. The invention provides a device for real-timely detecting the apparent viscosity of asphalt in different states, which is simple in structure and easy to operate. It can realtimely measure the viscosity of asphalt in different temperature states and the viscosity of asphalt in vibration state.



## 21: 2024/01827. 22: 2024/03/04. 43: 2024/09/05 51: G06F

71: Research Institute of Forest Resource Information Techniques, Chinese Academy of Forestry

# 72: TAN, Bingxiang, PANG, Lifeng, HE, Chenrui, LI, Xiaoyao

#### 54: SYSTEM FOR ESTIMATING FOREST CARBON STORAGE ON BASIS OF OPTIMAL FEATURE VALUE 00: -

Disclosed is a system for estimating forest carbon storage on the basis of an optimal feature value, which relates to the technical field of forest carbon storage estimation. The system firstly extracts feature factors of a sample area and determines carbon storage of the sample area by taking remote sensing image data, digital elevation data and second-class resource data of the sample area as data sources, secondly selects feature variables from the feature factors through three feature selection methods of stepwise regression analysis, random forest-recursive feature elimination and Boruta algorithm, then carries out eXtreme gradient boosting (XGBoost) modeling according to a feature variable set and a corresponding carbon storage and determines an XGBoost carbon storage model based on the optimal feature value, and finally estimates carbon storage in a target area by using the XGBoost carbon storage model. Estimation accuracy of carbon storage is improved.



- 21: 2024/01828. 22: 2024/03/04. 43: 2024/09/05 51: H05B
- 71: Zhuzhou Torch Industrial Furnace Co., Ltd. 72: DENG Feifei;, LIU Enqing, TANG Wenyuan, SUN Yangchun, LI Yong
- 33: CN 31: 2023117463936 32: 2023-12-19 54: LARGE INDUCTION ELECTRIC FURNACE

## 00: -

The invention discloses a large induction electric furnace, which includes: a frame structure, and a driving assembly disposed on an upper part of the frame structure, where a furnace body structure is provided on an opposite surface of the driving assembly, and the frame structure and the driving assembly are respectively configured to drive both ends of the furnace body structure to perform staggered slight up-and-down deflection and slight front-to-back flipping; and a detachable induction body assembly that is tilted and disposed at a lower part of the furnace body structure. Through the arrangement of the frame structure and the driving assembly, the staggered up-and-down deflection and front-to-back flipping process is implemented at both ends of the furnace body structure. In this way, on the one hand, the smelting process of stacked zinc blocks is accelerated, the furnace body structure is slightly flipped, and the inner wall of the furnace body structure can be collided to clean the slagging on the inner wall of the furnace structure; on the other hand, the furnace structure can be flipped forward and backward, and in combination with the morphological characteristics of the furnace body structure, the furnace body structure equipped with stacked zinc melt is implemented. And the process of quickly replacing the induction body assembly under electrified heat preservation, thereby greatly improving the power efficiency.



21: 2024/01829. 22: 2024/03/04. 43: 2024/09/05 51: B32B; B60L 71: CHINA RAILWAY NO. 3 ENGINEERING GROUP CO., LTD., CHINA RAILWAY NO. 3

#### ENGINEERING GROUP CO., LTD. THE TRANSPORTATION ENGINEERING BRANCH COMPANY

72: SHEN, Yanlong, WANG, Yuan, WANG, Hongqiang, ZHANG, Peiqi, ZHAO, Zhilei, FENG, Ye, WANG, Xiaosong, ZONG, Hanqing, ZHANG, Jinzhong, XUE, Fu, MAO, Mingjian, WANG, Pengpeng, ZHU, Xiaodong, GAO, Yunfei, DONG, Hao, ZHANG, Gang, GUAN, Long, WANG, Fuliang, CUI, Longlong

## 54: INTELLIGENT TEMPERATURE CONTROL ADHESIVE SOLIDIFYING SYSTEM FOR FRONT WINDSHIELD GLASS OF RAILWAY LOCOMOTIVE AND OPERATING METHOD THEREFOR

#### 00: -

The present invention relates to the technical field of intelligent devices for railway locomotives, and discloses an intelligent temperature control adhesive solidifying system for front windshield glass of a railway locomotive and an operating method thereof. The system includes a movable lifting platform, a telescopic bracket and an intelligent temperature and humidity control device. A bottom of the telescopic bracket is connected to the movable lifting platform and a lateral portion of the telescopic bracket is connected to the railway locomotive for supporting a sealing film, so as to form a closed space between the movable lifting platform and a head of the railway locomotive. The intelligent temperature and humidity control device is fixedly arranged on the movable lifting platform and includes a heater, an air humidifier, an axial flow fan, a temperature sensor, a humidity sensor and a central control display module. The central control display module is configured to control working states of the heater, the air humidifier and the axial flow fan according to real-time measured values of a temperature and humidity transmitted by the temperature sensor and the humidity sensor, so that the temperature and humidity of the closed space are constant. The present invention can improve an adhesive solidifying efficiency and an adhesive solidifying effect of the front windshield glass of the locomotive.



21: 2024/01834. 22: 2024/03/04. 43: 2024/09/05 51: G09B

71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

72: LI. Yiniuan

#### 54: WORD MEMORY BOARD FOR ENGLISH **TEACHING WITH SHIELDING STRUCTURE** 00: -

A word memory board for English teaching with a shielding structure is disclosed. An end of a top end of a mounting case is fixedly connected to a plurality of pneumatic telescopic rods, and output ends of the pneumatic telescopic rods extend into the mounting case and are fixedly connected to a display board. A white board is fixedly connected to a middle position of an end of the mounting case via a bolt. The display board is pushed down by the output ends of the pneumatic telescopic rods, and the display board will drive a connecting rod to move down while moving down, whereby the connecting rod pushes a fixed rod and a piston into an air cylinder, air inside the air cylinder is transported into an air bag via a hose, and the air bag is inflated, so as to lift up a shielding board.



21: 2024/01842. 22: 2024/03/04. 43: 2024/09/05 51: B01J: C02F 71: INSTRACTION GMBH 72: LUNGFIEL, Kristian, MEYER, Christian, WELTER. Martin 33: ZA 31: 102021120424.0 32: 2021-08-05 54: REMOVAL OF VIRUSES FROM WATER BY FILTRATION 00: -

The present invention relates to a method for producing antiviral particles and to the particles themselves, which can be produced by the method according to the invention. The particles according to the invention are used to remove viruses from water, but also to remove biological impurities from water and to bind metal-containing ions from solutions. The present invention also relates to a filter cartridge containing particles according to the invention.



/600-1.5-PVA-5-EGDGE-20-EGDGE /PVA200/100-40-ECH-DIAmEt-20-40-ECH-DIAmEt-20-40-ECH-EtSr-200

## 21: 2024/01851. 22: 2024/03/05. 43: 2024/09/05 51: G01N

71: The Fourth Geological Exploration Institute of Qinghai Province (Key Laboratory of Shale Gas Resources of Qinghai Province) 72: Chao Haide, Gong Zhiyuan, Song Weigang, Chen Jianzhou, Wang Fan, Xu Yongfeng, Li Jiqing, Xie Jing, Cai Tingjun, Li Qing, Wang Qiwei 33: CN 31: 2024101823071 32: 2024-02-19 54: A WATER-SOLUBLE HELIUM RESOURCE SAMPLING DEVICE AND SAMPLING METHOD 00: -

The present invention discloses a water-soluble helium resource sampling device and sampling method, which relates to the field of unconventional oil and gas exploration and development technology. The sampling device, through the coordinated arrangement of the sampling bottle body, upper water pipe, upper valve, upper handle, lower water pipe, lower valve, and lower handle, is capable of isolating air, thereby preventing air from entering the sampling bottle body through the upper or lower water pipes. The operation is simple, enabling quick and convenient collection of water samples, reducing time costs, and thereby ensuring the progress of sampling work and the quality of sampling. Based on this sampling device, efficient helium excavation can be achieved at low investment cost and cycle.

21: 2024/01852. 22: 2024/03/05. 43: 2024/09/05 51: A23F

71: Tea Research Institute of Chinese Academy of Agricultural Sciences

72: Junfeng YIN, Weiwei WANG, Heyuan JIANG, Gensheng CHEN

33: CN 31: 2024101099588 32: 2024-01-26 54: PROCESSING METHOD OF YELLOW TEA 00: -

The invention discloses a processing method of yellow tea, in particular to a processing method of vellow tea, which comprises the following steps: 1) picking fresh leaves: picking fresh tea leaves with certain tenderness; 2) spreading: spreading the fresh leaves in a spreading or spreading machine; 3) Deactivating: the tea leaves after spreading are jointly de-enzymed by a roller de-enzyming machine and a far infrared de-enzyming machine; 4) rolling: rolling the tea leaves with a rolling machine for 20-50min; 5) yellowing: adopt the interval mode of aerobic yellowing and anaerobic yellowing for yellowing; According to the application, the aroma of yellow tea can be improved by spreading green by red light irradiation, and the aroma quality of yellow tea can be effectively improved by the combined innovative deactivating method of roller and far infrared; the yellowing is promoted by the combination of vacuum yellowing and temperature control, humidity control, oxygen control and yellowing, and various innovative processing technologies are combined, so that yellow tea with

strong aroma, stable fragrance type and good taste quality can be produced.

21: 2024/01855. 22: 2024/03/05. 43: 2024/09/05 51: C05F

71: HEXI UNIVERSITY, GANSU KAIYUAN BIOTECHNOLOGY DEVELOPMENT CENTER CO., LTD, GOLDEN SUNFLOWER SEED INDUSTRY CO., LTD

72: LUO, Guanghong, YANG, Shenghui, LIU, Haiyan, ZHAN, Wen, CHEN, Ye, WANG, Danxia 54: PREPARATION METHOD AND APPLICATION OF MICROALGAE-CONTAINING BIOFERTILIZER 00: -

The present invention provides a preparation method and an application of a microalgaecontaining biofertilizer, wherein the preparation method comprises the following steps: mixing 25-30 parts by weight of zinc sulfate, 6-8 parts by weight of boric acid and 3-5 parts by weight of ammonium molybdate to obtain a mixture A; mixing 15-20 parts by weight of agricultural amino acid raw powder, 8-10 parts by weight of biological agent and 5-7 parts by weight of citric acid to obtain a mixture B; and mixing the mixture A and the mixture B with 40-60 parts by weight of spirulina residues to obtain a microalgae-containing biofertilizer; wherein the biological agent consists of trichoderma citrinoviride, streptomyces nigrifaciens and a solid culture medium, and a weight part ratio of the trichoderma citrinoviride to the streptomyces nigrifaciens to the solid culture medium is 2-3:3-5:50-60. The microalgae-containing biofertilizer prepared by the present invention can significantly improve the resistance and photosynthetic capacity of the corn to stress, reduce the application amount of phosphate fertilizer and nitrogen fertilizer, reduce the reduction range of soil fertility and improve the yield of the corn.

21: 2024/01856. 22: 2024/03/05. 43: 2024/09/05 51: G01J; G02F 71: ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY 72: MA, Xiao 54: INTEGRATED RAMAN SPECTROMETER CHIP BASED ON OPTICAL WAVEGUIDE 00: -An integrated Raman spectrometer chip based on

An integrated Raman spectrometer chip based on an optical waveguide is disclosed by the present

disclosure and relates to the technical field of Raman spectrum detection, which adopts a cascaded array waveguide grating to realize the light splitting function. After the first-stage array waveguide grating finishes first-stage light splitting, N output lights of the first-stage array waveguide grating are configured as input light waveguides of the second-stage N array waveguide gratings according to specific chemical substance detection requirements, the second-stage N array waveguide gratings carry out secondary light splitting, and higher wavelength resolution can be realized nearby N characteristic peaks under the condition of higher sensitivity. using a processing mode of a quantum communication mechanism, and the front-end all-inone machine integrates various detection devices and can be flexibly arranged in various places such as communities, companies, and homes. An intelligent user authentication and device management method based on quantum communication and two-dimensional code technology achieves complete self-service health detection and health management. The abundant health management application module provides comprehensive and convenient health informatization service.



21: 2024/01857. 22: 2024/03/05. 43: 2024/09/05 51: H04L; G16H 71: GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD

72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang

# 54: HEALTH MANAGEMENT SYSTEM BASED ON QUANTUM COMMUNICATION

00: -

8

The present invention discloses a health management system based on quantum communication and relates to the technical field of health management. The health management system comprises: a health detection module, a user side, a background server, a communication module and a data processing module; wherein the health detection module, the user side and the data processing module are separately connected to the background server through the communication module. The present invention can ensure the safety in the transmission process of the health data by



21: 2024/01858. 22: 2024/03/05. 43: 2024/09/05 51: G06N; G16H 71: GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD 72: LIU, Enping, LIU, Sujun, LIN, Yongming, WANG, Shengxiang 54: HEALTH DATA MANAGEMENT SYSTEM BASED ON ARTIFICIAL INTELLIGENCE CHIP

00: -

The present invention discloses a health data management system based on an artificial intelligence chip, and relates to the technical field of health management. The health data management system comprises: a monitoring module, a data collection module, a comparison chip, and a suggestion module, wherein the monitoring module monitors user data in real time; the data collection module stores human health data of a user when the user is healthy; the comparison chip compares the human health data with the user data to obtain a

comparison result and sends the comparison result to the suggestion module; and the suggestion module adjusts a user recipe according to the comparison result. The health data management system based on the artificial intelligence chip disclosed by the present application arranges a diet of the user by monitoring and comparing the health data of the user in real time, so that the user diet is healthier.



21: 2024/01859. 22: 2024/03/05. 43: 2024/09/05 51: B65D

71: Qingdao Central Hospital, University of Health and Rehabilitation Sciences Qingdao Central Hospital

72: Wang Xin, Xu Jie

# 54: STORAGE STERILIZER FOR NURSING

00: -

The present invention provides a storage sterilizer for nursing instruments, including a disinfect box. A spraying box is arranged at one end above the disinfect box, a motor is arranged at one end above the spraying box, a disinfectant storage box is arranged at one end above the disinfect box, a box door is arranged at one end of a side face of the disinfect box, a disinfection drawer is arranged at one end inside the disinfect box, heating pipes are arranged at one end inside the disinfect box, and a control panel is arranged at one end of a side face of the disinfect box; according to the present invention, the disinfection box, the spraying box and the like solve the problem that daily nursing instruments need to be disinfected after use, such as tableware, washbasin, urinal and bedpan for the elderly, which need to be cleaned and disinfected frequently to maintain hygiene and prevent bacterial growth; and especially the tableware, which is in direct contact with food, the cleanliness of the tableware has a

great influence on disinfection effect, and the general storage sterilizer for nursing instruments cannot well remove the bacteria on the surface, so the tableware needs to be thoroughly cleaned.



21: 2024/01860. 22: 2024/03/05. 43: 2024/09/05 51: A01G; C05F

71: SHANDONG INSTITUTE OF POMOLOGY 72: WANG, Sen, WANG, Haibo, HE, Ping, CHANG, Yuansheng, HE, Xiaowen, ZHENG, Wenyan, LI, Linguang

## 54: PREPARATION METHOD OF ORGANIC FERTILIZER FOR IMPROVING SOIL NUTRIENTS AND ENRICHING SOIL MICROORGANISMS 00: -

The present invention relates to a preparation method of an organic fertilizer for improving soil nutrients and enriching soil microorganisms, which belongs to the field of environmental protection. The method comprises the following raw materials in volume parts: 2-3 parts of fruit tree branches, 1 part of animal manure, and 1.0-1.5 kg of nitrogen fertilizer added per 1 m3. The present invention well solves the problem of resource utilization of fruit tree wastes such as pruned branches in the orchard and falling leaves, is an efficient, universal and controllable method for converting degradable organic matter in orchard wastes into stable humus and effectively fertilizing soil, and has great significance for reducing environmental pollution and realizing sustainable agricultural development.

21: 2024/01878. 22: 2024/03/05. 43: 2024/09/05 51: E03B; E03F

## 71: CHEN, Jui-Wen 72: CHEN, Jui-Wen 33: CN 31: 202111058587.8 32: 2021-09-10 54: HIGH-STRENGTH ROAD FOR WATER RESOURCE REGULATION SYSTEM IN RESPONSE TO CLIMATE CHANGE 00: -

A high-strength road for a water resource regulation system in response to climate change. An underground structural space (30) is formed by a structural system formwork (31), which is provided with a hollow unit body (30a), by means of grouting and solidifying concrete grout (302), and the highstrength road is formed by paving a road or a pavement (10) over the underground structural space (30). The hollow unit body (30a) is at least provided with a structural formwork (31) and is formed by means of combining a plurality of side slabs (32). An upper surface of the formwork (31) is provided with a plate (312), which is provided with a through hole (311) and at least one through pipe (33). After the structural system formwork (31) and the side slabs (312) are combined, the concrete grout (302) is grouted and solidifies to form the underground structural space (30) with a high support strength.



21: 2024/01882. 22: 2024/03/06. 43: 2024/09/09 51: A61B

71: The Fourth Medical Center of Chinese People's Liberation Army General Hospital 72: ZHANG, Dong, JIANG, Yu, WU, Taoguang, ZHANG, Gongzi, ZHANG, Shuwei, FAN, Rui, LIU, Pengyun, WANG, Qianxin, ZHANG, Lihai 33: CN 31: 2023118109262 32: 2023-12-26 54: METHOD AND SYSTEM FOR IDENTIFYING AND REGISTERING MARK POINTS OF SURGICAL NAVIGATION ROBOT AND DEVICE 00: - The present invention discloses a method and system for identifying and registering mark points of a surgical navigation robot, and a device. The method includes: obtaining an image when a ruler is placed at a preset position on a human surface as a ruler image; extracting a connected domain of the ruler image through a connected domain extraction algorithm, and screening a plurality of steel ball identification zones; determining barycentric coordinates of each steel ball identification zone as a steel ball identification point; determining an optimal conversion matrix according to a plurality of steel ball identification points; and completing coordinate conversion of an image space and an actual space on the basis of the optimal conversion matrix. The present invention can improve accuracy of identification and registration of the mark points of the surgical navigation robot by determining the optimal conversion matrix.



- 21: 2024/01883. 22: 2024/03/06. 43: 2024/09/09 51: A63H; B29C
- 71: Beijing Fuhua Hongyuan Technology Co., Ltd 72: Huaibiao Zhai, Huaizun Zhai

33: CN 31: 2024101140239 32: 2024-01-27 54: SIMULATED PLUSH ANIMAL TOY AND PREPARATION METHOD THEREOF 00: -

The invention discloses a simulated plush animal toy and a preparation method thereof. The simulated plush animal toy prepared by the invention has a high degree of simulation. Its image is more realistic, especially the snout, paws, eyes and other parts, the appearance is better than the hand feel, and the preparation operation is simple and the cost is low, which can can satisfy the needs of more people.



21: 2024/01884. 22: 2024/03/06. 43: 2024/09/09 51: A01G

71: Zhejiang Institute of Subtropical Crops

72: LI Xiaowen, CHEN Qiuxia, LIU Yu, JIAO Yulian, WANG Jinwang

#### 54: SOIL BALL QUICK WRAPPING ELASTIC NET DEVICE FOR TREE TRANSPLANTING 00: -

The invention discloses a soil ball quick wrapping elastic net device for tree transplanting, which comprises an upper net bag, a frame and a pad, wherein the outer ring of the pad is provided with a frame, and the outer edge of the upper net bag is provided with an outer cloth sleeve. The device for quickly wrapping the soil ball with the elastic net for transplanting big trees has a reasonable structure, and the setting of the bottom pad makes it difficult to be crushed, which is convenient for the net bag to surround the soil ball and is not easy to loosen, and at the same time, it is also convenient to untie it. Through the bracelet, the pull rope and the connector arranged around the outer cloth sleeve, it is helpful for multiple workers to lift the soil ball at the same time, which is simpler and more convenient.



21: 2024/01885. 22: 2024/03/06. 43: 2024/09/09 51: C12N

71: Huazhong Agricultural University 72: Xiyan YANG, Xianlong ZHANG, Linjie XIA, Longfu ZHU, Bing ZHANG

## 33: ČN 31: 2023107660340 32: 2023-06-27 54: STRESS-INDUCIBLE PROMOTER OF COTTON, PREPARATION METHOD AND USES THEREOF

00: -

A stress-inducible promoter of cotton, preparation method and uses thereof are provided. The promoter is shown in SEQ ID NO.1. A vector named pGhERF107::DR26 contained a promoter named pGhERF107::GUS with the sequence shown in SEQ ID NO.1 and GUS is constructed and transferred into cotton to get transgenic plants of cottons. These transgenic plants of cottons could nhance the expression of GUS and DR26 under stress treat.



21: 2024/01886. 22: 2024/03/06. 43: 2024/09/09 51: H01L

71: Henan University of Urban Construction 72: YANG Yilong, LIU Silin, XU Kaidong, DANG Liyun, LI Xinyu, SU Qing, LIU Xiangyun, LI Shanying, BAI Minghua, GENG Zihan, WEI Yifan 54: SELF-CLEANING PHOTOVOLTAIC MODULE BASED ON PHOTOCATALYTIC COATING 00: -

The invention discloses a self-cleaning photovoltaic module based on photocatalytic coating, which belongs to the technical field of photovoltaic equipment, and comprises a mounting plate, a water receiving tank is formed at the top of the mounting plate, and a plurality of mounting columns are uniformly fixed in the water receiving tank, and a photovoltaic panel is fixedly installed on the mounting columns, and the photovoltaic panel comprises a solar panel, an adhesive layer, a glass plate and a photocatalytic nano-film which are sequentially fixed from bottom to top. The bottom surface of that mount plate is provided with a supporting and adjust mechanism. One side of the mounting plate is rotatably connected with a threaded column, the other side of the mounting plate is fixedly connected with a guide column, and one end of the threaded column is fixedly connected with a motor. A cleaning mechanism is arranged between the threaded column and the guide column. One end of the cleaning mechanism is in threaded connection with the threaded column, and the other end is in sliding connection with the guide column. The cleaning mechanism is located above the photocatalytic nano-film, and the bottom of the water receiving tank is communicated with a drainage pipe. The invention greatly reduces the cleaning times, saves the manpower and material resources needed for cleaning, and has better cleaning effect.



21: 2024/01912. 22: 2024/03/07. 43: 2024/09/09 51: A61K 71: WU, Zongze 72: WU, Zongze

# 54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING HYPEROSTOSIS AND RHEUMATIC ARTHRITIS AND APPLICATION

00: -

The present invention discloses a traditional Chinese medicine composition for hyperostosis and rheumatic arthritis, including 46-52 parts of pyritum, 20-38 parts of huechys, 25-37 parts of stems and leaves of hance peppers, 27-38 parts of Fissistigma oldhamii (Hemsl.) Merr., 25-35 parts of Rhizoma seu radix notopterygii, 26-31 parts of Radix clematidis, 21-37 parts of Radix angelicae pubescentis, 30-40 parts of Radix saposhnikoviae, 30-35 parts of myrrh, 28-32 parts of Radix berchemiae lineatae, 30-40 parts of Radix cudraniae, 20-30 parts of Semen strychni, 25-35 parts of Rhizoma chuanxiong, 25-35 g safflowers, 25-35 parts of Herba lamiophlomis, 24-30 parts of Radix aconiti preparata, 17-23 parts Radix aconiti agrestis, 19-34 parts of Radix pulsatillae chinensis, 30-38 parts of Radix angelicae sinensis, 20-35 parts of Caulis tinosporae, and 32-40 parts of wormwoods. These components are mixed, and soaked into wine and white vinegar, and 100-150 parts of needles are put, to obtain medicinal wine.

71: Zhejiang Institute of Subtropical Crops

<sup>21: 2024/01913. 22: 2024/03/07. 43: 2024/09/09</sup> 51: G01B

<sup>72:</sup> LI Xiaowen, CHEN Qiuxia, LIU Yu, JIAO Yulian, WANG Jinwang

#### 54: TREE RADIAL GROWTH MONITORING RING AND MEASURING METHOD THEREOF 00: -

The invention relates to a tree radial growth monitoring ring and a measuring method thereof, which comprises a measuring ring body, wherein the measuring ring body is a strip-shaped stainless steel belt, a base hole and 2-5 adjusting holes which are linearly arranged at intervals of 5cm are arranged at the middle line of the width, and the outer surface of the measuring ring body is a measuring scale; and a tightening device, wherein one end of the tightening device is connected with the base hole, and the other end of the tightening device is connected with the adjusting hole. When in use, the measuring ring body is wound in a tree diameter measuring area, and the tightening device tightens the measuring ring body inward, so that the measuring ring body is eccentric and non-closed-loop. The advantages are: one-time fixed installation, no change in position during continuous measurement, reduced human error, greatly improved measurement accuracy, and improved working efficiency by more than 200 Percent after long-term use.



21: 2024/01914. 22: 2024/03/07. 43: 2024/09/09 51: H01L

71: Henan University of Urban Construction 72: YANG Yilong, LIU Silin, XU Kaidong, DANG Liyun, LI Xinyu, SU Qing, LIU Xiangyun, LI Shanying, BAI Minghua, GENG Zihan, WEI Yifan 54: NOVEL WATER-SPRAYING SELF-CLEANING PHOTOVOLTAIC MODULE WITH HYDROPHOBIC COATING

00: -

The invention provides a novel water-spraying selfcleaning photovoltaic module with hydrophobic coating, which belongs to the technical field of photovoltaic panels, and includes a body, where the

body consists of a photovoltaic panel, a first adhesive layer, a glass layer, a second adhesive layer and a coating in turn, and the coating is provided with a spraving mechanism and a scraping mechanism, and the scraping mechanism is abutted with the coating; the spraying mechanism includes a cleaning liquid pipe fixedly connected to one side of the coating, where the cleaning liquid pipe is provided with a plurality of liquid spraying holes facing the coating, and the other side of the coating is fixedly connected with a collecting liquid tank, and the cleaning liquid pipe is correspondingly arranged with the collecting liquid tank. The invention can clean the dust on the photovoltaic panel, improve the power generation efficiency and reduce the labor cost.



21: 2024/01915. 22: 2024/03/07. 43: 2024/09/09 51: G01B

71: Zhejiang Institute of Subtropical Crops 72: LI Xiaowen, CHEN Qiuxia, LIU Yu, JIAO Yulian, WANG Jinwang

#### 54: DEVICE FOR CONTINUOUSLY AND REMOTELY MONITORING RADIAL GROWTH OF TREES 00: -

The invention discloses a device for continuously and remotely monitoring radial growth of trees, which comprises an elastic piece, a measuring ring ruler, a fixing piece and a data collector, and realizes the functions of regular monitoring, data transmission and remote collection of diameter data. The elastic piece tightly hoops the measuring ring ruler at the measuring position, and the measuring ring ruler is expanded along with the growth of trees; the front of the fixing piece is provided with a monitoring transmitter, which can regularly monitor the data variation of the measuring ring ruler and transmit the variation to the data collector. The device is simple in structure, convenient to install, conforms to the development of the Internet of

Things era, can quickly and conveniently monitor the change of tree diameter in the sample plot, mainly solves the problems of time-consuming, laborconsuming and large data error when measuring tree diameter, and is especially suitable for monitoring scientific research data of inaccessible and inaccessible mountain forests, with remarkable efficiency improvement.



## 21: 2024/01916. 22: 2024/03/07. 43: 2024/09/09 51: H01M

71: Henan University of Urban Construction 72: YANG Yilong, LIU Silin, XU Kaidong, DANG Liyun, LI Xinyu, SU Qing, LIU Xiangyun, LI Shanying, BAI Minghua, GENG Zihan, WEI Yifan 54: PREPARATION METHOD AND APPLICATION OF SPINDLE-SHAPED IRON OXIDE NANO SINGLE CRYSTALS

00: -

The invention relates to the technical field of new energy materials, in particular to a preparation method and application of spindle-shaped iron oxide nano single crystals, which comprises the following steps: mixing an iron salt solution, urea and NaH2PO4 solution to obtain a mixed solution; carrying out hydrothermal reaction on the obtained mixed solution; centrifugally separating the obtained product, and drying to obtain the spindle-shaped iron oxide nano single crystals; the concentration of urea in the mixed solution is 0.1 mol/L-0.5 mol/L. Monodisperse spindle-shaped iron oxide nano single crystals can be prepared in batches by a simple method. The material has a single crystal structure, which is suitable for the transmission of electrons, reduces the dissipation of electrons during transmission, and can be prepared in batches with high yield and stable finished products.



21: 2024/01918. 22: 2024/03/07. 43: 2024/09/09 51: E21B

71: Xi'an University of Technology, Shaanxi Provincial Dongzhuang Water Conservancy Engineering Co.,Ltd.

72: SUN Shuaihui, WU Pengbo, ZHOU Peng, GUO Pengcheng, WU Di, CHEN Meng, SUN Longgang, LI Meng

#### 33: CN 31: 202310219643.4 32: 2023-03-08 54: EXPERIMENTAL DEVICE AND EXPERIMENTAL METHOD FOR HIGH-CONCENTRATION SEDIMENT ROTARY JET ABRASION AND EROSION 00: -

The invention discloses an experimental device for high-concentration sediment rotary jet abrasion and erosion, which comprises a mixing water tank, the outlet end of that mixing water tank is sequentially communicated with the diaphragm pump, the surge tank, the electromagnetic flowmeter and the erosion machine through a pipeline, and the inlet pipeline of the erosion machine is provided with a cooling unit; the inlet end of the erosion machine is connected with the bypass pipeline and then communicates with the outlet pipeline of the erosion machine to the mixing water tank through a common return pipeline; the inlet end of the diaphragm pump, the inlet end of the surge tank and the inlet end of the erosion machine are jointly communicated with a compressed air unit through pipelines; the outlet end of the erosion machine is located between the erosion machine and the return pipeline, and is communicated with the mixing water tank through a purging pipeline; the inlet pipeline of the diaphragm pump is communicated with a flushing unit, and the flushing unit is also communicated with a return pipeline through a pipeline. The invention also disclose an experimental method for high-

concentration sediment rotary jet abrasion and erosion. The experimental device and the experimental method for high-concentration sediment rotary jet abrasion and erosion solve the problem of large experimental error of the existing experimental device.



21: 2024/01919. 22: 2024/03/07. 43: 2024/09/09 51: A01H

71: Research Institute of Agricultural Science, Leshan City

72: Mingchao Xu, Yanhui Wang, Xudong Zou, Zhi Zhang, Xingfan Chen, Hong Lu, Juan Yang 54: METHOD AND DEVICE FOR CONSTRUCTING

# RAPE AUTOMATIC HYBRIDIZATION MICROSYSTEM

00: -

The invention relates to the field of rape

hybridization, in particular to a method and a device for constructing a rape automatic hybridization microsystem. Technical problems: rape is hybridized by greenhouse planting or artificial pollination, which requires high space and costs, and it is difficult to realize large-scale hybridization experiments or hybrid planting, while artificial pollination is cumbersome and requires a lot of labor, resulting in high costs; the technical scheme is as follow: a method and a device for constructing a rape automatic hybridization microsystem comprise the following steps: planting the female parent of a sterile line rape plant and the male parent of a restorer line rape plant; compared with the prior art, the method for hybridizing rape by greenhouse planting or artificial pollination has higher cost, and the method can simply construct an automatic hybridizing microsystem of rape by means of leaving planting and bagging, and has the advantages of simple operation, less site requirements, no need to consume a lot of manpower, and can be applied to large-scale experiments and planting.

Selecting a sterile rape plant as a female parent and a restorer rape plant as a male parent, and planting the sterile rape plant female parent and the restorer rape plant male parent when sowing;

At the flowering stage of rape, the adjacent female parent plants of sterile rape plants and the male parent plants of restorer rape plants are gathering and fixing and bagged by paper bags, so as to construct a rape automatic hybridization microsystem;

After the flowering period of rape is over, the paper bag is removed, and the sterile rape plant female parent is separated from the restorer rape plant male parent, so that the seed produced by the female parent is a new rape hybrid combination.

21: 2024/01923. 22: 2024/03/07. 43: 2024/09/10 51: G01R

71: Anwar Ulla Khan, Md Tabrez, Kanhaiya Kumar, Birendra Kumar, Mosarrat Jahan

72: Anwar Ulla Khan, Md Tabrez, Kanhaiya Kumar, Birendra Kumar, Mosarrat Jahan

54: A SYSTEM FOR EVALUATING A COPLANAR INTERDIGITATED SENSOR CAPACITANCE FOR 1-N-1 MULTILAYERED STRUCTURE 00: -

A System (100) for evaluating a coplanar interdigitated sensor capacitance for 1-N-1 multilayered structure comprises of: a coplanar interdigitated (IDT) sensor (102) having a plurality of fingers with a plurality of patterns, wherein the sensor (102) comprises of: a pair of electrodes (102a) connected to a fixed potential; and a duallayered structure (104) having a first layer (104a) above the sensor (102) as a dielectric layer and a second layer (104b) above the first layer (104a) as a liquid layer; a computing module (106) for computing a total capacitance value of a semi-infinite layer above and below a sensor plane separately, wherein the calculated capacitance value is added to obtain total capacitance of the sensor; and a mapping module (108) for calculating interior geometric capacitance and exterior geometric capacitance by mapping a region of the 1-n-1 coplanar IDT sensor structure onto a parallel plate capacitor structure.



21: 2024/01925. 22: 2024/03/07. 43: 2024/09/09 51: G01N

71: HENAN UNIVERSITY OF URBAN

CONSTRUCTION

72: Wenjie ZHU, Xingtao MA, Yarui WANG, Chaoyong WANG, Wei LI

#### 54: BENDING RESISTANCE DETECTION DEVICE FOR PROCESSING ALLOY MATERIAL 00: -

The present invention discloses a bending resistance detection device for processing an alloy material, and belongs to the technical field of alloy material performance detection. The bending resistance detection device comprises: a bearing bracket, a hydraulic device, a support ring, a motor, a detection platform, a gear, an alloy containing device and a detection chamber device, wherein the hydraulic device is hung on the bearing bracket, the motor and the support ring are both placed on the bearing bracket, the detection platform is mounted at a top end of the support ring, an output end of the motor extends out of the detection platform, the gear is mounted at the output end of the motor, three sliding grooves are circumferentially uniformly arranged on the detection platform, an alloy containing device is slidably connected to each of the sliding grooves, the alloy containing device is in meshed transmission with the gear, an end of the alloy containing device is provided with the detection chamber device, a bottom end of the hydraulic device is provided with three force applying rods, and the force applying rod extends into the detection chamber device. The present invention can simultaneously detect three alloy materials, can synchronously detect the alloy materials at different temperatures and better know the bending resistance of the alloy.



21: 2024/01926. 22: 2024/03/07. 43: 2024/09/09 51: C21C; G01N 71: HENAN UNIVERSITY OF URBAN CONSTRUCTION 72: Wenjie ZHU, Xingtao MA, Chaoyong WANG, Wei LI, Xiuqin YANG 54: ALLOY STEEL MATERIAL HARDNESS DETECTION DEVICE 00: -

The present invention discloses an alloy steel material hardness detection device, and belongs to the technical field of hardness detection. The device comprises: a base, wherein a driving mechanism is arranged in the base, a pair of flexible clamping mechanisms are symmetrically arranged on the driving mechanism, an angle adjusting mechanism is arranged between the two flexible clamping mechanisms, a hardness detection mechanism is fixed on the angle adjusting mechanism, and a sweeping mechanism is further arranged on one side of a top of the base; and the flexible clamping mechanism comprises: a carrier, wherein a plurality of telescopic cavities and clamping cavities which are in one-to-one correspondence are arranged in the carrier, a spring is fixed in the telescopic cavity, a bushing is fixed in the clamping cavity, a telescopic rod is fixed at one end that is of the spring and that approaches the clamping cavity, the other end of the telescopic rod passes through the bushing and extends out of the carrier, a plurality of oil passages are further distributed in the carrier, and the oil passage communicates with the bushing. According to the present invention, the flexible clamping mechanism can achieve a good clamping effect on

to-be-detected materials in any irregular shapes, so that the accuracy of detection data is ensured.

# 21: 2024/01927. 22: 2024/03/07. 43: 2024/09/09 51: C01B; G01N 71: HENAN UNIVERSITY OF URBAN

CONSTRUCTION

72: WANG, Yarui, WANG, Chaoyong, WANG, Kai, LIU, Zhiqing, ZHU, wenjie

## 54: DEVICE AND METHOD FOR ANALYZING LASER-INDUCED BREAKDOWN SPECTROSCOPY

00: -

A device and a method for analyzing laser-induced breakdown spectroscopy are disclosed by the present disclosure, which relate to the field of Laserinduced Breakdown Spectroscopy technology. The device includes a pulse laser, a frequency doubling crystal, a Glan-Taylor polarizing prism, a micro objective, a sample and moving platform, an OPO laser, an optical radiation collecting system, a monochromator, an oscilloscope, a computer, a pulse signal generator, a beam splitter, a first reflector, a second reflector, a first plano-convex lens and a second plano-convex lens.



21: 2024/01928. 22: 2024/03/07. 43: 2024/09/09 51: A62D; E21F

71: XI'AN UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Jingyu ZHAO, Xiaocheng YANG, Jiaming CHANG, Gai HANG, Jiajia SONG, Chen WANG, Zhaolong CHI, Jun DENG, Yanni ZHANG, Chimin SHU

#### 33: CN 31: 2023114656000 32: 2023-11-07 54: A MESOSCOPIC SCALE DETERMINATION METHOD AND EXPERIMENTAL DEVICE FOR VISUALISING SPONTANEOUS COMBUSTION OF THE LOOSE COAL BODY 00: -

The present invention discloses a mesoscopic scale determination method for visualising the spontaneous combustion of the loose coal body and an experimental device thereof, by obtaining an image of the spontaneous combustion process of a coal body and preprocessing it, intercepting a single loose coal body cluster in the preprocessed image, segmenting the single loose coal body cluster to obtain a number of regions, merging the obtained regions according to the rank, and ultimately calculating the fractal dimensions of the loose coal body and determining the loose coal body at a mesoscopic scale based on the fractal dimensions of the loose coal body and determining a characterising body element scale of the loose coal body at a mesoscopic scale based on the fractal dimension of the loose coal body. The present invention renders a mesoscopic scale determination method for visualising the spontaneous combustion of theloose coal body and an experimental device thereof, which solves the problem of difficult to study the study of the spontaneous combustion process of coal under mesoscopic scale in the existing technology, and to
realises the analysis of the spontaneous combustion process of theloose coal body under mesoscopic scale, and is conducive to the exploration of the spontaneous combustion characteristics of theloose coal body and the mesoscopic mechanism.



21: 2024/01961. 22: 2024/03/08. 43: 2024/09/10 51: G01N

71: COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.

72: ZHANG, Kai, ZOU, Gaoming, SUN, Zhe, LI, Chao, LI, Hongxi

33: CN 31: 202410064049.7 32: 2024-01-16 54: A MULTI-LEVEL RESILIENT GATEWAY COMMAND AGENT MODEL AND DATA ACQUISITION SYSTEM FOR INDUSTRIAL INTERNET

#### 00: -

The embodiment of the present invention disclosed a multi-level elastic gateway instruction agent model and a data collection system for industrial Internet; the multi-level elastic gateway instruction agent model includes an interface layer, a protocol layer, an application layer and a device layer arranged in sequence, wherein: the interface layer It is configured as an instruction input interface, used to input instructions and process received instructions; the protocol layer is configured to execute instructions processed by the interface layer, parse the protocol, and set the protocol type for the application layer; the application layer is configured to execute input instructions and process data. Collection; the device layer is configured as a data collection point for connecting and accessing industrial equipment; the multi-level elastic gateway command agent model integrates multiple protocols into one platform. The command agent model can arbitrarily expand industrial protocols, flexibly deploy applications, and configure on-demand The command realizes the elastic expansion of the gateway device. As an integrated interface for visual operation control, it has good application prospects in the field of industrial Internet data collection.



## 21: 2024/01962. 22: 2024/03/08. 43: 2024/09/10 51: A61P

71: COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.

72: ZHANG, Kai, LEI, Zhongsuo, CHEN, Zejin 33: CN 31: 202410014406.9 32: 2024-01-04 54: METHOD, DEVICE AND STORAGE MEDIUM FOR BULK CARRIER TIME CHARTER LEVELS BASED ON CONFIDENCE INDEX FORECASTING 00: -

The embodiment of the present invention disclosed a method for bulk carrier time charter levels based on confidence index forecasting, characterized in that comprised the following steps:obtaining a benchmark value for an ocean route and a benchmark value for a coastal route; obtaining an international index for bulk cargoes and forward shipping market data; obtaining an expert's forecast value for the ocean route and an expert's forecast value for the coastal route, determining the expert's forecast level coefficient of the period charter for the ocean route and the expert's forecast freight rate coefficient for the coastal route; calculating a time charter level coefficient of the ocean route by using the expert's forecast The ocean line charter level coefficient, ocean market coefficient and actual business transaction information of the ocean line are used to calculate the ocean line charter level coefficient; the coastal line tariff coefficient is calculated by using the expert's forecast of the

coastal line tariff coefficient and the information of the actual business transaction of the coastal line; the commodity correction index is obtained and determined; the ocean line confidence index is calculated by using the ocean line charter level coefficient and the commodity correction index, and the coastal line confidence index is calculated by using the expert's forecast of the coastal line tariff coefficient and the information of the actual business transaction of the coastal line. The coastal route freight coefficient and commodity correction index are used to calculate the coastal confidence index, and the total confidence index is further obtained.



21: 2024/01964. 22: 2024/03/08. 43: 2024/09/12 51: B01F

71: Changzhou Maternal and Child Health Hospital 72: Dai Xiuliang

### 33: CN 31: 202410067894X 32: 2024-01-17 54: MIXING DEVICE FOR PREPARATION OF ANTI-UTERINE AGING DRUGS

00: -

Disclosed is a mixing device for preparation of antiuterine aging drugs, including a fixed frame. An inner wall of the fixed frame is fixedly equipped with a mixing tank, a bottom of the mixing tank is fixedly equipped with a discharging outlet, a top of the mixing tank is arranged with a sealing cover, a top of the sealing cover is fixedly equipped with a feeding inlet, the top of the sealing cover is fixedly equipped with a driving motor, the top of the mixing tank is disposed with positioning columns, a bottom of the sealing cover is fixedly equipped with the positioning columns, and an inner wall of the sealing cover is rotatably connected to a rotation rod. According to the present invention, a positioning box, a positioning ring, a vibration motor, a conductive spring and a conductive sheet are arranged, so that when the mixing is finished and the discharging needs to be performed, the vibration force can be conducted to the discharging outlet via the conductive spring and the conductive sheet, thereby accelerating the discharging efficiency, avoiding the problem of insufficient efficiency of downward discharging depending solely on the drug weight and inertia, solving the problem of greatly reducing the working efficiency of staff, and improving the practicability of the device.



21: 2024/01970. 22: 2024/03/08. 43: 2024/09/13 51: E02D

71: The Third Construction Co., Ltd Of China Construction Third EngineeringG Bureau, China Construction Third Engineering Bureau Group Co., Ltd, Ruiteng Basic Engineering Technology (Beijing) Co., Ltd

72: Congyue QI, Lijun YUAN, Aiwen ZI, Wentao GONG, Hongwei ZHOU, Zhihui WANG, Hongjing

YE, Lei FENG, Lu YANG, Jun LE, Peiyong SONG, Yongfeng QI, Qingquan LI, Rong CHEN, Yuehua ZHONG, Huiling YAN, Long YANG, Chongxiao WANG, Ning WU, Pengfei ZHOU 33: CN 31: 2022110162914 32: 2022-08-24 54: NEW-TYPE ASSEMBLED FOUNDATION PIT SUPPORT SUITABLE FOR FINE SAND LAYER 00: -

The present invention provides a new-type assembled foundation pit support suitable for a fine sand layer, including: a protective combined surface layer, herein it includes a pre-reinforced protective layer and a reinforced protective composite layer, the reinforced protective composite layer is laid on the pre-reinforced protective layer, and a bottom surface of the pre-reinforced protective layer forms a contact surface in contact with a slope body; and a fixed assembly, herein it includes a reinforced body, a reinforced bar connecting component, and an end anchoring component, one end of the reinforced body is threaded through the pre-reinforced protective layer and the reinforced protective composite layer and may be inserted into the slope body, the reinforced bar connecting component is arranged on the other end of the reinforced body and in contact with the reinforced protective composite layer, and the end anchoring component is arranged on the other end of the reinforced body and pressed against the reinforced bar connecting component. In the present invention, by the combined use of the protective combined surface layer, the reinforced body, the reinforced bar connecting component, and the end anchoring component, the slope body may be stably connected as a whole, and due to its recyclability and reuse, its overall cost is much lower than that of a shotcrete way, and it is also more beneficial to environmental protection.



21: 2024/01971. 22: 2024/03/08. 43: 2024/09/13 51: E04B

71: The Third Construction Co., Ltd Of China Construction Third EngineeringG Bureau, China Construction Third Engineering Bureau Group Co., Ltd, South China University of Technology 72: Congyue QI, Hongwei ZHOU, Yuming YANG, Yingdiao LUO, Yongfeng QI, Lijun YUAN, Zhihui WANG, Xinjun LIN, Yiyun ZHANG, Guowei XU, Jifeng WANG, Linkai LIAO

#### 33: CN 31: 2022111728619 32: 2022-09-26 54: INCOMBUSTIBLE SOLID WALL FOR EXTERNAL WALL OF ULTRAHIGH-RISE BUILDING AND CONSTRUCTION METHOD 00: -

The present invention discloses an incombustible solid wall for the external wall of an ultrahigh-rise building and a construction method. The incombustible solid wall for the external wall includes a supporting beam, a curtain wall mechanism, a masonry wall, an upper fireproof mechanism and a lower fireproof mechanism; the supporting beam is fixed to the bottom surface of a structural floor slab; the curtain wall mechanism includes a curtain wall body, a curtain wall embedded part and a curtain wall bearing part; the masonry wall is fixed to the upper portion of the structural floor slab; the upper fireproof mechanism is fixed between the upper end of the masonry wall and the curtain wall body; and the lower fireproof mechanism is fixed between the supporting beam and the curtain wall body.



21: 2024/01998. 22: 2024/03/11. 43: 2024/09/12 51: A61B

71: The First Affiliated Hospital of Bengbu Medical University

72: DONG Huaifu, QU Sehua, LIU Peipei, DONG Xiaoyu, LI Baoguang, ZHANG Ying 54: PEDIATRIC NEUROTACTILE DETECTOR 00: -

The invention discloses a pediatric neurotactile detector, which comprises a syringe, wherein a sliding rod is arranged in the syringe, a positioning mechanism detachably connected with the sliding rod is arranged on the syringe, the bottom of the syringe is opened, a first groove is formed on one side of the sliding rod near the opening, a first slider is slidably connected in the first groove, and a first spring is fixedly connected between the first slider and the first groove; the end of the first slider far away from the first spring is fixedly connected with an inspection rod, which is opposite to the opening, and the side wall of the inspection rod is fixedly connected with a pointer; the side wall of the first groove and the side wall of the syringe are respectively provided with a first vertical slot and a second vertical slot, and the pointer penetrates through the first vertical slot and the second vertical slot, and the side wall of the syringe is provided with a scale. According to the invention, by checking the aligned position of the pointer on the scale, the

severity of the tactile disturbance is preliminarily estimated, and the accuracy of the inspection result is improved.



21: 2024/01999. 22: 2024/03/11. 43: 2024/09/12 51: B66C

71: COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.

72: ZHANG, Kai, ZHAO, Zaigang, JIANG, Junjie 33: CN 31: 202410157633.7 32: 2024-02-04 54: METHOD OF AUTOMATED CARGO CONSOLIDATION, ELECTRONIC EQUIPMENT, COMPUTER STORAGE MEDIA 00: -

The embodiment of the present invention disclosed a method of automated cargo consolidation, electronic equipment, computer storage media, the cargo automatic carpooling method compring: S1, obtaining vehicle information and cargo order information; S2, determining the influencing factors of carpooling and the carpooling rules; and S3, determining the result of the cargo automatic carpooling according to the carpooling rules and the influencing factors. The method of automated cargo consolidation calculate the optimal automatic cargo carpooling method according to the vehicle information, the cargo information, and the determined carpooling rules, which effectively improves the vehicle loading efficiency, improves the operational efficiency, and reduces the labour cost.



21: 2024/02000. 22: 2024/03/11. 43: 2024/09/12 51: G06F

71: Hubei Bituo New Material Technology Co., Ltd., Hangzhou Juhuan Chuangyou Technology Development Co., Ltd., Jiangxi Institute of Ecological and Environmental Science Research and Planning, Beijing Capital Air Environmental Science & Technology Co.,Ltd.

72: Ke WANG, Zhenwei DONG, Minghai CHEN, Fengtao WAN, Wei DENG

#### 33: CN 31: 2023102432704 32: 2023-03-14 54: ANALYSIS METHOD OF ENVIRONMENTAL **AIR POLLUTION SOURCES BASED ON FEATURE BIAS** 00: -

This application provides a method for analyzing environmental air pollution sources, which relates to the field of air pollution source analysis technology. This method includes obtaining pollution source composition data within the first analysis cycle, forming the first pollution source composition data, conducting standard analysis processing, and

forming standard analysis data; Obtain standard analysis data, perform first feature deviation analysis processing, and form first feature deviation analysis data; Obtain standard analysis data, perform second feature deviation analysis processing, and form second feature deviation analysis data; Obtain target pollution source component data, combine standard analysis data to perform feature state analysis on the second pollution source component data, and form feature state analysis data; Combine standard analysis data, first feature deviation analysis data, second feature deviation analysis data, and feature state analysis dataset to form a pollution source component feature dataset. It can reasonably analyze pollution sources from a temporal perspective.



#### 21: 2024/02001. 22: 2024/03/11. 43: 2024/09/12 51: A61M

71: Haikou People's Hospital

72: CHEN, Yang, WANG, Chan, HUANG, Denggao, ZHANG, Shufang

#### 33: CN 31: 2023235144811 32: 2023-12-22 **54: INJURY-PREVENTING URINARY CATHETER** 00: -

Disclosed is an injury-preventing urinary catheter, specifically relates to the technical field of medical instruments, including a balloon urinary catheter and a safety member. A drainage cavity of the balloon urinary catheter is arranged with a safety drainage hole, the safety drainage hole and a drainage hole are located on two sides of the balloon, and the safety drainage hole is remote from an insertion end of the drainage cavity compared to the drainage hole. Liquid can flow into the drainage cavity of the balloon urinary catheter through the safety drainage hole. The safety member can be placed in the

drainage cavity of the balloon urinary catheter, closing the drainage hole of the balloon urinary catheter. The present invention can effectively reduce the injury to the urethra of the patient caused by the inflated balloon and alleviate the pain of the patient when the injury-preventing urinary catheter is indwelled.



21: 2024/02003. 22: 2024/03/11. 43: 2024/09/12 51: A01N

71: Dr. DEBADUTTA DAS, Prof. PRAMILA KUMARI MISRA, Dr. UMAKANTA BEHERA, SWETASHREE PATTANAIK, Dr. BARADA PRASANA DASH, Dr. NIVA NAYAK, Dr. TAPAN PANDA 72: Dr. UMAKANTA BEHERA, SWETASHREE PATTANAIK, Dr. BARADA PRASANA DASH, Dr. NIVA NAYAK, Dr. TAPAN PANDA, Dr. DEBADUTTA DAS, Prof. PRAMILA KUMARI MISRA 54: A SYSTEM FOR PREPARING FLY ASH WATER SLURRY (FAWS) USING BIO-ADDITIVE SOLUTION FROM DIOSCOREA HISPIDA 00: -

The present invention relates to a system for preparing fly ash water slurry (FAWS) using bioadditive solution from Dioscorea hispida. This invention introduces an aqueous extract of Dioscorea hispida as a natural viscosity-reducing agent for stabilizing Fly Ash Water Slurry (FAWS). The study demonstrates a substantial viscosity reduction, particularly at an optimal Dioscorea hispida concentration of 0.6 g/mL in the slurry mixture. FAWS, with its enhanced flow properties, emerges as a sustainable and cost-effective solution for managing Fly Ash (FA) in industries. Achieving a maximum FA concentration of 64.6% with viscosity below 1100 mPa.sproves the viability of this approach for pipeline transportation. Notably, the addition of Dioscorea hispida contributes to reduced

head loss and energy consumption during slurry pipeline transportation. The invention signifies potential for broader applications, encouraging further investigations into long-term stability assessments and practical implementation guidelines across diverse industrial contexts.



21: 2024/02008. 22: 2024/03/11. 43: 2024/09/12 51: H05K

71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

72: SHI, Yan

#### 54: APPARATUS AND SYSTEM BASED ON INTERNET OF THINGS FOR LOGISTICS INFORMATION MANAGEMENT 00: -

The present application relates to the field of supply chain management, and discloses an apparatus and system based on Internet of Things for logistics information management. The apparatus includes a bracket, where an upper surface of the bracket is fixedly connected to a conveyor belt, the upper surface of the bracket is fixedly connected to a detection bin, and the conveyor belt is provided inside the detection bin; a lower surface of the detection bin is fixedly connected to a scanner, the scanner is provided above the conveyor belt, an outer wall of the detection bin is fixedly connected to a console, and a lower surface of the console is fixedly connected to a data port; and the system includes an internet interface module.



21: 2024/02029. 22: 2024/03/12. 43: 2024/09/12 51: G09B

71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

#### 72: LI, Yinjuan 54: ENGLISH TEACHING BOARD WITH MULTIDIRECTIONAL OVERTURNING STRUCTURE

00: -

Disclosed is an English teaching board with a multidirectional overturning structure, which relates to the field of teaching boards. The English teaching board with a multidirectional overturning structure includes a supporting seat fixed on a top of a base, where a learning board is mounted on a top of the supporting seat: the English teaching board with the multidirectional overturning structure can drive a fixing frame to rotate by squeezing squeezing balls by squeezing grooves, so as to drive the learning board to transversely overturn, the six groups of squeezing balls are provided, and an overturning angle can be readjusted according to using needs during overturning, such that the English teaching board has more selectivity. A clamping block can also be pulled out of clamping grooves, and then the learning board can be pushed anew to vertically overturn by means of the fixing frame.



21: 2024/02030. 22: 2024/03/12. 43: 2024/09/12 51: H04L 71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

#### 72: WANG, Hui

#### 54: MONITORING AND DIAGNOSIS SYSTEM FOR NETWORK COMMUNICATION SECURITY 00: -

Disclosed in the present invention is a monitoring and diagnosis system for network communication security, which relates to the technical field of monitoring systems. The system includes a monitoring subsystem and a diagnosis subsystem, where the monitoring subsystem includes a target monitoring terminal, a network security monitoring terminal and a network security management terminal, and the diagnosis subsystem includes front-end fault diagnosis apparatuses, a fault diagnosis platform and a mobile phone terminal. The system can master a network security status of a monitored system in real time and reduce a workload of on-site inspection and repair of working personnel, is convenient to maintain, has a high security coefficient and effectively saves a manpower and material resource cost.



21: 2024/02052. 22: 2024/03/13. 43: 2024/09/13 51: C12N

71: Shandong Agricultural University 72: GAO, Xinqi, ZHANG, Xiansheng, BIE, Xiaomin, CHU, Xiaoli, ZHENG, Lecheng, YIN, Tianci 33: CN 31: 2023116612952 32: 2023-12-06 54: APPLICATION OF DOF TRANSCRIPTION FACTOR IN IMPROVEMENT OF DROUGHT TOLERANCE OF TRITICUM AESTIVUM 00: -

The present invention discloses application of a wheat Dof gene in the improvement of drought tolerance of Triticum aestivum, and belongs to the technical field of breeding of drought-tolerant varieties of plants. The present invention has cloned a wheat Dof gene from Triticum aestivum for the first time. The study on the gene has found that overexpression of the gene can improve drought tolerance of Triticum aestivum. Therefore, overexpressing the gene and applying the

overexpressed gene to drought-sensitive backbone germplasm have important economic value and social benefits for improving drought tolerance of Triticum aestivum, and thus improving the yield and quality of Triticum aestivum.



21: 2024/02053. 22: 2024/03/13. 43: 2024/09/13 51: A61J

71: Tangshan workers Hospital

72: CHEN Yan, WU Zheng, ZHANG Hui, TIAN Xiaohua, HAN Jingxin, DU Yangyang 54: MEDICINE FEEDING EQUIPMENT FOR INTENSIVE CARE PATIENTS 00: -

The invention belongs to the technical field of medical equipment, in particular to medicine feeding equipment for intensive care patients, which comprises a base, wherein the top surface of the base is fixedly connected with a conveying structure; the top surface of the conveying structure is provided with a food storage barrel; the feeding end of the conveying structure is communicated with the bottom end of the food storage barrel; the discharge end of the conveying structure is detachably communicated with one end of a conveying pipe; the other end of the conveying pipe is detachably communicated with the feeding end of a fluid drug flowmeter; and the discharge end of the fluid drug flowmeter is fixedly communicated with a bite discharge head. The base is provided with a controller, which is electrically connected with the conveying structure, the elastic pressure-sensitive structure and the fluid drug flowmeter. By using these structures, medicine feeding equipment for intensive care patients is realized, which can make patients control themselves, avoid swallowing too fast, and control and monitor the dosage of drugs.



- 21: 2024/02054. 22: 2024/03/13. 43: 2024/09/13 51: C22F
- 71: Taiyuan University of Science and Technology 72: DU Ting

#### 54: HEAT TREATMENT EQUIPMENT FOR ALUMINUM ALLOY CASTINGS 00: -

The invention discloses heat treatment equipment for aluminum alloy castings, which belongs to the technical field of heat treatment of castings, and comprises a bottom plate, a support frame is slidably connected to the bottom plate, a heating box is fixedly connected to the top of the support frame, the bottom plate is provided with a sinking hole, and a water cooling box is correspondingly arranged below the sinking hole, the water cooling box is buried below the ground, a heat treatment frame is supported on one side of the bottom plate far from the sinking hole, and lifting rings are fixedly connected to four corners of the top surface of the heat treatment frame; an opening is arranged at the bottom of the heating box, an opening and closing plate is slidably arranged on the opening at the bottom of the heating box, and the opening and

closing plate is slidably connected with a sliding assembly; lifting assemblies are arranged at the four corners of the heating box, and the bottom end of the lifting assembly is fixedly connected with a hook which is detachably connected with a lifting ring. According to the invention, the heated aluminum alloy casting can be rapidly quenched into water, and the product performance after heat treatment is effectively improved.



21: 2024/02056. 22: 2024/03/13. 43: 2024/09/13 51: E21C

71: Ordos Haohua Hongqingliang Mining Co., Ltd, Anhui University of Science and Technology 72: LI Chenglong, ZHANG Tao, CHEN Jianchong, MA Yaorong, WANG Bo, ZHANG Honghui 54: SELECTION SYSTEM OF CLASSIFIED TUNNELING SUPPORTING EQUIPMENT FOR ROADWAY DIACHAMBER

00: -

The invention discloses a selection system of classified tunneling supporting equipment for roadway diachamber, which comprises: the data acquisition module for collecting geological formation information and equipment and equipment performance parameters; it is used to carry out risk assessment according to project requirements, and generate the data processing modules for different equipment configuration schemes according to the evaluation results; it is used to analyze the cost benefit of different equipment configuration schemes through feedforward neural network model, and automatically generate the benefit analysis module of the optimal equipment configuration scheme after scoring and optimizing selection. And an implementation monitoring module for executing the selected equipment configuration scheme and

monitoring and adjusting during implementation. The invention can improve the safety and economic benefit of tunneling for roadway diachamber, and further improve the construction efficiency.



#### 21: 2024/02057. 22: 2024/03/13. 43: 2024/09/13 51: A01M

71: Shanghai Academy of Agricultural Sciences, Shanghai Ying Tun Agricultural Technology Company, Limited

72: Quan YUAN, Wenzong ZHOU, Weiwei HUANG, Weiwei LV, Hang YANG, Shiyang NIE

# 54: METHOD FOR DRIVING LARGE BIEDS FROM A RICE-FISH CO-CULTURE SYSTEM

The invention discloses a method for repelling large birds in a rice-fish co-culture system, including the following steps: installing a rain shelter at the paddy field ridge which combined with planting and

breeding, and breeding a large bird under the rain shelter. This method leverages the behavioral characteristics of large birds to communicate with each other, achieving the purpose of bird prevention. It has the advantages of low cost, good bird repellent effect, time-saving, and high economic benefits.

21: 2024/02059. 22: 2024/03/13. 43: 2024/09/13 51: A61F

71: HENAN PROVINCE HOSPITAL OF TCM 72: Wang Can, Cai Wenmin, Xu Qifeng, Yang Mengmeng, Zhang Baoyong 54: FUMIGATION EQUIPMENT BASED ON BREAST TREATMENT

#### 00: -

The present invention relates to the field of breast fumigation technology, in particular to a fumigation device based on breast treatment, comprising a protective cover. The top of the protective cover is provided with a drug groove, and the inner wall of the drug groove is fixedly connected to a heating plate. The bottom of the protective cover is provided with two first arc-shaped grooves, and both of the first arc-shaped grooves are fixedly connected to a fumigation cover. The two ends of the drug groove are fixedly connected to a mist outlet pipe along the longitudinal axis symmetry, The two mist discharge pipes are fixedly connected to the corresponding fumigation hood. The advantage of the present invention is that the surface of the water-cooled tube is adhered to the outer surface of the steam hood. which can cool down the inside of the steam hood to prevent users from being scalded during use. The curved scraper compresses the sponge block, and water droplets enter the interior of the drainage channel through the inlet hole to prevent them from falling on the human skin. Drug gases cannot come into contact with the pores on the skin through the water droplets, which affects the treatment effect.



#### 21: 2024/02060. 22: 2024/03/13. 43: 2024/09/13 51: F25D

71: Suzhou Santuo Cold Chain Technology Co.Ltd 72: Haibing Du, Ruiqiu Du

# 54: ICE STORAGE TANK FORMING DEVICE

The invention discloses an ice storage tank forming device, and relates to the technical field of ice storage tank forming devices. The ice storage tank forming device comprises a first module, a second module and a base for supporting a casting mold, a cooling assembly is arranged on the second module, an adjusting assembly is arranged on the base, and a connecting assembly is arranged on the adjusting assembly; a cooling pipe, a liquid pumping pump, an infusion pipe, a discharge pipe, a corrugated pipe and a connecting pipe; the mounting groove is formed in one side of the second module; the cooling pipe is arranged in the mounting groove; a liquid inlet and a liquid outlet are formed in the cooling pipe; the liquid pumping pump is arranged at the top of the second module; the connecting pipe is arranged at the input end of the liquid pumping pump; and the liquid conveying pipe is arranged at the output end of the liquid pumping pump. According to the ice storage tank forming device, a product can be rapidly cooled after a mold is cast, demolding is facilitated, and the production efficiency is greatly improved.



21: 2024/02061. 22: 2024/03/13. 43: 2024/09/13 51: B01D

71: Baotou Teachers'College of Inner Mongolia University of Science & Technology

72: Xian Feng, Sun Hailian, Zhu Li, Zhang Biao, Han Xiufeng, GAO Yuhan, Men Guangyao

# 54: EXTRACTION DEVICE FOR MICRO PLASTICS FROM FARMLAND SOIL AND EXTRACTION METHOD THEREOF

00: -

The present invention provides an extraction device for micro plastics from the farmland soil and an extraction method thereof, relating to the field of agriculture. The extraction device for micro plastics from the farmland soil includes a fixed plate. A drying box penetrates through and is fixedly connected to a middle of a top of a mounting plate, uniformly distributed stirring rods are fixedly connected to a bottom of an outer diameter of a rotating shaft, a hot air blower is fixedly connected to a rear end of a top of the fixed plate, a mixing tank is fixedly connected to the other ends of two fixed shafts, and a liquid storage tray is arranged at a top of a heater. The soil is dried through the hot air generated by the hot air blower, a first motor drives the rotating shaft and the stirring rods to stir the soil to cause the soil to be dried quickly, and the soil is filtered synchronously, accelerating the filtration of the soil; a second motor drives the fixed shafts and the mixing tank to rotate by a small amplitude to accelerate the washing: and the heater and a fan help the moisture in a solvent evaporate more

quickly to greatly improve an extraction speed of the micro plastics.



21: 2024/02062. 22: 2024/03/13. 43: 2024/09/13 51: G01N

71: LiaoNing Petrochemical University72: Li Shengke, Zhao Xiaolong, Yang Jiang, LiuHailing

#### 54: DĚHYDRATION DETECTION DEVICE FOR HEAVY-OIL VISCOSITY REDUCTION REACTION 00: -

The present invention provides a dehydration detection device for a heavy-oil viscosity reduction reaction, including a detection barrel. A middle of a front side of the detection barrel is fixedly connected to a frequency converter, an inner diameter of the detection barrel is fixedly connected to an aluminium silicate cotton, an inner wall of the aluminium silicate cotton is fixedly connected to a heating separator plate, and a heating cavity is disposed on an inner wall of the heating separator plate. In the present invention, a reaction temperature remains stable and the heating lasts for a long time through the injection of water and an aluminium silicate cotton into the heating cavity. A heating resistance wire and an electric heating plate are controlled by the frequency converter to further ensure the endurance of the temperature, to make the mixed solution to reach the required temperature.



- 21: 2024/02063. 22: 2024/03/13. 43: 2024/09/13 51: G09B
- 71: Yantai Nanshan University
- 72: Li Ting, Leng Xueyan

# 54: EVALUATION SYSTEM FOR FOREIGN TRADE ROUTE LEARNING COMPETITION 00: -

The present invention relates to the technical field of competition evaluation systems, and provides an evaluation system for foreign trade route learning competition, including a microprocessor. An output end of the microprocessor is electrically connected to a second processor, the microprocessor is electrically connected to a storage unit in a bidirectional way, the microprocessor is electrically connected to an analysis unit in a bidirectional way, the microprocessor is electrically connected to a processing unit in a bidirectional way, the microprocessor is electrically connected to a user client in a bidirectional way, and an input end of the microprocessor is electrically connected to an input unit. In summary, according to the evaluation system for foreign trade route learning competition of the present invention, through competitions, dynamic display and multimedia feedback, the students' learning abilities, understanding and memory effects on foreign trade routes are effectively improved; and at the same time, through multi-person participation and personalized learning experience, students' enthusiasm and self-confidence are enhanced.

These beneficial effects effectively promote students' foreign trade learning processes and cultivate professional abilities and interests.



- 21: 2024/02064. 22: 2024/03/13. 43: 2024/09/13 51: H05K
- 71: Shaanxi Vocational College of Finance and Economics
- 72: Song Yaqin

#### 54: DEVICE FOR RADIATING SIMULTANEOUS INTERPRETATION EQUIPMENT 00: -

The present invention discloses a device for radiating simultaneous interpretation equipment, including a simultaneous interpretation equipment ontology and a heat dissipation assembly. The heat dissipation assembly includes a mounting shell, positioning assemblies are mounted on the mounting shell, and the mounting shell is fixed on the simultaneous interpretation equipment ontology via the positioning assemblies; mounting blocks are fixedly mounted on the mounting shell. In the process of using the present invention, the heat conduction plate in the heat dissipation assembly is attached to the back surface of the simultaneous interpretation device, the heat conduction plate is used to transfer heat to the heat dissipation fins, the heat of the simultaneous interpretation device is dissipated via the heat dissipation fins, and then the external air is circulated between the heat dissipation fins via the heat dissipation fan, so as to accelerate the heat dissipation between the heat dissipation fins and improve the service life of the simultaneous interpretation device; and the mounting shell is conveniently disassembled and assembled by positioning the clamping plate in the assembly, so that a person can mount the mounting shell on different simultaneous interpretation devices

and improve the use effect of the heat dissipation assembly in the simultaneous interpretation device.



21: 2024/02065. 22: 2024/03/13. 43: 2024/09/13 51: A61M

71: Zhejiang Jinhua Guangfu Cancer Hospital 72: Fang Yigun

# 54: DEVICE FOR WOUND DEBRIDEMENT

Disclosed is a device for wound debridement, falling within the technical field of wound debridement. A return-shaped support I is included, a right side of the return-shaped support I is disposed with a sliding groove, an interior of the sliding groove is slidably connected to two uniformly distributed sliding brackets, right sides of the sliding brackets are arranged with a fixed bracket, and the fixed bracket is fixedly connected to the return-shaped support I. According to the present invention, firstly, a variety of disinfection water with different functions are arranged, so that the debridement effect is more scientific and thorough. The patient's traumatic upper limb can be supported by designing the fixed bracket and two slidable sliding brackets. Positions of the sliding brackets can be adjusted according to the length of the patient's arm and the difference of

the wound to alleviate the patient's pain. Positions can be changed at will by using the universal bending pipes, so that the debridement process is simpler and more targeted.



21: 2024/02067. 22: 2024/03/13. 43: 2024/09/13 51: A24B; G06Q

71: INSTITUTE OF SOIL SCIENCE, CHINESE ACADEMY OF SCIENCES, HONGTA TOBACCO (GROUP) LIMITED LIABILITY COMPANY 72: SUN, Weixia, TIAN, Yutian, LI, Xiangwei, XIE, Xinqiao, LU, Junping, SHI, Xuezheng 33: CN 31: 2023106800635 32: 2023-06-08 54: METHOD AND SYSTEM FOR IDENTIFYING EXCELLENT SMALL FLUE-CURED TOBACCO PRODUCTION AREAS ACCORDING TO HIGH-PRECISION DIGITAL SOIL MAP 00: -

The present invention discloses a terminal feedback control method for intelligent fine tuning of a slab ballastless track, and particularly relates to the technical field of fine tuning construction of slab ballastless tracks for high-speed rails. The method includes the following steps: S1, placing a second feedback bracket on a track slab, and locating a feedback value point on a centerline of the track slab; S2, placing four first feedback brackets at four corners of the second feedback bracket respectively, and using a base to fix the first feedback brackets on a fine tuning frame; S3, moving a fine tuning truss to a designated position; moving a corresponding sliding support to align the elevation sensor with the central target of the first feedback plane, align the lateral sensor with the central target of the second

feedback plane, and align the vertical sensor with the central target of the third feedback plane; and S4, using a total station and a supporting fine tuning system to complete the fine tuning operation of the track slab. The present invention is capable to reduce working procedures, avoid repetitive alignment and inspection by operators, reduce personnel investment and an error rate of placement, improve efficiency and precision of fine tuning operations, and shorten the time of fine tuning operations.



- 21: 2024/02077. 22: 2024/03/13. 43: 2024/08/21 51: B60G
- 71: Jiangsu University
- 72: PAN Gongyu, WU Ke
- 33: CN 31: 2022116186217 32: 2022-12-15

#### 54: OPTIMIZATION METHOD FOR PID CONTROL PARAMETERS OF AUTOMOBILE SEMI-ACTIVE SUSPENSION

00: -

The invention discloses an optimization method for PID control parameters of an automobile semi-active suspension, which comprises the following steps: constructing a 1/4 automobile semi-active suspension model; Determine the state variables, output variables and state space expression equations of semi-active suspension model; construct PID controller; Improve sparrow algorithm, optimize PID parameters and import them into PID controller; calculate that output of the suspension system of the semi-active controller and calculate the comfort value; Semi-active suspension control system based on improved sparrow algorithm. The invention has that beneficial effect that half of the degrees of freedom of the active suspension are taken as the research object, a comfort function is proposed according to different influence weights, and the optimal PID parameter and the maximum comfort value are searched through continuous iterative comparison of semi-active suspension control algorithms, so that the driving smoothness, the operating stability and the riding comfort are finally ensured; optimizing the optimization ability of sparrow algorithm makes the parameters of PID control more reasonable, which is more conducive to the control of suspension.



21: 2024/02079. 22: 2024/03/13. 43: 2024/09/13 51: A61M 71: RAJGURU, Shivani, BORTHAKUR, Manas Pratim, KARIM, Habib Md Reazaul 72: RAJGURU, Shivani, BORTHAKUR, Manas Pratim, KARIM, Habib Md Reazaul, VERMA, Pradeep Kumar, CHOUDHURY, Kaushik

#### 33: IN 31: 202131041443 32: 2021-09-14 54: A RESPIRATORY SYSTEM 00: -

A respiratory system comprising: a tube-within-tube (12, 14), with an outer cylinder tube (14) and an inner cylinder tube (12), with dedicated channels (12a, 14a) for inspired gases (12a) and expired gases (14a) facilitated by valves (2, 3) configured to resist outflow of expired gases, in that, inspired air flows through said inner cylinder tube (12) and expired air flows through said inner cylinder tube (14); a Continuous Expiratory Airway Resistance Valve (CEAR-Valve, Valve 2), being an expiration valve (Valve 2); another unidirectional valve (Valve 3), being an inspiration valve (3).



21: 2024/02097. 22: 2024/03/13. 43: 2024/09/13 51: B08B; B22D

71: GUANGDONG HUAXING HEAT EXCHANGE EQUIPMENT CO., LTD., SHANTOU HUAXING METALLURGICAL EQUIPMENT CO., LTD., SHANTOU HUAXING (RAOPING) COPPER INDUSTRIAL CO., LTD., RAOPING YUEXING COPPER PROCESSING CO., LTD. 72: WU, Yuan, LIU, Xiongzhang, SHE, Jingpeng, LI,

Lihong, ZHENG, Peide

33: CN 31: 202122319704.3 32: 2021-09-24 54: CHAIN TYPE CASTING MACHINE 00: -

A chain type casting machine is provided, including an endless conveyor belt (1), a pouring device (2), and a conveying driving device (3) capable of driving the endless conveyor belt to rotate. A plurality of molds (101) are uniformly distributed on the endless conveyor belt (1), and pouring forming grooves (1011) are formed on upper surfaces of the molds (101); the endless conveyor belt (1) has a forward section (11) running from front to back and a return section (12) running from back to front, and the forward section (11) of the endless conveyor belt (1) is located above the return section (12) of the endless conveyor belt; a front portion of the forward section (11) is provided with a pouring section (13) gradually inclined upward from front to back; the pouring device (2) is arranged above the pouring section (13); a front side edge of each mold (101) is provided with a lap joint piece (1012); and between two adjacent molds (101) on the pouring section (13), the lap joint piece (1012) of the mold (101) behind is lapped on an upper side of a rear side edge of the mold (101) in front.



21: 2024/02478. 22: 2024/03/27. 43: 2024/08/21 51: G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: XUE,Sheng, YANG,Yang, LIU,Bingjun, WANG,Yuewu, ZHANG,Xun, ZHOU,Tianyao, WANG,Junyu

33: CN 31: CN202211640286.0 32: 2022-12-19 54: DEVICE FOR TESTING EFFICIENCY OF MICROBIAL ENHANCED COAL SEAM GAS DESORPTION THROUGH PHYSICAL SIMULATION

# 00: -

The present disclosure relates to the technical field of coal seam gas detection devices, specifically discloses a device for testing efficiency of microbial enhanced coal seam gas desorption through physical simulation. The device includes a transparent box, wherein the transparent box is horizontally provided with a first chamber and a second chamber. The top of the inner wall of the first chamber is equipped with a first pressure gauge and a first portable methane tester. The top of the inner wall of the second chamber is equipped with a

second pressure gauge and a second portable methane tester. The two ports at the bottom of the intake tee are respectively connected to a first intake pipe and a second intake pipe. A first rotor flowmeter and a first valve are installed in the first intake pipe, and a second rotor flowmeter and a second valve are installed in the second intake pipe. The inlet end of the first exhaust pipe extends into the first chamber, a first one-way valve and a first micro orifice plate flowmeter are installed on the first exhaust pipe, the inlet end of the second exhaust pipe extends into the second chamber, a second one-way valve and a second micro orifice plate flowmeter are installed on the second exhaust pipe, and the input end of the vacuum pump is connected to the output ends of the first exhaust pipe and the second exhaust pipe, so as to achieve accurate testing of residual gas content in coal seams.



21: 2024/02689. 22: 2024/04/08. 43: 2024/08/21 51: C08B

71: HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY, HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY MUDANJIANG INSTITUTE OF FOOD AND BIOTECHNOLOGY 72: LI Liangyu, HE Tianfeng, CAO Rongan, LU Baoxin, LI Chaoyang, WANG Yuankai, LIN Xinmei, BAO Rongpeng

#### 33: CN 31: 2022116964389 32: 2022-12-28 54: METHOD FOR PURIFYING POLYSACCHARIDE OF PORUS MEDICINALIS BY SEQUENTIAL SIMULATED MOBILE CHROMATOGRAPHY

#### 00: -

The invention discloses a method for purifying the polysaccharide of porus medicinalis by sequential simulated mobile chromatography, which relates to the technical field of biological extraction. The method comprises the following steps: (1) the polysaccharide extract is obtained by extracting the medicinal laminaria; (2) purify the polysaccharide extract by using sequential simulated mobile chromatography to obtain the purified solution; (3) the purified solution is concentrated and dried after the purification and impurity removal treatment, so as to obtain the polysaccharide of porus medicinalis; the method for purifying the polysaccharide of porus medicinalis provided by the invention has low process operation cost, and the impurity removal rate and yield of the layer porus polysaccharide are significantly improved, the impurity removal rate reaches 80-90%, the yield reaches 80-90%, and the decolorization rate reaches 60%-80%. The method of the invention has no pollution, low follow-up cost, simplified operation steps, simple equipment, reduced equipment input, increased resin utilization rate, continuous production, and improved production efficiency.



21: 2024/02733. 22: 2024/04/09. 43: 2024/08/21 51: B23P

71: CCCC SECOND HARBOR ENGINEERING COMPANY LTD.

72: ZHANG, Hong, ZHANG, Yongtao, YANG, Xiuli, TIAN, Wei, YOU, Xinpeng, WU, Zhongzheng, CHEN, Bin, CHENG, Maolin, LIU, Ningbo, YU, Changwen, YAN, Shuangqiao, DONG, Qifeng, LIU, Hang, ZHOU, Shu, HUANG, Jian, XU, Liang, XIAO, Hao, XIA, Hao, LIU, Xiucheng, ZHU, Mingqing, HUANG, Jian

33: CN 31: 202211705979.3 32: 2022-12-29 54: AUTOMATIC MOUNTING ROBOT SYSTEM FOR TOWER COLUMN DRAG HOOK BAR 00: -

The present invention provides an automatic mounting robot system for a tower column drag hook bar, which comprises an inner cavity platform and an outer cavity platform, the inner cavity platform and the outer cavity platform are arranged on two sides of a steel bar assembly, an automatic feeding manipulator is arranged on the outer cavity platform, a drag hook bar rack is arranged on one side of the automatic feeding manipulator, a welding manipulator is arranged on the inner cavity platform, a bending and welding device is arranged on the welding manipulator, the automatic feeding manipulator enables a straight end of a hook bar to penetrate through the steel bar assembly, and the welding manipulator bends the straight end of the hook bar and welds the hook bar on the steel bar assembly through the welding device. An automatic drag hook bar grabbing mechanism is arranged at a bottom portion of an outer cavity supporting frame of an assembly jig frame, and according to the present invention, automatic loading, point searching, feeding, mounting, bending, welding and other operations of the drag hook bar are mainly completed through a mechanical device in the jig frame of the steel bar assembly. Manual working is replaced, and automatic mounting of the drag hook bar is realized.



#### 21: 2024/02811. 22: 2024/04/11. 43: 2024/08/21 51: G01N

71: Taiyuan University of Technology 72: Qingli ZHENG, Zihao YANG, Meiwen AN, Zhiqiang LI, Weiyi CHEN, Mingyuan LIU, Yifan ZHAO, Qianning GAO, Zhihao XU, Bangguo LI, Junxia LI

#### 33: CN 31: 2024104172284 32: 2024-04-09 54: A BENDING AND TORSION PROPERTIES TEST DEVICE FOR VASCULAR STENT 00: -

The invention relates to a bending and torsion properties test device for vascular stent, which belongs to the field of vascular stent test technology: it includes a basal lamina, a chute is arranged on the upper end of the basal lamina, a mobile seat is set inside the chute, a fixed seat is set on the basal lamina on the right side of the mobile seat, and the fixed seat and the mobile seat have the same structure and are symmetrically set left and right, the fixed seat and the mobile seat are equipped with a left and right symmetrical action sleeve and a gearrack mechanism that controls the rotation of the action sleeve, meanwhile two pulleys are set on the fixed seat and the mobile seat respectively, the force applied to the pulley makes the fixed seat and the mobile seat rotate, according to the displacement of the cable and the force applied to the cable, the angular displacement and bending moment of the end of the vascular stent can be obtained; the torque of the vascular stent can be calculated by the rotation angle of the sleeve and the force applied to the rack; and it solves the problems of uneven force when the vascular stent is bent and the poor torsion performance of the combined stent.



- 21: 2024/02977. 22: 2024/04/17. 43: 2024/08/21 51: G01N
  - 1. GUIN 1. Moot Anhui
- 71: West Anhui University

72: Wu Yuebo, Bao Huifang, Fang Jie, Wang Ruisong, Zhou Jian

33: CN 31: 202310874303.5 32: 2023-07-17 54: SOIL EXTRACTION DEVICE

00: -

The present invention relates to the technical field of soil extraction, and in particular to a soil extraction device, including an insert, where the insert includes a barrel and an insertion tip at a lower end of the

barrel, a plurality of sampling members are arranged at equal intervals on the barrel, each sampling member includes a sampling groove formed in a side wall of the barrel, an inner upper part of the sampling groove is provided with an extending baffle, the extending baffle is connected to a side wall of the sampling groove by virtue of a first moving member, the first moving member is configured to control the extending baffle to extend out of the sampling groove, a lower part of an inner wall of the sampling groove is provided with a switch member for opening and closing an opening of the sampling groove, an upper part of the switch member is provided with a second moving member, the second moving member is connected to an extending scraper, the second moving member is configured to control the extending scraper to extend out of the sampling groove, a sampling plate located below the extending baffle is provided in the sampling groove, the sampling plate is connected to the side wall of the sampling groove by virtue of a third moving member, and the third moving member is configured to control the sampling plate to extend out of the sampling groove to sample soil. The invention facilitates accurate sampling of soil and reduces sampling errors.



21: 2024/03769. 22: 2024/05/16. 43: 2024/08/21 51: G06F

71: China Tiesiju Civil Engineering Group Co., Ltd. 72: CHEN, Zhiyuan, LI, Yangyang, ZHANG, Boyu, TIAN, Huibin, LU SHEN, CHEN, Jieliang, HONG, Yucheng, SUN AO, LIU GEN, WANG WEI 33: CN 31: 2023112805706 32: 2023-10-07 54: OPTIMIZED IMPROVEMENT METHOD FOR GEOMETRIC LINE SHAPE OF SUBWAY BUSINESS LINE 00: - The present invention discloses an optimized improvement method for a geometric line shape of a subway business line. The optimized improvement method is used for smoothing rail three-dimensional coordinate data from field data acquisition, which improves the precision quality of the data, and obtains a global optimal horizontal curve shape and a global optimal vertical curve shape through local optimization and global iterative optimization. Therefore, a rail geometric line shape adjusting scheme is formulated, and the improvement construction of the geometric line shape of the subway business line is guided. After the geometric line shape of the subway business line is adjusted through the method of the present invention, the subway business line has higher safety and smoothness, uneven abrasion of steel rails and device damages caused by uneven stress of followup rails can be reduced, the stability degree of vehicle running is improved, and the comfort degree of passengers is improved.



21: 2024/04113. 22: 2024/05/27. 43: 2024/07/11 51: A01G 71: HUBEI ZHONGXING FOOD CO., LTD. 72: CUI, Jianjun, SHU, Dazhong 33: WO 31: PCT/CN2023/095085 32: 2023-05-18 33: CN 31: 202310425049.0 32: 2023-04-20 54: BAGGING TOOLING DEVICE AND METHOD FOR SHIITAKE MUSHROOMS 00: -A bagging tooling device for shiitake mushrooms

A bagging tooling device for shiftake mushrooms includes: a workbench (1), a charging machine (2), a fixed semicircular pipe (7), and a rotational semicircular pipe (12), wherein the charging machine (2) is fixedly connected to an inner side of a right end of the work-bench (1); a feeding barrel (3) is fixedly connected to an upper side of a left end of the charging machine (2); a first linear motor (5) is fixedly connected to a bottom end inside a left end of the workbench (1); a movable support (6) is disposed on an upper end of the first linear motor

(5); the fixed semicircular pipe (7) is fixedly connected to an inner side of the movable support(6); a right end of the fixed semicircular pipe (7) is rotationally connected to the rotational semicircular pipe (12); and a motor case (8) is fixedly connected to an upper end of the fixed semicircular pipe (7).



21: 2024/04276. 22: 2024/05/31. 43: 2024/08/21 51: C25B

71:

Qinghai Institute of Salt Lakes, Chinese Academy of Sciences

72: LI Bo, FENG Haitao, DONG Yaping, NIU Zhengrong, LI Wu

33: CN 31: 2022116717678 32: 2022-12-23 54: METHOD FOR DIRECTLY PREPARING TRIVALENT CHROMIUM COMPOUND BY ELECTROCHEMICAL OXIDATION OF FERROCHROME

00: -

The present application discloses a method for directly preparing a trivalent chromium compound by electrochemical oxidation of ferrochrome. The method comprises: putting ferrochrome as an anode, and placing the anode into an electrolyte solution containing a complexing agent together with a cathode, then turning on a power supply for electrolysis reaction so that chromium and iron in ferrochrome are directly converted into free Cr3+ and Fe3+ respectively, allowing one of Cr3+ and Fe3+ to form a stable soluble metal complex together with the complexing agent, and allowing the other of Cr3+ and Fe3+ to form a metal hydroxide solid together with OH- generated by electrolysis reaction, so as to obtain an electrolysis completion slurry. Compared with the prior art, on the one hand, the present application has no hexavalent chromium salt stage, thereby shortening the process flow and avoiding the generation of chromium-containing waste residue; on the other hand, the effective separation of Cr3+ and Fe3+ can be synchronously achieved in the process of electrolysis without addition of other chemical reagents so as to further simplify the process flow, and waste liquids and waste gases are not generated basically. Therefore, the method of the present application has good application prospects in the field of cleaning chemical industry of chromium salts.



- 21: 2024/04467. 22: 2024/06/10. 43: 2024/08/21
- 51: D04H
- 71: Jilin Agricultural University
- 72: Hao Zhang, Jin Gu, Tiantong Lan, Jingsheng Liu 33: CN 31: 202310800257.4 32: 2023-07-03

54: A CURCUMIN-RESVERATROL PROTEIN-BASED NANOFIBER FILM, A PREPARATION METHOD AND APPLICATION THEREOF 00: -

The invention discloses a curcumin-resveratrol protein-based nanofiber film, a preparation method and application thereof, and relates to the field of nanofiber materials. The curcumin-resveratrol protein-based nanofiber film of the invention adopts the mixed spinning of soybean protein isolate and zein, and the two proteins with different solubility are prepared to obtain stable protein-based aggregates in the form of nanofiber film. The nanofiber films SPI+25%ZCR, 25%Z+25%ZCR and 30%Z+30%ZCR made by coaxial electrospinning showed relatively excellent free radical scavenging ability, and SPI+25%ZCR was more excellent, and the antibacterial effect was more significant, and the

release speed was slow and stable during the simulated release in vitro. The excellent performance ensures that the soybean protein isolate fiber film has a broad application prospect in the treatment of trauma.



21: 2024/04650. 22: 2024/06/14. 43: 2024/08/21 51: G01N 71: Xinyu University 72: Yan Yixin 54: CLASSIFICATION PLATE FOR LIBRARY MANAGEMENT

#### 00: -

The present invention provides a classification plate for library management, including a bookshelf body, and the bookshelf body includes a rotating base. In the present invention, when the bookshelf body is used by a worker, firstly, a rotating motor in a support base is started via an external controller to drive a driving gear at a top end to rotate to cause a rotating gear in meshing connection therewith to rotate, with a rotation of the rotating gear, regulating grooves at a top end are driven to rotate to cause connecting shafts in sliding connection therewith to rotate, connecting rods are driven to slide in the support base, and support rods are driven to slide in the support base; a supporting contact bottom surface of the support base is conveniently adjusted by the rotating gear, the regulating grooves, the connecting rods and the support rods, thereby increasing the supporting stability of the bookshelf body; and at the same time, anti-skid foot pads at bottom ends of the support rods can increase the supporting friction force and further increase the supporting stability.



21: 2024/04883. 22: 2024/06/21. 43: 2024/07/04 51: A61K 71: ZEALAND PHARMA A/S 72: LUNDQVIST, JOAKIM 33: EP 31: 22176247.9 32: 2022-05-30 54: LIQUID FORMULATIONS OF AMYLIN ANALOGUES

00: -

The present invention relates to formulations of amylin analogues, and their use, for example, in the treatment of obesity and metabolic disorders such as diabetes. In particular, the present invention relates to stable aqueous liquid formulations of amylin analogues.

#### 21: 2024/04986. 22: 2024/06/25. 43: 2024/07/05 51: C01G; H01M 71: KOREA ZINC CO., LTD., KEMCO 72: CHOI, HEON SIK, CHOI, YUN BIRM, CHOI, CHANG YOUNG, CHOI, JAMES SOUNG 33: KR 31: 10-2023-0004231 32: 2023-01-11 54: METHOD FOR PRODUCING AQUEOUS SOLUTION CONTAINING NICKEL, COBALT AND MANGANESE

# 00: -

The present invention provides a method for producing an aqueous solution containing nickel, cobalt, and manganese, the method comprising: a leaching step including a pressure leaching step for forming a leachate containing nickel, cobalt, manganese, and impurities by pressure leaching a raw material; an impurity removal step for removing the impurities from the leachate; a target material precipitation step for precipitating a mixed hydroxide precipitate containing nickel, cobalt, and manganese

by introducing a neutralizing agent to the leachate that has had the impurities removed; and a dissolution step for dissolving the mixed hydroxide precipitate in an acid, wherein the pressure leaching step includes a first-stage pressure leaching step and a second-stage-pressure leaching step for pressure leaching residue from the first-stage pressure leaching step at a higher acidity than the first-stage pressure leaching step, and the impurity removal step includes a first-stage solvent extraction step, in which a first solvent extractant is added to selectively extract zinc from the impurities, and a second-stage solvent extraction step, in which a second solvent extractant is added to selectively extract magnesium from the impurities.



21: 2024/05068. 22: 2024/06/27. 43: 2024/07/05

51: E02B; E02D

71: CHINA HARBOUR ENGINEERING COMPANY LTD.

72: ZHANG, XIAOQIANG

33: CN 31: 2023113522672 32: 2023-10-19 54: PILE FOUNDATION CONSTRUCTION METHOD

00: -

The present invention discloses a pile foundation construction method, comprising: S1: marking positions where steel sheet piles need to be mounted on two sides of a pile position in a straight line range from a top to bottom of slope body; S2: fixing a winch device on top of slope body, and mounting a first movable platform and connecting to winch device to complete a whole steel trestle; S3: placing a drilling device on first movable platform, driving it to designed position on steel trestle through winch device, and performing pile hole construction in pile position through drilling device; S4: repeating S3 until all pile holes in steel trestle are drilled, and dismounting drilling device; S5: moving a hoisting device to first movable platform, and hoisting pile reinforcement cages into all pile holes; S6: pouring

concrete into pile holes. The invention facilitates pile foundation construction of a mountain side slope.



21: 2024/05364. 22: 2024/07/10. 43: 2024/08/21 51: D01F

71: Anhui Science And Technology University 72: ZHOU, Yongsheng, LIU, You, WEI, Kaiyuan, ZHANG, Erhui, LI, Zirong

33: CN 31: 202310059994.3 32: 2023-01-18 54: POROUS CARBON NANOFIBER MATERIAL HAVING PARALLEL PORE STRUCTURES AND PREPARATION METHOD THEREFOR 00: -

Disclosed is a porous carbon nanofiber material having parallel pore structures. The diameter of the porous carbon nanofiber is 50 nm. The porous carbon nanofiber has through hole structure parallel to the fiber and arranged in an array. The porous carbon nanofiber is prepared by the following steps: dissolving cobaltous acetate, polymethyl methacrylate (PMMA), polyacrylonitrile (PAN), and polystyrene (PS) in N,N-dimethyl formamide (DMF) to form a spinning solution; and performing electrostatic spinning and high temperature carbonization to obtain the porous carbon nanofiber. When the diameter of the porous carbon nanofiber material serving as a cathode material of a K-ion battery, the porous nanofiber material has excellent ionic conductivity and ultra-long battery life. When the current density is 0.2 A g-1, the capacity is 309 mA g-1. After 100 cycles, the reversible capacity is 285 mA h g-1. After 3000 cycles, the reversible capacity is 252 mA h g-1.



21: 2024/05374. 22: 2024/07/10. 43: 2024/08/21 51: F42B

71: ALTERNATIVE BALLISTICS CORPORATION
72: ELLIS, Christian, WEINRIB, Benjamin
33: US 31: 17/644,060 32: 2021-12-13
54: BULLET CAPTURING BALLISTIC SLUGS
00: -

The inventive subject matter is directed to systems and apparatuses that are designed to work in cooperation with a firearm such that the firearm can fire a less lethal projectile. Systems can include a mounting device that clips onto a firearm, where that mounting device also include mounting posts. The mounting posts protrude from an end of the mounting device, and the mounting posts are designed to couple with mounting holes on an associated slug. Slugs of the inventive subject matter thus feature mounting holes and a centerbored hole that is designed to capture a bullet that is fired from a firearm that the system is coupled to. When a bullet is captured by a slug, an inelastic collision takes place that causes the slug to leave the firearm at around 20% of the bullet's original speed.



21: 2024/05464. 22: 2024/07/12. 43: 2024/08/21 51: A41G; A45D 71: SHAOYANG YIMEI TECHNOLOGY CO., LTD. 72: LI, Genyang, HE, Hongwei, LI, Shuyang 54: WIG STORAGE DEVICE 00: -

A wig storage device, comprising: a frame main body (1), the frame main body (1) comprising a base (11), a working cavity (12) formed inside the base (11) for collecting broken hair and impurities, and a hollow supporting rod (13) fixedly mounted in the center of an inner wall of the working cavity (12); and an adjustable wig placement assembly (2) arranged at the top of the hollow supporting rod (13), the adjustable wig placement assembly (2) comprising an adjustable part (21), wherein the adjustable part (21) is arranged at the top of the hollow supporting rod (13). The wig storage device, which relates to the technical field of wig storage, can effectively solve the problem in the prior art that many wigs are custom-designed, the sizes and styles thereof are different, and the internal spaces thereof are also different, but existing wig storage devices mostly have a structure of a fixed-type supporting frame and cannot adapt to wigs of different sizes and models; and the hair sleeve structure of the inside of a wig may expand after storage for a long time, so that the hair sleeve deforms and cannot be closely fitted to the head of a user, affecting subsequent wearing.



21: 2024/05465. 22: 2024/07/12. 43: 2024/08/21 51: A41G

71: SHAOYANG ZHITAI HAIR PRODUCTS CO., LTD.

72: WANG, Xiaojun, HUANG, Gengjun, GONG, Jianping, PENG, Yu

# 54: WIG COMBING DEVICE

00: -

A wig combing device, comprising: a base (1); a combing part (3) disposed on the base (1); and a driving part (4) disposed on the base (1) and configured to drive the combing part (3) to move along a straight line on the base (1). The combing part (3) comprises: a first cross beam (31) slidably connected to the base (1), the first cross beam (31) being driven by the driving part (4) to move along a straight line on the base (1); a combing roller (33) rotatably connected on the first cross beam (31), a plurality of needle-like structures being spirally distributed on the combing roller (33); a driving assembly disposed on the first cross beam (31) and configured to drive the combing roller (33) to rotate on the first cross beam (31); and a first pressing plate (36) hingedly connected to the first cross beam (31) and configured to press the wig on the combing roller (33). According to the wig combing device, a rotatable combing roller (33) is arranged to enable the wig combing device to move along a wig, and moreover, the needle-like structures simulate an action of combing hair, so that the wig can be

automatically combed, and the physical strength of workers is saved.



21: 2024/05466. 22: 2024/07/12. 43: 2024/08/21 51: A41G; A63H

71: SHAOYANG RUIXIANG HAIR PRODUCTS CO., LTD.

72: LI, Xiaojun, WANG, Shaolin

#### 54: WIG HAIR TRANSPLANTATION DEVICE AND HAIR TRANSPLANTATION METHOD 00: -

A wig hair transplantation device and a hair transplantation method. The wig hair transplantation device comprises a frame body (1), a sliding frame (2) capable of guiding and sliding along the width direction of the frame body (1), a trigger (3) capable of guiding and lifting/lowering on the sliding frame (2), and a machining block (4) mounted on the frame body (1). The machining block (4) is capable of guiding and sliding along the width direction of the frame body (1). The machining block (4) is separately provided with a punching assembly for punching a wig base body and a glue dispensing assembly for injecting glue into each hole. A trigger (3) capable of vertically lifting/lowering is provided for separately triggering the punching assembly and the glue dispensing assembly. By means of rightangled trapezoidal rotary cutting needles (51) having bevel edges and arc-shaped surfaces, transplantation holes (52) having narrow upper parts and wide lower parts can be provided for the base body in the process of punching the wig base body. Glue is then injected into each transplantation hole (52), the volume of the lower end of the transplantation hole (52) is large, more glue can be accommodated, and the connection strength between the wig base body and the wig is improved.



21: 2024/05618. 22: 2024/07/19. 43: 2024/08/21 51: B60R

71: Xinyu University

72: Liu Hesheng, Xie Xiaoda, Yan Zhiyong, Li Naigen

# 54: AUTOMOBILE SAFETY AND ANTI-THEFT DEVICE

#### 00: -

The present invention provides an automobile safety and anti-theft device, including a lock body; the lock body includes a fixing rod, a fixing claw fixedly mounted on one end of the fixing rod and a connecting shaft slidingly connected to the inside of the fixing rod; one end of the connecting shaft is also fixedly mounted with the fixing claw, and an adjusting assembly for adjusting the spacing between the two sets of fixing claws is provided inside the fixing rod. When the rotating shaft rotates, the present invention drives the driving bevel gear to rotate, and then drives the driven bevel gear which is in meshing connection with the driving bevel gear to rotate, and then drives the rotating shaft inside the fixing rod to rotate, and rotates the extension sleeve which is in rotational connection with the rotating shaft, and then drives the connecting shaft to slide inside the fixing rod. By adjusting the assembly, it is convenient to adjust the distance between the two sets of fixing claws for the sizes of tires with different widths, so as to increase the flexibility of the lock body for fixing automobile tires; and by providing the measuring rod at the top end of the extension sleeve, it is convenient to adjust the distance by the user, so as to facilitate observation.



21: 2024/05654. 22: 2024/07/22. 43: 2024/08/21 51: A61K

71: Fuan Pharmaceutical Group Ningbo Tianheng Pharmaceutical Co., Ltd.

72: Lin Qu, Yonghua Yu, Kaiwei Luo, Benkai Qin, Hangyu Zhao, Zebei Liu, Menglong Dai, Yaqing Liu, Yuchen Su, Wei Wang

# 33: CN 31: 2023116207097 32: 2023-11-30 54: STABLE GRANISETRON HYDROCHLORIDE TABLET AND PREPARATION METHOD THEREFOR

00: -

The present invention discloses a stable granisetron hydrochloride tablet and a preparation method therefor, wherein the granisetron hydrochloride tablet is prepared from the following raw materials in parts by weight: 0.5-1.7 parts of granisetron hydrochloride, 80.4-102.4 parts of fillers, 2-7 parts of a disintegrant, 1-5 parts of an adhesive, and 0.6-1.4 parts of a lubricant. According to the granisetron hydrochloride tablet with stable quality and good uniformity and the preparation method therefor provided by the present invention, the drug substance granisetron hydrochloride and the auxiliary materials are mixed uniformly by methods such as premixing and wet granulation, such that the uniformity and stability of the product are improved.



21: 2024/05702. 22: 2024/07/23. 43: 2024/08/21 51: D01B; D01G

71: WEST ANHUI UNIVERSITY, THE SEA FEATHER LIMITED COMPANY OF LU'AN, LU'AN FENGYU ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD.

72: LI, Lingang, YU, Jingui, ZHU, Yelong, YU, Xueyong, QIN, Yu

#### 33: CN 31: 202111614028.0 32: 2021-12-27 54: DOWN FEATHER SEPARATION PRODUCTION PROCESS 00: -

A down feather separation production method, and down feathers obtained thereby. The method comprises: S1, carrying out dust removal on a down feather raw material by using a first-stage dust removal device, to obtain a first-stage raw material; S2, feeding the first-stage raw material into a washing machine, washing same with a washing liquid at 30-40 degree Celsius until a filtrate is clear, washing same with water once more, and then feeding same into a water removal apparatus for water removal, to obtain a second-stage raw material; S3, feeding the second-stage raw material into a dryer for drying, to obtain a third-stage raw material; and S4, feeding the third-stage raw material into a second-stage dust removal device, to obtain a fourth-stage raw material, removing impurities from the fourth-stage raw material, and then feeding same into a feather separator for a feather separation treatment.



21: 2024/05769. 22: 2024/07/25. 43: 2024/08/14 51: A61K; C12N; A61P 71: EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY 72: SHI, Weiyun, ZHOU, Qingjun, LI, Zongyi, DONG, Chunxiao, DUAN, Haoyun 54: USE OF RETINAL PIGMENT EPITHELIAL CELLS IN REPLACEMENT OF CORNEAL ENDOTHELIA

00: -

The present invention discloses the application of retinal pigment epithelial cells for replacing corneal endothelial cells, preventing and treating diseases or symptoms such as corneal endothelial functional decompensation. The retinal pigment epithelial cell suspension provided by the present invention can restore corneal transparency, reduce corneal thickness, reconstruct corneal endothelial barrier function, effectively treat corneal endothelial functional decompensation, and has a wide range of application values and positive social benefits for the treatment or recovery of people with visual impairment due to corneal injury.

21: 2024/05784. 22: 2024/07/26. 43: 2024/08/21 51: C04B

71: China Road And Bridge Corporation
72: Fei DU, Gang LI, Bo YANG, Jingliang XIA, Feng ZENG, Ruizheng LI, Chaoqun TANG, Chao GAO, Xisheng FANG, Bile CHEN
33: CN 31: 2022105297907 32: 2022-05-16
54: MINERAL ADMIXTURE FOR INHIBITING
TEMPERATURE RISE OF CONCRETE
HYDRATION AND PREPARATION AND
APPLICATION THEREOF
00: -

The present invention relates to the technical field of concrete, and specifically relates to a mineral admixture for inhibiting the temperature rise of

concrete hydration and preparation and application thereof. The mineral admixture comprises the following components in their respective parts by mass: porous mineral admixture: 40 to 70 parts; composite hydration temperature rise inhibitor: 20 to 40 parts; super absorbent polymer: 5 to 20 parts; chelating agent: 3 to 8 parts; and permeation enhancer: 3 to 8 parts. By using a combination of modified protein-based hydration temperature rise inhibitors and reaction endothermic ammonia-based hydration temperature rise inhibitors, the purpose of simultaneously delaying the cement hydration reaction and lowering the peak temperature of hydration reactions is achieved. The shrinkage of concrete is significantly reduced by a mixture of sodium polyacrylate and polyacrylamide. As compared with the prior art, the present invention can significantly reduce the temperature rise of concrete hydration and the temperature rise-induced shrinkage, while also effectively reducing the autogenous shrinkage and drying shrinkage of concrete, all without compromising the strength and durability of the concrete.

21: 2024/05872. 22: 2024/07/30. 43: 2024/08/21 51: B66C

71: China Road And Bridge Corporation, ROAD & BRIDGE INTERNATIONAL CO., LTD., Road & Brdige Southern China Engineering Co., Ltd.
72: Lijun Wang, Guannan Lu, Yongtao Zhou, Kelin Zeng, Jiao Zhang, Dongchang Wen
33: CN 31: 202210910554X 32: 2022-07-29
54: METHOD FOR INTEGRAL LIFTING OF STEEL
BAR SEGMENT WITH A LARGE DIAMETER AND A VARIABLE CIRCULAR CROSS SECTION 00: -

The present application discloses a method for integral lifting of steel bar segment with a large diameter and a variable circular cross section that makes use of the adjustable disc-shaped lift frame and reasonable use of the shape and deformation characteristics of the steel bar segment with a large diameter and a variable circular cross section. The method involves first connecting the less deformed arc section's main bars, then relieving most force from the main hook to let the segment restore its shape, and finally connecting the more deformed straight section's bars. This approach avoids additional deformation-reduction measures, such as adding bar rings or increasing the stiffness of the stiff skeleton, etc., which increase the integral lifting weight, thus saving materials and speeding up the steel bar connection.



21: 2024/05902. 22: 2024/07/31. 43: 2024/08/21 51: A61K; A61L 71: EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY 72: SHI, Weiyun, ZHOU, Qingjun, ZHAO, Long, WANG, Ting, SHI, Zhen 33: CN 31: 202311090123.4 32: 2023-08-28 54: LOW-SWELLING DECELLULARIZED CORNEA, AND PREPARATION METHOD AND APPLICATION THEREOF 00: -

The present invention provides a decellularized cornea treated by a method for reducing swelling property, which contains a monomer polymer in a corneal stroma, and the monomer polymer forms a polymerization network in the corneal stroma; the polymerization network has no swelling property or low swelling property, which limits the swelling of the decellularized cornea in a solution; and the cornea can directly come into contact with aqueous humor, can be used for replacing the corneal stroma, and is suitable for penetrating keratoplasty.



21: 2024/05903. 22: 2024/07/31. 43: 2024/08/21 51: A61K; C07D; A61P; B82Y 71: EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY 72: SHI, Weiyun, WANG, Hongwei, ZHOU, Qingjun,

QI, Xia, SONG, Fangying

33: CN 31: 202311607922.4 32: 2023-11-29 54: ORGANIC MOLECULAR CAGE, ORGANIC MOLECULAR CAGE NANO-ENZYME EYE DROPS AND PREPARATION METHOD THEREOF 00: -

The present invention provides an organic molecular cage, an organic molecular cage nanozyme eye drop and a preparation method therefor, and relates to the technical field of eye drop drugs. A preparation method for an organic molecular cage comprises the following steps: S1: mixing a solution of a carboxyl-containing aliphatic o-diamine compound with an alkali solution and conducting ultrasonic dissolution to obtain a transparent solution. S2: Adding the transparent solution obtained in step S1 into a TFP aqueous solution, and standing the mixture. S3: Concentrating, precipitating, rinsing and drying the solution after standing in step S2 successively to obtain an organic molecular cage. Then the organic molecular cage is synthesized with a soluble ferrite and a silver salt to obtain an organic molecular cage nanozyme. The preparation method of the present invention has simple operation and short preparation time; the eye drop obtained has a broad-spectrum bactericidal effect on a variety of bacteria and fungi, and a good therapeutic effect on fungal corneal infection.



21: 2024/05904. 22: 2024/07/31. 43: 2024/08/21 51: A61K; A61L 71: EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY 72: SHI, Weiyun, ZHOU, Qingjun, ZHAO, Long, WANG, Ting, SHI, Zhen 33: CN 31: 202311089981.7 32: 2023-08-28 54: PREPARATION METHOD AND APPLICATION OF BIONIC BIOLOGICAL MATERIAL 00: -

The present invention discloses a preparation method of a biomimetic corneal stroma or skin, which takes heterogeneous or homogeneous corneal stroma or skin as a template, infuses chondroitin sulfate derivatives into gaps of the corneal stroma or skin, and digests the original corneal stroma or skin after curing, to obtain a polymer skeleton that copies the structural features of a natural stroma. After collagen is refilled, the biomimetic corneal stroma or skin with the structural features of a natural cornea is obtained. The preparation method provided by the present invention reduces the immunogenicity in addition to the heterogeneous protein in the natural biological tissue, also retains the structural features of the natural tissue, and realizes the bionics of the natural biological tissue by artificial biomaterial.



21: 2024/05910. 22: 2024/07/31. 43: 2024/08/21 51: A61K; A61L

71: EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY

72: SHI, Weiyun, WEI, Chao, YU, Yaoyao, MA, Li 33: CN 31: 202311398436.6 32: 2023-10-26 54: APPLICATION OF REGULATORY T CELL EXOSOME IN PREPARATION OF MEDICINE FOR PROMOTING CORNEAL INJURY REPAIR 00: -

The present invention belongs to the technical field of biomedicine, and particularly relates to an application of regulatory T cell exosomes in preparing a drug for promoting corneal injury repair. The regulatory T cell exosomes of the present invention can effectively promote corneal injury repair and corneal epithelium regeneration, so as to promote recovery of corneal injury-related diseases and increase medicinal uses of the regulatory T cell exosomes.



21: 2024/05912. 22: 2024/07/31. 43: 2024/09/04 51: A61K; A61L

# 71: EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY

72: SHI, Weiyun, ZHAO, Long, ZHOU, Qingjun, WANG, Ting, SHI, Zhen, WANG, Fuyan
33: CN 31: 202311090088.6 32: 2023-08-28
54: PREPARATION METHOD AND APPLICATION OF HUMAN-DERIVED BIOLOGICAL CORNEAL STROMA
00: -

The present invention discloses a preparation method of a human-derived biological corneal stroma which is composed of a human corneal solution and a PEGDA skeleton. The human-derived biological corneal stroma is prepared by reconstruction of a human corneal tissue, has good biocompatibility and regeneration promotion capability, and also has the optical characteristics and ultrastructural features of the human corneal tissue.

Human-derived biological cornea

Human cornea





21: 2024/06071. 22: 2024/08/07. 43: 2024/08/21 51: C12N

71: HUBEI MAOSHENG BIOLOGY CO., LTD. 72: Jie Huang, Wanyang Chen, Hongshuan Qiu, Zhilei Tan, Yixin Zhou, Yu Jiang, Qi Liu, Deng Fan, Yan Chen, Wei Li, Yineng Jiao, Fei Huang, Xianrong Yan, Shibai Zhang, Bin Zhou

33: CN 31: 202311639516.6 32: 2023-11-30 54: A STRAIN OF GELATINOUS PAENIBACILLUS MSSW03 AND ITS APPLICATION 00: -

The invention relates to the technical field of biological engineering, in particular to a strain of gelatinous paenibacillus MSSW03 and its application. A strain of gelatinous paenibacillus MSSW 03, with the Latin mane of Paenibacillus muc ilagino sus; The deposit number is CCTCC NO: M 20231473. The invention obtains a gelatinous paenibacillus which can effectively promote plant

growth through strain screening and plant growth promotion experiment, and has fast growth rate and stability, which can be used for preparing liquid bactericide and applied in microbial fertilizer.



21: 2024/06246. 22: 2024/08/14. 43: 2024/08/21 51: C07C; C07D

71: QINGYAN BOSHI HEALTH MANAGEMENT CO., LTD.

72: JIANG, Yanfei

#### 33: CN 31: 202210130260.5 32: 2022-02-11 54: P-PHENYLCYCLOBUTANAMIDE ROSEMARY COMPOUND AS HYALURONIDASE INHIBITOR AND APPLICATION THEREOF IN BEAUTY PRODUCT

00: -

Disclosed in the present invention is a pphenylcyclobutanamide rosemary compound and a preparation method therefor, and a use of the compound as a hvaluronidase inhibitor and an antiaging beauty product. Specifically, disclosed in the present invention is preparation of a series of rosmarinic acid derivatives. In vitro activity tests show that such rosmarinic acid derivatives have strong hyaluronidase inhibitory activity, with an IC50 of about 10-20 µg/mL, which is obviously higher than that of rosmarinic acid, with an IC50 of about 102 ug/mL. The rosmarinic acid derivatives have very low cytotoxicity, have remarkably enhanced fat solubility compared with rosmarinic acid, are more easily absorbed by skin tissues, and can be used as an anti-aging component for manufacturing a beauty product. Also disclosed in the present invention is an application of the rosmarinic acid derivatives as abeauty component to prepare an anti-aging skin care facial mask.



21: 2024/06247. 22: 2024/08/14. 43: 2024/08/21 51: A61K; C07D; A61P 71: QINGYAN BOSHI HEALTH MANAGEMENT CO., LTD. 72: JIANG, Yanfei 33: CN 31: 202210130214.5 32: 2022-02-11 54: 1,3-DISUBSTITUTED INDOLE DERIVATIVE AS HYALURONIDASE INHIBITOR AND USE THEREOF IN COSMETIC PRODUCT 00: -

Disclosed in the present invention are a 1,3disubstituted indole derivative, and a preparation method therefor, and the use thereof as a hyaluronidase inhibitor and in the preparation of an anti-aging beauty product. Specifically, disclosed in the present invention is the preparation of a class of 1.3-disubsituted indole derivatives. In-vitro activity test assay shows that the 1.3-disubstituted indole derivatives have strong hyaluronidase inhibition activity with an IC50 of about 1-10 µg/mL. In addition, the 1,3-disubstituted indole derivatives have very low cytotoxicity, strong fat solubility, are easily absorbed by skin tissues, and can be used as an anti-aging ingredient for preparing beauty products. The invention also discloses the use of the 1,3-disubstituted indole derivative as a cosmetic ingredient for preparation of an anti-skin aging facial mask.



21: 2024/06248. 22: 2024/08/14. 43: 2024/08/21 51: A61K; C07J; A61Q 71: QINGYAN BOSHI HEALTH MANAGEMENT CO., LTD. 72: JIANG, Yanfei 33: CN 31: 202210129217.7 32: 2022-02-11 54: 3A-OLEANOLIC ACID DERIVATIVES AS HYALURONIDASE INHIBITORS AND USES THEREOF IN COSMETIC PRODUCTS

## 00: -

The invention relates to a 3a-triazolyl-oleanolic acid derivative and a preparation method thereof, and the use of the 3a-triazolyl-oleanolic acid derivative as a hyaluronidase inhibitor and for preparation of antiaging beauty products. Specifically, the invention discloses a series of 3a-triazolyl-oleanolic acid derivatives with the structure shown as the general formula (I), and a preparation method thereof. In vitro activity assay showed that the oleanolic acid derivative had high hyaluronidase inhibition activity, with an IC50 of about 1-10 µg/mL, which was obviously higher than that of oleanolic acid with an IC50 of about 56 µg/mL. A cell proliferation assay showed that the 3a-triazolyl-oleanolic acid derivative had very low cytotoxicity to mammals. The 3atriazolyl-oleanolic acid derivatives have better fat solubility, are easily absorbed by skin tissues, and can be used as an anti-aging ingredient for preparing beauty products. The invention also discloses the use of the 3a-triazolyl-oleanolic acid derivative as a cosmetic ingredient for preparation of an anti-skin aging facial mask.



21: 2024/06665. 22: 2024/08/28. 43: 2024/09/03 51: A61K; C07K; A61P 71: YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD. 72: CHEN, Xiaoyuan, WU, Xiaoming, XU, Pengfei, HE, Tian, YANG, Qingbao 33: CN 31: 202211576787.7 32: 2022-12-09 54: COMPOUND TARGETING SSTR2, PREPARATION METHOD THEREFOR AND USE THEREOF 00: - The present invention provides a compound targeting SSTR2, a preparation method therefor and a use thereof, and relates to the fields of nuclear medicine and molecular imaging. The compound targeting SSTR2 has a structure shown in a formula (I) below, and a compound targeting SSTR2 and capable of being labeled with a radionuclide has a structure shown in a formula (II) below. The present invention further provides a radionuclide labeled compound targeting SSTR2 that is obtained by labeling the compound shown in the formula (II) with a radionuclide. The present invention further provides methods for preparing the compounds shown in the formula (I) and the formula (II) and a use of the compounds in preparation of drugs for diagnosis and/or treatment of diseases characterized by over-expression of SSTR2.



21: 2024/06794. 22: 2024/09/03. 43: 2024/09/06 51: F26B

71: ANHUI CHENYU MACHINERY TECHNOLOGY CO, LTD

72: DUAN Xianwu, YANG Jian, ZHU Huangfu 33: CN 31: 202210878016.7 32: 2022-07-25 54: GRAIN DRYER MAIN ENGINE CHASSIS WITH HIGH STRESS SUPPORTING STRUCTURE 00: -

A grain dryer main engine chassis with a high stress supporting structure includes a supporting square plate, a plurality of fixing holes are symmetrically disposed at four corners of a top surface of the supporting square plate; supporting upright columns, the supporting upright columns are respectively vertically and symmetrically arranged at four corners of the top surface of the supporting square plate, and transverse beam columns are respectively vertically and horizontally bridged between end portions of adjacent supporting upright columns; elastic support assemblies, the elastic support assemblies are erected horizontally opposite to each

other on top surfaces of the supporting upright columns; and a mounting plate, the mounting plate is horizontally arranged on top surfaces of the two elastic support assemblies. In the present invention, a grain dryer main engine is flexibly connected to a chassis, the supporting square plate increases a contact area between the whole chassis and a hardened ground, and the supporting stress of the chassis is effectively improved. In a production process, longitudinal vibration force from the grain dryer main engine can be reduced, and the chassis is not easily deformed or even broken due to excessive local pressure, thus effectively prolonging the service life thereof.



21: 2024/06830. 22: 2024/09/04. 43: 2024/09/06 51: C04B

71: GUILIN UNIVERSITY OF ELECTRONIC TECHNOLOGY

72: WANG YAN, XU HAOTIAN, LUO YI, ZHANG YINGHONG, CHEN JINLONG, GAO CHENG, MO CHOU, LIU SHIQI

# 33: CN 31: 202210968739.6 32: 2022-08-12 54: HIGH-TEMPERATURE POLARIZATION METHOD FOR STRIP-SHAPED OR ROD-SHAPED PIEZOELECTRIC CERAMICS

00: -

The present disclosure relates to the technical field of piezoelectric ceramics polarization, and particularly relates to a high-temperature polarization method for strip-shaped or rod-shaped piezoelectric ceramics. The piezoelectric ceramics are heated to a temperature above a Curie temperature point in a closed polarization environment, and an electric domain turning resistance of the piezoelectric ceramics is reduced to a preset value. Voltages are applied to two ends of the piezoelectric ceramics, and an electric domain orientation of the piezoelectric ceramics are converted, through a temperature reduction and pressure increase method, to be consistent with a direction in which an electric field is applied. The piezoelectric ceramics are cooled to a room temperature, and polarization is completed. According to the method, voltages applied to two ends of a piezoelectric fiber can be reduced by reducing internal resistance of the piezoelectric fiber. In order to prevent a depolarization phenomenon of the piezoelectric fiber caused by an overhigh temperature, polarization is completed through the temperature reduction and pressure increase method above the Curie temperature point of the piezoelectric fiber. The problem that in a traditional low-temperature polarization process of the piezoelectric ceramics, an excessive polarization voltage is likely to break down an electric field damage material, and resource waste is caused is solved.



#### 21: 2024/06831. 22: 2024/09/04. 43: 2024/09/05 51: H01H

71: Beijing Qingchang Power Technology Co., Ltd 72: Jiayao Wang, Huatian Wang, Huanfen Zhang, Jingsheng Fan

33: CN 31: 2023110765047 32: 2023-08-24 54: HIGH-VOLTAGE LOAD SWITCH WITH MAGNETIC BLOWOUT COMPOSITE ARC EXTINGUISHING CAPABILITY

#### 00: -

The present invention relates to a high-voltage load switch with magnetic blowout composite arc extinguishing capability, including a rear fixing plate and a front fixing plate, wherein between the rear fixing plate and the front fixing plate, an upper beam is mounted on the upper right, a lower beam is mounted on the lower right, and a grounding beam is mounted on the lower left; a plurality of upper insulators are arranged at intervals on the upper beam; a plurality of isolation contacts are mounted correspondingly on the plurality of upper insulators; and a copper-tungsten alloy arc-directing pin and an arc-directing closure assembly are provided on a lower side of each isolation contact. In the present invention, permanent magnets and arc chutes are used in combination for arc extinguishing. At the time of moving contact opening, an arc is blown to gaps in an arc-directing closure assembly under the action of magnetism, and the arc-directing closure assembly generates an electromagnetic force perpendicular to a moving trajectory of the arc, such that under the action of the electromagnetic force, the arc is split into multiple segments, lengthened and rapidly cooled, and energy of the arc is absorbed, forcing the arc be to extinguished or preventing its reignition after a zero crossing point, so the arc extinguishing effect is significantly improved. The present invention has the advantages of timely arc extinction response and strong arc extinction capability. The high-voltage load switch has a smaller overall volume and lowered cost, and is safer and more reliable.



# HYPOTHECATIONS

No records available

JUDGMENTS

No records available

# OFFICE PRACTISE NOTICES



#### NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21 OF THE PATENT ACT 1978

#### THE PATENT EXAMINATION BOARD

The Patent Examination Board, in terms of section 21 of the Patents Act, 1978 (Act No. 57 of 1978) and regulation 12 of the Patent Examination Regulations 2018, hereby calls for nominations of (i) course convenors and examiners and (ii) moderators for the period of three years commencing March 2025 in the following subjects:

No	Subject		Post (i)	Post (ii)
1	1(a)	Legal framework for the protection of intellectual property in South Africa, with a focus on trade marks, copyright, plant breeders' rights and international treaties relevant to patent law	<ol> <li>Examiner: Trade Marks Act</li> <li>Examiner: Copyright</li> <li>Examiner: Plant breeders' rights Act</li> <li>Examiner: International treaties relevant to patent law</li> </ol>	Moderator
2	1(b)	SA patent law and practice	Examiner	Moderator
3	1(c)	SA design law and practice	Examiner	Moderator
4	2(d)	Selected international patent laws, systems, conventions and treaties	Examiner	-
5	2(e)	The drafting of patent specifications	Examiner x2	Moderator
6	2(f)	Practical legal problems with regard to patents	Examiner x2	Moderator
7	2(g)	Patent attorney's practice	Examiner	Moderator
8	2(h)	Interpretation of Drawings	Examiner	-

Candidates are requested to email their CVs to Ms Khanyisa Sheperd Tjale (PEBSectretariat@thedtic.gov.za), by 31 October 2024. Please indicate whether you are applying for the position of (i) convenor and examiner or (ii) moderator, and the relevant subject 1(a) to 2(h).

SMNuatlo

Dr Sheila Mavis Nyatlo Chairperson Patent Examination Board 20 September 2024

 Chairperson
 : Dr Mavis Nyatlo

 Members
 : Ms Shanaaz Mahomed, Adv Paul Sibisi, Mr Johnny Fiandeiro, Ms Thandiwe Khumalo, Dr Magdalena Kleyn and Ms Mathoto Masetla-Mafa

 Secretariat
 : Ms Sheperd Khanyisa Tjale: PEBSecretariat@thedtic.gov.za



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# NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21 OF THE PATENT ACT 1978

#### PATENT EXAMINATION BOARD

The Patent Examination Board, in terms of Section 21(3)(a)(ix)(bb) of the Patents Act, 1978, has issued certificates to the persons listed below who have passed the prescribed examinations in 2024.

- 1. Mr Richard Walter Gaugeler
- 2. Ms Stellar Veronica-Antonia Rodrigues Frisby
- 3. Ms Devina Chetty

SMNyatlo

Dr Sheila Mavis Nyatlo Chairperson Patent Examination Board 20\_\_/ September 2024

Chairperson Members Secretariat : Dr Mavis Nyatlo

: Ms Shanaaz Mahomed, Adv Nhlanhla Sibisi, Mr Johnny Fiandeiro, Ms Thandiwe Khumalo, Dr Magdalena Kleyn and Ms Mathoto Masetla-Mafa

: Ms Sheperd Khanyisa Tjale: PEBSecretariat@thedtic.gov.za


## DESIGNS

# APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 2024/08/26 -

F2024/00832 - HENDRIK FREDERIK DU PLESSIS Class 22. AN AIRGUN RECEIVER

F2024/00828 - LEANDER GROUP PROPRIETARY LIMITED Class 12. WHEEL FOR A WHEELBARROW

A2024/00831 - HENDRIK FREDERIK DU PLESSIS Class 22. AN AIRGUN RECEIVER

F2024/00833 - M-TEK CONSTRUCTION PRODUCTS (PTY) LTD. Class 25. BARRIER SET

F2024/00826 - Wilhelmus Corneluis Adolf Moller Class 31. DEEP FEED TRENCHER POT

A2024/00827 - LEANDER GROUP PROPRIETARY LIMITED Class 12. WHEEL FOR A WHEELBARROW

A2024/00829 - ATLAS PLASTICS (PTY) LIMITED Class 08. HYDROPONIC TOWER STACKING SEGMENT

F2024/00830 - ATLAS PLASTICS (PTY) LIMITED Class 08. HYDROPONIC TOWER STACKING SEGMENT

- APPLIED ON 2024/08/27 -

A2024/00836 - Versuni Holding B.V. Class 07. AIR FRYER

A2024/00835 - Versuni Holding B.V. Class 07. AIR FRYER

A2024/00834 - Versuni Holding B.V. Class 07. BASKET FOR AIR FRYER

- APPLIED ON 2024/08/28 -

A2024/00838 - Chery Automobile Co., Ltd. Class 12. AUTOMOBILES

F2024/00837 - BOSAL AFRICA (PTY) LTD Class 12. TOW BAR ASSEMBLIES

A2024/00840 - Guangzhou Sanjing Electric Co., Ltd. Class 13. ALL-IN-ONE ENERGY STORAGE CABINET

A2024/00839 - ORIGIN MATERIALS OPERATING, INC. Class 9. BOTTLE CAP

- APPLIED ON 2024/08/29 -

A2024/00847 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS

A2024/00850 - MVELO CHRISTOPHER MBANJWA Class 02. ROCKING BRANDS

A2024/00841 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS

A2024/00848 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS

A2024/00842 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS

A2024/00849 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS A2024/00846 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS A2024/00845 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS A2024/00843 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS A2024/00844 - Zuffa, LLC Class 02. SPORTS APPAREL SURFACE PATTERNS . - APPLIED ON 2024/08/30 -

F2024/00851 - DUBE, Alexander Memory Class 09. MODULAR CONTAINER F2024/00852 - DUBE, Alexander Memory Class 09. MODULAR CONTAINER

- APPLIED ON 2024/09/02 -

F2024/00860 - Zuffa, LLC Class 02. GLOVES

F2024/00858 - Zuffa, LLC Class 02. GLOVES

A2024/00853 - Zuffa, LLC Class 02. GLOVES

A2024/00855 - Zuffa, LLC Class 02. GLOVES

A2024/00857 - Zuffa, LLC Class 02. GLOVES

F2024/00861 - Zuffa, LLC Class 02. GLOVES

F2024/00862 - Zuffa, LLC Class 02. GLOVES

A2024/00854 - Zuffa, LLC Class 02. GLOVES

A2024/00856 - Zuffa, LLC Class 02. GLOVES

F2024/00859 - Zuffa, LLC Class 02. GLOVES

- APPLIED ON 2024/09/03 -

F2024/00865 - MPACT LIMITED Class 9. BOX CONNECTOR

A2024/00863 - Shanghai Jinyuecheng Technology Co., Ltd. Class 14. AUDIO AND TELEVISION

F2024/00864 - Rocbolt Technologies (Pty) Ltd. Class 8. A STRUCTURAL SPACER MEMBER FOR A ROCK BOLT

A2024/00868 - WAHL CLIPPER CORPORATION Class 28. HAIR TRIMMER

A2024/00866 - MPACT LIMITED Class 9. BOX CONNECTOR

F2024/00867 - MPACT LIMITED Class 9. BOX CONNECTOR BLANK

- APPLIED ON 2024/09/04 -

A2024/00869 - BLISS BRANDS (PTY) LTD Class 9. BOTTLES

- APPLIED ON 2024/09/05 -

A2024/00870 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

- APPLIED ON 2024/09/06 -

A2024/00872 - MACNAUGHT PTY LTD Class 08. GREASE GUN

F2024/00873 - MACNAUGHT PTY LTD Class 08. GREASE GUN

A2024/00871 - POOLS INTERNATIONAL LIMITED Class 23. 'POOL FILTERS

- APPLIED ON 2024/09/09 -

F2024/00879 - Andries Kotze Class 10. GAS MEASURING DEVICE

F2024/00875 - C Mad (Pty) Ltd, Chuma Madayile Class 3. MONEY BANK PRODUCT

F2024/00878 - Circuit City Electronics SA (Pty) Ltd Class 09. A PACKET CLIP WITH QR CODE

A2024/00877 - Jemella Group Limited Class 28. HAIR IRONS

A2024/00874 - Kgothatso Alpheus Mokonyane Class 14. ULTIMATE ARCHIVES (UA) WEBSITE & MOBILE APP DESIGN

A2024/00876 - Jemella Group Limited Class 28. HAIR IRONS

- APPLIED ON 2024/09/10 -

A2024/00880 - Guangdong Sembo Culture Industry Co., Ltd. Class 21. BLOCK TOY

F2024/00882 - V3 COLDCAB (PTY) LTD. Class 15. COLD WELL

A2024/00881 - FLEXIBLE STEEL LACING COMPANY Class 08. FASTENER FOR STEEL CABLE CONVEYOR BELTS

F2024/00883 - FLEXIBLE STEEL LACING COMPANY Class 08. FASTENER FOR STEEL CABLE CONVEYOR BELTS

- APPLIED ON 2024/09/11 -

A2024/00886 - Versuni Holding B.V. Class 23. VENTILATING FAN

A2024/00884 - SODASTREAM INDUSTRIES LTD. Class 31. DOMESTIC SODA-WATER PREPARING DEVICE

A2024/00885 - Versuni Holdings B.V. Class 23. VENTILATING FANS

- APPLIED ON 2024/09/12 -

F2024/00888 - ELECTROFLAME MANUFACTURING (PTY) LTD. Class 26. LIGHTING SET

A2024/00889 - ADDS UP ENGINEERING PTY LTD Class 31. MACADAMIA DE-HUSKER

F2024/00887 - ELECTROFLAME MANUFACTURING (PTY) LTD. Class 26. LIGHTING SET

- APPLIED ON 2024/09/16 -

- A2024/00897 SAILUN GROUP CO., LTD. Class 12. TYRE
- F2024/00902 Neill Human Class 23. HEATING DEVICE

A2024/00900 - SAILUN GROUP CO., LTD. Class 12. TYRE

A2024/00893 - SAILUN GROUP CO., LTD. Class 12. TYRE

A2024/00895 - SAILUN GROUP CO., LTD. Class 12. TYRE

- A2024/00901 SAILUN GROUP CO., LTD. Class 12. TYRE
- A2024/00903 LOTUS BAKERIES N.V. Class 9. JAR WITH A LID
- A2024/00899 SAILUN GROUP CO., LTD. Class 12. TYRE
- A2024/00891 Versuni Holding B.V. Class 15. ROBOTIC LAWN MOWERS
- A2024/00892 Shenzhen Ten Rings Optics Co., Ltd. Class 16. NIGHT VISION DEVICE
- A2024/00894 SAILUN GROUP CO., LTD. Class 12. TYRE
- A2024/00896 SAILUN GROUP CO., LTD. Class 12. TYRE
- A2024/00890 Versuni Holding B.V. Class 15. ROBOTIC LAWN MOWERS
- A2024/00898 SAILUN GROUP CO., LTD. Class 12. TYRE

A2024/00904 - Ashley Class 09. GROW TUBE PACKAGING

- APPLIED ON 2024/09/17 -

A2024/00907 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

A2024/00905 - STOLTZ, JOHAN RUDOLPH Class 27. VAPE DEVICE

F2024/00906 - STOLTZ, JOHAN RUDOLPH Class 27. VAPE DEVICE

A2024/00914 - STOHR, ERICA AUGUSTE Class 06. CUSHION

F2024/00917 - AVAX SA 407 CC Class 25. MULLION PROFILE FOR A WINDOW FRAME

F2024/00918 - AVAX SA 407 CC Class 25. A MULLION PROFILE FOR A WINDOW FRAME

A2024/00909 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

A2024/00911 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE

A2024/00912 - SPANGENBERG, ABRAHAM ALBERTUS Class 06. RACK FOR A BIKE HELMET
F2024/00916 - STOHR, ERICA AUGUSTE Class 06. CUSHION
F2024/00919 - Joshua Muthusamy Class 10. STOCK COUNT INNOVATION
F2024/00913 - SPANGENBERG, ABRAHAM ALBERTUS Class 06. RACK FOR A BIKE HELMET
A2024/00915 - WAHL CLIPPER CORPORATION Class 28. STATIONARY BLADE FOR HAIR CLIPPER
A2024/00910 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE
A2024/00908 - PHILIP MORRIS PRODUCTS S.A. Class 27. AEROSOL GENERATING DEVICE, IN PARTICULAR TOBACCO HEATING DEVICE
- APPLIED ON 2024/09/18 -
F2024/00921 - BATTLEMAX (PTY) LTD Class 15. BELT GUARD 2
A2024/00922 - SCHOELLER ALLIBERT GMBH Class 9. BOTTLE CRATE
F2024/00923 - BATTLEMAX (PTY) LTD Class 15. BELT GUARD 3
F2024/00920 - BATTLEMAX (PTY) LTD Class 15. BELT GUARD 1
- APPLIED ON 2024/09/19 -
A2024/00926 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE
A2024/00928 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE
A2024/00929 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE
A2024/00931 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE
A2024/00933 - LVMH Swiss Manufactures SA Class 10. DIALS
A2024/00927 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE
A2024/00924 - OMNI UNITED (S) PTE LTD Class 12. TYRE SIDEWALL
A2024/00925 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE
A2024/00930 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE
A2024/00932 - LVMH Swiss Manufactures SA Class 10. WATCH CASES
APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

# APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

DESIGNS ACT, No. 195 OF 1993

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION.THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART II. AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY BE INSPECTED AND MAY BE OPPOSED

# PART I

Design No: F2022/00709

Applicant: HEILWASSER (Pty) Ltd

Class: 23

Article to which the Design is to be applied. BATHTUBS

Date of lodgment: 23/06/2023

Registrar of Designs

# NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

# **INSPECTION OF DESIGNS**

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

# COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

The numerical references denote the following: (21) Number of application. (22) Date of lodgment. (23) release date (if applicable). (43) Date of registration. (52) Class. (24) Type of design. (71) Name(s) of applicant(s). (33) Country. (31) Number and. (32) Date of convention application. (54) Articles to which design is to be applied. (57) Brief statement of features.

**N.B.**: Date of registration (43) is either Date of lodgment (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

21: A2023/01419 22: 2023-12-14 23:

43: 2024-07-05

52: Class 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC. 33: JP 31: 2023-013744 32: 2023-07-04

#### **54: HEADPHONE**

57: The design is applied to a headphone and is shown in perspective view in the drawing showing the overall appearance thereof.



- 21: A2020/01064 22: 2020-08-03 23:
- 43: 2020-02-04
- 52: Class 10 24: Part A
- 71: Turlen Holding SA
- 33: HSIRID(CH) 31: DM/206444 32: 2020-02-04

# 54: WATCHES

57: The design is for a watch and comprises a tonneau shaped body which includes a bezel, a wide middle case portion and a case back through which the watch's movement can be seen. The dial of the watch is skeletonised and comprises a lattice work, resembling the strings of a tennis racket. Two reuleaux triangles feature on the front of the dial, from which at least part of the watch's movement is suspended. Top and bottom ends of an upper flange are rearwardly curved. The upper flange includes a pair of spaced apart trapezoidal members at each side. A screw is located in each of the trapezoidal members. A fluted crown is located in the middle case portion at a three o'clock position.



- 21: A2020/01364 22: 2020-10-15 23:
- 43: 2020-04-16
- 52: Class 8 24: Part A
- 71: Gripple Limited
- 33: GB 31: 007809983 0004 32: 2020-04-16
- 33: EM(GB) 31: 007809983~0002 32: 2020-04-16

## 54: BRACKETS

57: The design is for a bracket comprising a pair of elongate flat tracks that are each received within a recess of a rectangular bar element such that the bar element is arranged transversely to the tracks. Each track has a curved first end that threads through the recess and a second end which is bent into an L-shape and defines a round recess. Each track defines a plurality of thin transverse recesses. The bar element includes a top wall, a bottom wall and a side wall. Each wall defines a plurality of spaced-apart rectangular recesses.



Three-dimensional view in a first configuration

21: A2020/01622 22: 2020-12-11 23:

43: 2024-07-22

52: Class 12 24: Part A

71: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD

33: US 31: 29/738,788 32: 2020-06-19

# 54: CANOPY FOR A VEHICLE

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a canopy for a vehicle, truck, light delivery vehicle or similar vehicle substantially as illustrated in the accompanying representations.



Perspective rear view

43: 2020-12-18

52: Class 10 24: Part A 71: QLOCKTWO License GmbH

33: EM(DE) 31: 008339477 32: 2020-12-18

54: ASTRÓNOMICAL CLOCKS

57: The subject of the design is an astronomical clock showing the phases of the moon in 14 steps. At new moon (figure 6) only a white surface is visible. With waxing moon stripes with parts of the moon are added one by one, so that at full moon (figure 1) a stylised black moon can be seen.



Figure 1

Front view

21: A2021/00720 22: 2021-06-18 23:

43: 2020-12-18

52: Class 10 24: Part A

71: QLOCKTWO License GmbH

33: EM(DE) 31: 008339477 32: 2020-12-18

# 54: ASTRONOMICAL CLOCKS

57: The subject of the design is an astronomical clock showing the phases of the moon in 4 steps. At new moon (figure 6) only a white surface is visible. With waxing moon stripes with parts of the moon are added one by one, so that at full moon (figure 1) a stylised black moon can be seen.

21: A2021/00719 22: 2021-06-18 23:



Figure 1

Front view

21: A2021/00721 22: 2021-06-18 23:

- 43: 2020-12-18
- 52: Class 10 24: Part A

71: QLOCKTWO License GmbH

33: EM(DE) 31: 008339477 32: 2020-12-18

# 54: ASTRONOMICAL CLOCKS

57: The subject of the design is an astronomical clock showing the phases of the moon in 14 steps. At new moon (figure 6) only a brown marbled surface is visible. With waxing moon stripes with parts of the moon are added one by one, so that at full moon (figure 1) a pale yellow moon can be seen.



Figure 1

Front view

- 21: A2021/00722 22: 2021-06-18 23:
- 43: 2020-12-18
- 52: Class 10 24: Part A

71: QLOCKTWO License GmbH

33: EM(DE) 31: 008339477 32: 2020-12-18

# 54: ASTRONOMICAL CLOCKS

57: The subject of the design is an astronomical clock showing the phases of the moon in 14 steps. At new moon only a brown marbled surface is visible. With waxing moon stripes with parts of the moon are added one by one, so that at full moon a pale yellow moon can be seen.



# Figure 1

Figure 1

Front view

Front view

21: A2021/00723 22: 2021-06-18 23:

43: 2020-12-18

52: Class 10 24: Part A

71: QLOCKTWO License GmbH

33: EM(DE) 31: 008339477 32: 2020-12-18

# 54: ASTRONOMICAL CLOCKS

57: The subject of the design is an astronomical clock showing the phases of the moon in 14 steps. At new moon (figure 6) a black surface with a dark grey moon is visible. With waxing moon stripes with white parts of the moon are

21: A2022/00628 22: 2022-06-06 23:

- 43: 2024-09-05
- 52: Class 31 24: Part A

71: SODASTREAM INDUSTRIES LTD.

33: IL 31: 68433 32: 2022-03-23

# 54: DOMESTIC SODA-WATER PREPARING DEVICE

57: The design is for a domestic soda-water preparing device as shown in the representations.



- 21: A2022/01449 22: 2022-11-11 23: 43: 2022-05-13
- 52: Class 9 24: Part A
- 71: Eli Lilly and Company
- 33: US 31: 29/838,528 32: 2022-05-13
- 54: BLANKS FOR BOXES

57: The design is for a blank for a box substantially as shown in the accompanying representations. The blank has an outer minor rectangular panel, a central rectangular panel, a pair of rectangular panels provided on either side of the central rectangular panel and arranged transverse to the central rectangular panel, an intermediate rectangular panel is provided above the central rectangular panel, and an outer major rectangular panel projects from the intermediate rectangular panel and is arranged transverse to the intermediate rectangular panel. Each of the panels have flaps provided on their ends. Each panel is separated from an adjacent panel by a fold line. Corresponding obround formations are provided on the flaps of the pair of rectangular panels provided on the sides of the central rectangular panel. Corresponding semicircular formations having frangible lines are provided on the flap of the outer major panel and on the outer minor panel.



- 21: A2022/01450 22: 2022-11-11 23:
- 43: 2022-05-13
- 52: Class 20 24: Part A
- 71: Eli Lilly and Company
- 33: US 31: 29/838,534 32: 2022-05-13

# 54: LABELS

57: The design is for a label substantially as shown in the accompanying presentations. The label has adjacent upper icons of an opened padlock and a closed/locked padlock. Below the padlock icons is provided an enlarged off-page connector facing downwardly and occupying at least half the length of the label.



21: A2022/01451 22: 2022-11-11 23:

- 43: 2022-05-13
- 52: Class 32 24: Part A
- 71: Eli Lilly and Company

33: US 31: 29/838,534 32: 2022-05-13

# 54: LOGOS

57: A first triangular member having a first colour. A second triangular member spaced towards the side of the first triangular member and having a side portion that is superimposed on a side portion of the first triangular member. The second triangular member has a second colour and is shorter and smaller in dimensions than the first triangular member. A third triangular member superimposed on the second triangular member and located substantially at the bottom center of the first and second triangular members. The third triangular member being smaller than the second triangular member of the first and second triangular members. The third triangular member and having a third colour. The combination of the triangular members define an inverted V-shaped icon.



21: A2022/01452 22: 2022-11-11 23:

- 43: 2022-05-13
- 52: Class 20 24: Part A
- 71: Eli Lilly and Company
- 33: US 31: 29/838,534 32: 2022-05-13

# 54: LABELS

57: The design is for a label substantially as shown in the accompanying presentations. The label is rectangular shaped and has an off-page connector icon positioned on one side of the label proximate an intermediate portion of the label.



Sole figure

Face-on view

21: A2022/01453 22: 2022-11-11 23:

- 43: 2022-05-13
- 52: Class 20 24: Part A
- 71: Eli Lilly and Company
- 33: US 31: 29/838,534 32: 2022-05-13

# 54: LABELS

57: The design is for a label substantially as shown in the accompanying presentations. The label is rectangular shaped and has an off-page connector icon positioned on one side of the label proximate an intermediate portion of the label. A closed padlock icon and an opened padlock icon are provided on the short side of the off-page connector icon. The closed and opened padlock icons have first and

second colours, respectively. The off-page connector icon has a third colour which may be the same as one of the first and second colours or may be different from the first and second colours.





Sole figure

Face-on view

21: A2022/01454 22: 2022-11-11 23:

43: 2022-05-13

52: Class 9 24: Part A

71: Eli Lilly and Company

33: US 31: 29/838,528 32: 2022-05-13

# 54: BLANKS FOR BOXES

57: The design is for a blank for a box substantially as shown in the accompanying representations. The blank has an outer rectangular panel, a central rectangular panel, a pair of rectangular panels provided on either side of the central rectangular panel and arranged transverse to the central rectangular panel, an intermediate rectangular panel is provided above the central rectangular panel, and an outer major rectangular panel projects from the intermediate rectangular panel and is arranged transverse to the intermediate rectangular panel. Each of the panels have flaps provided on their ends. Each panel is separated from an adjacent panel by a fold line. Corresponding obround formations are provided on the flaps of the pair of rectangular panels provided on the sides of the central rectangular panel. Corresponding semicircular formations having frangible lines are provided on the flap of the outer major panel and on the outer minor panel.

#### 21: A2022/01455 22: 2022-11-11 23:

- 43: 2022-05-13
- 52: Class 9 24: Part A
- 71: Eli Lilly and Company

33: US 31: 29/838,528 32: 2022-05-13

### 54: BOXES

57: The design is for a box substantially as shown in the accompanying representations. The box has an upper and lower major rectangular panels, and minor rectangular side walls extending peripherally between the upper and lower major rectangular panels.



21: A2022/01456 22: 2022-11-11 23: 43: 2022-05-13 52: Class 9 24: Part A 71: Eli Lilly and Company

33: US 31: 29/838,528 32: 2022-05-13

# 54: BOXES

57: The design is for a box substantially as shown in the accompanying representations. The box has upper and lower major rectangular panels, and minor rectangular side walls extending peripherally between the upper and lower major rectangular panels.



- 21: A2022/01457 22: 2022-11-11 23: 43: 2022-05-13
- +3. 2022-03-13 52. Class 20. 24. F
- 52: Class 20 24: Part A 71: Eli Lilly and Company
- 33: US 31: 29/838,534 32: 2022-05-13

# 54: LABELS

57: The design is for a label substantially as shown in the accompanying presentations. The label has adjacent upper icons of an opened padlock and a closed/locked padlock. The closed padlock incon is in a first colour and the opened padlock icon is in a second colour. Below the padlock icons is provided an enlarged off-page connector icon facing downwardly and occupying at least half the length of the label. The off-page connector icon is in a third colour. Two distinct lines forming an inverted V are provided on the side of the label towards a bottom portion of the label. The two distinct lines have a fourth and fifth colour.





- 21: A2022/01458 22: 2022-11-11 23:
- 43: 2022-05-13
- 52: Class 20 24: Part A
- 71: Eli Lilly and Company
- 33: US 31: 29/838,534 32: 2022-05-13
- 54: LABELS

57: The design is for a label substantially as shown in the accompanying presentations. The label has an enlarged off-page connector icon facing downwardly and occupying at least half the length of the label.

- 21: A2022/01459 22: 2022-11-11 23:
- 43: 2022-05-13
- 52: Class 20 24: Part A
- 71: Eli Lilly and Company
- 33: US 31: 29/838,534 32: 2022-05-13
- 54: LABELS

57: The design is for a label substantially as shown in the accompanying presentations. The label has an enlarged off-page connector icon facing downwardly and occupying at least half the length of the label. The off-page connector icon is in a third colour.



- 21: A2022/01460 22: 2022-11-11 23:
- 43: 2022-05-13
- 52: Class 24 24: Part A
- 71: Eli Lilly and Company

33: US 31: 29/838,534 32: 2022-05-13

# 54: MEDICAL DEVICES

57: The design is for a medical device substantially as shown in the accompanying presentations. The medical device comprises a triangular-shaped stepped base having rounded corners, an upright cylindrical tube and a cap. A centrally located upright member is provided inside the tube. A label is provided on the cylindrical tube. A front portion of the label has adjacent upper icons of an opened padlock and a closed/locked padlock. The closed padlock incon is in a first colour and the opened padlock icon is in a second colour. Below the padlock icons is provided an enlarged off-page connector icon facing downwardly and occupying at least half the length of the label. The off-page connector icon is in a third colour. Two distinct lines forming an inverted V are provided on the side of the label towards a bottom portion of the label. The two distinct lines have a fourth and fifth colour.



21: A2022/01461 22: 2022-11-11 23:

- 43: 2022-05-13
- 52: Class 24 24: Part A
- 71: Eli Lilly and Company
- 33: US 31: 29/838,534 32: 2022-05-13

# 54: MEDICAL DEVICES

57: The design is for a medical device substantially as shown in the accompanying presentations. The medical device comprises a triangular-shaped stepped base having rounded corners, an upright outer cylindrical tube, and a triangular-shaped stepped cap provided at a free end of the tube. A circular member is provided in the center of the cap. A centrally located upright member having a lower cylindrical portion and an intermediate cylindrical portion separated from the lower cylindrical portion by a shoulder is provided inside the tube. An inner cylindrical tube extends upwardly from the intermediate cylindrical portion.



21: A2023/00120 22: 2023-01-26 23: 43: 2024-07-16

52: Class 09 24: Part A

71: CROWN PACKAGING TECHNOLOGY, INC.

33: GB 31: 6221948 32: 2022-07-28

# 54: FULL APERTURE BEVERAGE CAN END

57: The novelty of the design as applied to a beverage can resides in the shape and/or configuration and/or pattern and/or ornamentation substantially as shown in the accompanying drawings, irrespective of the appearance of the upper region of the beverage can. The broken lines are for illustrative purposes only and form no part of the claimed design.



- 21: A2023/00361 22: 2023-03-10 23:
- 43: 2024-08-20
- 52: Class 09 24: Part A
- 71: PARFUMS CHRISTIAN DIOR
- 33: EU 31: 009171705-0001 32: 2022-09-13

#### 54: FLASK

57: The design is applied to a flask. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the flask, substantially as illustrated in the accompanying representation.



21: A2023/00457 22: 2023-04-12 23: 43: 2022-10-13

52: Class 4 24: Part A

71: Colgate-Palmolive Company

33: US 31: 29/856,380 32: 2022-10-13

## 54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement having a handle portion, a bulbous central portion and a waisted neck portion. The central and neck portions are arranged angularly relative to the handle portion. An oval-shaped head portion is fitted to an end of the neck and defines an oval shaped socket at a front side thereof. A rear side of the head portion has a textured surface. The handle portion has a convex front side, and a concave rear side having a lower miniature socket that is surrounded by a series of forwardly curved ridges and downwardly curved ridges. An end region of the handle portion, at the rear side thereof, has a substantially square-round shaped formation. The neck portion has a convex rear side and a concave front side. The front and rear sides of the central portion have a textured surface.



- 21: A2023/00458 22: 2023-04-12 23:
- 43: 2022-10-13
- 52: Class 4 24: Part A
- 71: Colgate-Palmolive Company
- 33: US 31: 29/856,380 32: 2022-10-13
- 54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement having an upper central portion and a lower central portion. The upper central portion has downwardly inclined opposing arms and an upwardly facing arc shaped formation at a front and rear sides thereof. The lower central portion has upwardly inclined opposing arms and downwardly facing arc shaped formations at front and rear sides thereof. An oval shaped bulbous portion is accommodated between the upper and lower central portions.



Three-dimensional view

21: A2023/00736 22: 2023-07-05 23:

43: 2023-03-24

- 52: Class 10 24: Part A
- 71: LVMH Swiss Manufactures SA
- 33: HSIRID(CH) 31: DM/227951 32: 2023-03-24

# 54: WATCHES

57: The design is that of a watch. It is a round chronograph watch with a case with lugs, crown at 3 o'clock and round pushers on the case edge. The case diameter is 42mm. The case lug has a triangleshaped inner bevel. This is a watch with no bezel but with a glassbox. The volume flange follows the curve of the crystal as it rises. The minute track is located on a second, curved inner flange, and descends onto the dial. The indexes follow this curve. The chronograph seconds hand is shaped like a triangle. The chronograph counters are in relief. At 6 o'clock, the dial opens to reveal the movement's flying tourbillon. The case back is open with a crystal, and the watch movement is visible. The oscillating weight of the movement takes the shape of the HEUER logo.



# Figure 1 Three-dimensional view

21: A2023/00865 22: 2023-07-27 23: 43: 2024-08-20 52: Class 12 24: Part A 71: IRIZAR, S. COOP. 33: EU 31: 015011034 32: 2023-02-09

#### 54: BUS

57: The design relates to a BUS. The features of the design for which protection is claimed include the shape and/or configuration of the BUS substantially as illustrated in the accompanying representations.



21: A2023/00896 22: 2023-08-10 23:

43: 2024-07-16

52: Class 22 24: Part A

71: IMZ COLOMBIA, S.A.S.

54: OPEN PIT MINING HOLE SEALING DEVICE

57: The features of the design for which protection is claimed reside in the shape and/or configuration of an open pit mining hole sealing device as shown as in the accompanying representations, irrespective of any colour, images or text applied to the open pit mining hole sealing device.



- 21: A2023/01102 22: 2023-10-11 23: 2023-04-20 43: 2024-08-14
- 52: Class 12 24: Part A

71: KUAT INNOVATIONS LLC

#### **54: UTILITY RACK**

57: The design is applied to a utility rack. The features of the design for which protection is claimed are those of the shape and/or configuration of the utility rack, substantially as illustrated in the accompanying representation. Separations depicted by break lines in sections marked "A" indicate an indeterminate length and any portions between these break lines do not form part of the design and are disclaimed. All other features shown in broken lines do not form part of the design and are disclaimed. Contour lines are provided to indicate the surface contours but do not form part of the design and are design and are disclaimed.



21: A2023/01171 22: 2023-10-27 23: 43: 2024-08-20 52: Class 22 24: Part A 71: HS PRODUKT D.O.O.

33: HR 31: D20230050-2 32: 2023-04-28 54: FIREARM

57: The design is applied to a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Surface shading lines are provided to indicate the surface character but do not form part of the design and are also disclaimed.



21: A2023/01197 22: 2023-11-03 23: 43: 2023-10-17

52: Class 12 24: Part A

71: Omni United (S) PTE Ltd.

33: US 31: 29/905,159 32: 2023-10-17

# 54: TYRES AND TYRE TREADS

57: The design is for a tyre and tyre tread which include a series of long circumferential grooves and ribs centered across a tread surface with sipes positioned on the center tread ribs horizontal and diagonal to the long circumferential grooves around the tyre's circumference. The tyre tread includes angled and horizontal sipe patterns across the tyre shoulders.



21: A2023/01300 22: 2023-12-04 23: 43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0001 32: 2023-06-05

# 54: AUTOMOBILES

57: The design is for an automobile. A front bumper of the automobile has vent openings which are provided on either side of a centrally located opening. A bonnet of the automobile is substantially contiguous with arch-shaped front fenders. A pair of spaced apart elongate bulges are provided on the bonnet and extend rearwardly from a center of the bonnet towards a rear thereof. Vertically arranged headlights are provided at the front of each front fender. A skirt protrudes laterally from a lower edge of each side of the car between the front and rear wheels. A pod shaped windscreen and roof is provided. The roof stretches, in a tapered manner, rearwardly downwardly towards a trunk. A spoiler extends between rear fenders. An elongate light strip is provided along the outer edge of the spoiler. The automobile has a pronounced diffuser.



Figure 6 Three-dimensional view

- 21: A2023/01301 22: 2023-12-04 23:
- 43: 2023-06-05
- 52: Class 12 24: Part A
- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0007 32: 2023-06-05

#### 54: SPOILERS

57: The design is for a spoiler. The spoiler has a body that has a central, flat planar major part. A pair of major and minor plates extend upright on either side of the central part. A curved side portion extends from one side of the spoiler. A flat, planar minor part is provided between the minor plate and an inclined edge of the curved side portion.



Figure 7

Three-dimensional view

21: A2023/01302 22: 2023-12-04 23: 43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft 33: EM(DE) 31: 015023618-0006 32: 2023-06-05 54: SPOILERS

57: The design is for a spoiler of an automobile. The spoiler has a curved, substantially C-shaped portion and inwardly bent curved end portions. A rectangular shaped member protrudes from a central portion of the spoiler.



Three-dimensional view

21: A2023/01303 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0013 32: 2023-06-05

# 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel for an automobile. The body panel includes a body having a front portion and a rear portion. The body has an upper, substantially straight edge, an inwardly curved rear edge, an inclined edge connected to the upper edge and substantially inclined front edge, and a bottom edge. The bottom edge includes a curved portion and a substantially horizontally arranged portion. A ridge portion extends from the curved portion of the bottom edge partly into the front portion. A recessed portion is provided under the ridged portion.



Figure 7

Three-dimensional view

- 21: A2023/01304 22: 2023-12-04 23:
- 43: 2023-06-05
- 52: Class 12 24: Part A
- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0012 32: 2023-06-05

# 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel for an automobile. The body panel has a central major part and a pair of curved side portions. The central major part has a lower, rearwardly inclined part and a curved upper part. Angularly inclined recessed side portions flank a central opening of the curved upper part. The central opening is defined by a pentagon-shaped frame with rounded corners.



Figure 7

Three-dimensional view

# 21: A2023/01305 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0010 32: 2023-06-05

# 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel of an automobile. The body panel includes a having an upper face, a rear face and a pair of opposite planar side walls having inclined edges. The rear face has an upright planar portion and curved side portion. The body is substantially U-shaped and one of its sides has a slanted edge. A lip projects laterally from one of the side walls. A cavity is defined on a front side of the body.



21: A2023/01306 22: 2023-12-04 23: 43: 2023-06-05 52: Class 12 24: Part A 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015023618-0018 32: 2023-06-05
54: BODY PANELS FOR AUTOMOBILES
57: The design is for a body panel of an automobile. The features of the design are illustrated in the overall appearance of the body panel. It is this overall appearance that is particular to the claimed design. The body panel has a rearwardly extending portion that has a centrally located, pentagon shaped rear window. Outer sides of the body panel are recessed. A spoiler extends between upwardly raised rear portions of the body panel. The sides of the body panel have curved edges. A pair of wings extend outwardly from a lower side portion of the body panel.



Three-dimensional view

- 21: A2023/01307 22: 2023-12-04 23:
- 43: 2023-06-05
- 52: Class 12 24: Part A
- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0017 32: 2023-06-05
- 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel of an automobile. The features of the design are illustrated in the overall appearance of the body panel. It is this overall appearance that is particular to the claimed design. The body panel has a substantially upright face that has a perforated pattern. A centrally located member is provided on the face. Inverted Ushaped members protrude at the bottom of the face on either side of the centrally located member. A lip extends on the outer side of each of the inverted Ushaped members. An upper central edge portion of the body panel is upwardly curved and outwardly extending members that protrude rearwardly from the upper edge are provided on either side of the upper central edge portion.



Figure 7

the spoiler. It is this overall appearance that is particular to the claimed design. The spoiler has a generally rectangular body with curved outer and inner edges terminating with pointed ends. The body has planar upper surface and lower surfaces that has ribs arranged in a form of a grid pattern.



Three-dimensional view

21: A2023/01308 22: 2023-12-04 23: 43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0020 32: 2023-06-05 54: SPOILERS

57: The design is for a spoiler. The features of the design are illustrated in the overall appearance of the spoiler. It is this overall appearance that is particular to the claimed design. The spoiler has a generally curved body having a central major portion and curved side minor portions that extend from the central portion. The central portion has a central rectangular member that is flanked by rectangular side members.



Figure 7

Three-dimensional view

21: A2023/01309 22: 2023-12-04 23:
43: 2023-06-05
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015023618-0019 32: 2023-06-05
54: SPOILERS
57: The design is for a spoiler. The features of the design are illustrated in the overall appearance of

Figure 7 Three-dimensional view

# 21: A2023/01310 22: 2023-12-04 23:

- 43: 2023-06-05
- 52: Class 12 24: Part A
- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0023 32: 2023-06-05

# 54: WHEEL RIMS

57: The design is for a wheel rim. The features of the design are illustrated in the overall appearance of the wheel rim. It is this overall appearance that is particular to the claimed design. The wheel rim has a frustoconical central portion. Radially spaced outer members protrude outwardly from a lower peripheral edge of the frustoconical portion. A plurality of radially spaced ribs protrude from an outer edge of each of the outer members.





Figure 7

Three-dimensional view

21: A2023/01312 22: 2023-12-04 23:

43: 2023-06-05

Figure 7

Three-dimensional view

21: A2023/01311 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft 33: EM(DE) 31: 015023618-0022 32: 2023-06-05

# 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel for an automobile. The features of the design are illustrated in the overall appearance of the body panel. It is this overall appearance that is particular to the claimed design. The body panel has a rectangular front major face and an inclined rear face. The front major face has a curved outer edge. A series of spaced apart ribs are provided on an inner surface of the major surface on the sides thereof. 52: Class 12 24: Part A 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft 33: EM(DE) 31: 015023618-0021 32: 2023-06-05 54: BODY PANELS FOR AUTOMOBILES 57: The design is for a body panel for an automobile. The features of the design are illustrated in the overall appearance of the body panel. It is this overall appearance that is particular to the claimed design. The body panel has a generally curved body with well-defined curved wheel arches. A central portion of the body extends rearwardly away from the wheel arches and terminates in a curved edge. Spaces are defined between the sides of the central portion and rear portions of the wheel arches. The central portion has an inwardly recessed portion and raised outer portions.



Figure 7

Three-dimensional view

21: A2023/01313 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft 33: EM(DE) 31: 015023618-0029 32: 2023-06-05

54: REARVIEW MIRRORS

57: The design is for a rearview mirror. The features of the design are illustrated in the overall appearance of the rearview mirror. It is this overall appearance that is particular to the claimed design. The rearview mirror has a body that has a planar upper face that has an end that is shaped as a triangle with a pointed end and an opposite end that is also shaped as a triangle with gently curved edges. A rear face of the rearview mirror has a raised portion that is spaced from a lowered portion. A pattern of spaced apart grooves and ridges is provided on the rear face and a side wall of the raised portion. An opening is provided on the side wall of the raised portion proximate the pattern of grooves and ridges.

Figure 7

Three-dimensional view

21: A2023/01314 22: 2023-12-04 23: 43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0027 32: 2023-06-05

# 54: DOORS FOR AUTOMOBILES

57: The design is for a door of an automobile. The features of the design are illustrated in the overall appearance of the door. It is this overall appearance that is particular to the claimed design. The door has a generally curved profile. A front portion of the door has a central outwardly curved portion. An inclined rectangular-shaped B-pillar with curved edges protrudes upwardly from an upper edge of the door. An inclined lip protrudes below the central portion. A pointed dent is provided on the side of the curved portion. Contour lines are provided between the lip and curved portion as well as between the curved portion and upper edge of the door. A fin protrudes outwardly from an upper portion of the rectangular-shaped B-pillar.



Figure 7

Three-dimensional view

21: A2023/01317 22: 2023-12-04 23:

43: 2024-07-05

52: Class 13. 24: Part A

71: APPLE INC.

33: US 31: 29/877,245 32: 2023-06-04

#### 54: Battery

57: The design relates to a battery. The features of the design are those of shape and/or configuration and/or ornamentation.



Three-dimensional view

21: A2023/01315 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0014 32: 2023-06-05

# 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel for an automobile. The body panel includes a body having a front portion and a rear portion. The body has an upper, substantially straight edge, an inwardly curved rear edge, an inclined edge connected to the upper edge and substantially inclined front edge, and a bottom edge. The bottom edge includes a curved portion and a substantially horizontally arranged portion. A ridge portion extends from the curved portion of the bottom edge partly into the front portion. A recessed portion is provided under the ridged portion.



TOP FRONT PERSPECTIVE VIEW

21: A2023/01318 22: 2023-12-04 23: 43: 2024-07-05 52: Class 14. 24: Part A 71: APPLE INC. 33: US 31: 29/877,247 32: 2023-06-04

# 54: Band

57: The design relates to a band. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



### BOTTOM REAR PERSPECTIVE VIEW

21: A2023/01319 22: 2023-12-04 23:

43: 2024-07-05

- 52: Class 14. 24: Part A
- 71: APPLE INC.

33: US 31: 29/877,258 32: 2023-06-05

54: Strap

57: The design relates to a strap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP FRONT PERSPECTIVE VIEW

21: A2023/01320 22: 2023-12-04 23:
43: 2024-07-05
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/877,258 32: 2023-06-05
54: Strap

57: The design relates to a strap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### BOTTOM REAR PERSPECTIVE VIEW

- 21: A2023/01321 22: 2023-12-04 23:
- 43: 2024-07-05

52: Class 14. 24: Part A

71: APPLE INC.

- 33: US 31: 29/877,254 32: 2023-06-04
- 54: Head-Mounted Display

57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



# TOP FRONT PERSPECTIVE VIEW

21: A2023/01322 22: 2023-12-04 23:

- 43: 2024-07-05
- 52: Class 14. 24: Part A
- 71: APPLE INC.

33: US 31: 29/877,298 32: 2023-06-05

54: Band

57: The design relates to a band. The features of the design are those of shape and/or configuration and/or ornamentation.



21: A2023/01323 22: 2023-12-04 23: 43: 2024-07-05 52: Class 13. 24: Part A 71: APPLE INC.

33: US 31: 29/877,252 32: 2023-06-04

#### 54: Cable

57: The design relates to a cable. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### FRONT PERSPECTIVE VIEW

21: A2023/01324 22: 2023-12-04 23: 43: 2024-07-05 52: Class 13. 24: Part A

- 71: APPLE INC.
- 33: US 31: 29/877,344 32: 2023-06-05

# 54: Cable

57: The design relates to a cable. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2023/01325 22: 2023-12-04 23:

- 43: 2024-07-05
- 52: Class 13. 24: Part A
- 71: APPLE INC.

33: US 31: 29/877,344 32: 2023-06-05

54: Cable

57: The design relates to a cable. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



# FRONT PERSPECTIVE VIEW

21: A2023/01326 22: 2023-12-04 23: 43: 2024-07-05 52: Class 14. 24: Part A 71: APPLE INC.

# 33: US 31: 29/877,232 32: 2023-06-04 **54: Light Seal**

57: The design relates to a light seal. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP FRONT PERSPECTIVE VIEW

21: A2023/01327 22: 2023-12-04 23:

- 43: 2024-07-05
- 52: Class 14. 24: Part A
- 71: APPLE INC.
- 33: US 31: 29/877,232 32: 2023-06-04
- 54: Light Seal

57: The design relates to a light seal. The features of the design are those of shape and/or configuration and/or ornamentation.



- 21: A2023/01328 22: 2023-12-04 23:
- 43: 2024-07-05
- 52: Class 14. 24: Part A
- 71: APPLE INC.
- 33: US 31: 29/877,232 32: 2023-06-04
- 54: Light Seal

57: The design relates to a light seal. The features of the design are those of shape and/or configuration and/or ornamentation.



# TOP FRONT PERSPECTIVE VIEW

- 21: A2023/01329 22: 2023-12-04 23:
- 43: 2024-07-05
- 52: Class 14. 24: Part A
- 71: APPLE INC.
- 33: US 31: 29/877,232 32: 2023-06-04
- 54: Cushion

57: The design relates to cushion. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

# TOP FRONT PERSPECTIVE VIEW



### TOP FRONT PERSPECTIVE VIEW

# 21: A2023/01330 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0031 32: 2023-06-05

#### 54: DOORS FOR AUTOMOBILES

57: The design is for a door of an automobile. The features of the design are illustrated in the overall appearance of the door. It is this overall appearance that is particular to the claimed design. The door has a generally curved profile. A front portion of the door has an outwardly curved central portion. A substantially rectangular window with curved edges is provided next to an inclined rectangular-shaped Bpillar. A fin protrudes outwardly from an upper portion of the rectangular-shaped B-pillar. An inclined lip protrudes below the central portion. A pointed dent is provided on the side of the curved portion. Contour lines are provided between the lip and curved portion as well as between the curved portion and upper edge of the door. A rear portion of the door has a door panel that has an armrest, a speaker and a door handle.



Figure 7

Three-dimensional view

- 21: A2023/01333 22: 2023-12-05 23:
- 43: 2024-07-05

52: Class 14. 24: Part A

- 71: APPLE INC.
- 33: US 31: 29/877,278 32: 2023-06-05
- 54: Strap

57: The design relates to a strap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2023/01334 22: 2023-12-05 23:
43: 2024-07-05
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/877,278 32: 2023-06-05
54: Strap

57: The design relates to a strap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### BOTTOM REAR PERSPECTIVE VIEW

21: A2023/01336 22: 2023-12-05 23:

43: 2024-07-05

- 52: Class 14. 24: Part A
- 71: APPLE INC.
- 33: US 31: 29/877,278 32: 2023-06-05

54: Strap

57: The design relates to a strap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### TOP FRONT PERSPECTIVE VIEW

21: A2023/01340 22: 2023-12-04 23: 43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0008 32: 2023-06-05 54: SPOILERS

57: The design is for a spoiler. The spoiler has a body that has a central, flat planar major part. A pair of major and minor plates extend upright on either

side of the central part. A curved side portion extends from one side of the spoiler. A flat, planar minor part is provided between the minor plate and an inclined edge of the curved side portion.



Figure 7 Three-dimensional view

21: A2023/01341 22: 2023-12-04 23: 43: 2023-06-05

- 52: Class 12 24: Part A
- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0011 32: 2023-06-05
- 54: ROOFS FOR AUTOMOBILES

57: The design is for a roof for an automobile. The roof includes a central arc shaped spine portion that is connected to a front part and rear part of the roof. The rear part has inwardly curved edges that terminate in curved pointed ends and a central window portion. An elongate rectangular member is provided in the central window portion. A recessed rectangular portion is provided on one end of the rectangular member. A pair of elongate formations extend from a curved edge of the window portion and terminate proximate the recessed rectangular portion. The front part includes an inclined screen with curved sides.



Figure 7

Three-dimensional view

21: A2023/01342 22: 2023-12-04 23:

- 43: 2023-06-05
- 52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0009 32: 2023-06-05

# 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel of an automobile. The body panel includes a body having an upper face, a rear face and a pair of opposite planar side walls having inclined edges. The rear face has an upright planar portion and curved side portion. The body is substantially U-shaped and one of its sides has a slanted edge. A lip projects laterally from one of the side walls. A cavity is defined on a front side of the body.



- 21: A2023/01343 22: 2023-12-04 23:
- 43: 2023-06-05
- 52: Class 12 24: Part A
- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0016 32: 2023-06-05

#### 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel of an automobile. The features of the design are illustrated in the overall appearance of the body panel. It is this overall appearance that is particular to the claimed design. The body panel has front and rear faces, a base, and a side wall that is substantially upright and extends between the front and rear faces. An upper edge of the front face is curved and terminates in a pointed tip. A curved member extends from a bottom portion of the body. A series of spaced apart ribs are provided along an inner portion of the base.



Figure 7

Three-dimensional view

- 21: A2023/01344 22: 2023-12-04 23:
- 43: 2023-06-05
- 52: Class 12 24: Part A
- 71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
- 33: EM(DE) 31: 015023618-0015 32: 2023-06-05

#### 54: BODY PANELS FOR AUTOMOBILES

57: The design is for a body panel for an automobile. The body panel includes a body a major panel that has a front planar portion and a rear portion, and a side wall that is substantially transverse to the major panel. The body has a curved upper edge that terminates in a pointed end, a pair of opposite side edges, and a bent bottom edge that has a minor edge of the side wall and a major edge of the major panel. An upright plate protrudes from the sidewall. A plurality of spaced apart vertically arranged slats occupy a major portion of the rear portion.





Figure 7

Three-dimensional view

21: A2023/01345 22: 2023-12-04 23: 43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0024 32: 2023-06-05

#### 54: WHEEL RIMS

57: The design is for a wheel rim. The features of the design are illustrated in the overall appearance of the wheel rim. It is this overall appearance that is particular to the claimed design. The wheel rim has a frustoconical central portion at a front face thereof. Radially spaced outer members extend between a lower peripheral edge of the frustoconical portion and a front rim provided around an edge of the front face. A plurality of radially spaced downwardly protruding ribs extend between an inner edge of the front rim and outer edges of each of the outer members. Radially spaced apart trapezium-shaped openings are provided between the frustoconical portion and the front rim. A barrel extends between the front rim and a rear rim.

Figure 7

Three-dimensional view

#### 21: A2023/01346 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0030 32: 2023-06-05

# 54: DOORS FOR AUTOMOBILES

57: The design is for a door of an automobile. The features of the design are illustrated in the overall appearance of the door. It is this overall appearance that is particular to the claimed design. The door has a generally curved profile. A front portion of the door has an outwardly curved central portion. A substantially rectangular window with curved edges is provided next to an inclined rectangular-shaped Bpillar. A fin protrudes outwardly from an upper portion of the rectangular-shaped B-pillar. An inclined lip protrudes below the central portion. A pointed dent is provided on the side of the curved portion. Contour lines are provided between the lip and curved portion as well as between the curved portion and upper edge of the door. A rear portion of the door has a door panel that has an armrest, a speaker and a door handle.





Three-dimensional view

21: A2023/01347 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft 33: EM(DE) 31: 015023618-0028 32: 2023-06-05

# 54: REARVIEW MIRRORS

57: The design is for a rearview mirror. The features of the design are illustrated in the overall appearance of the rearview mirror. It is this overall appearance that is particular to the claimed design. The rearview mirror has a body that has a planar upper face that has one end that is shaped as a triangle with a pointed end and an opposite end that is also shaped as a triangle with gently curved edges. A rear face of the rearview mirror has a raised portion that is spaced from a lowered portion. A pattern of spaced apart grooves and ridges is provided on the rear face and a side wall of the raised portion. An opening is provided on the side wall of the raised portion proximate the pattern of grooves and ridges.



21: A2023/01348 22: 2023-12-04 23:

- 43: 2023-06-05
- 52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0026 32: 2023-06-05

# 54: DOORS FOR AUTOMOBILES

57: The design is for a door of an automobile. The features of the design are illustrated in the overall appearance of the door. It is this overall appearance that is particular to the claimed design. The door has a generally curved profile. A front portion of the door has a central outwardly curved portion. An inclined rectangular-shaped B-pillar with curved edges protrudes upwardly from an upper edge of the door. An inclined lip protrudes below the central portion. A pointed dent is provided on the side of the curved portion. Contour lines are provided between the lip and curved portion as well as between the curved portion and upper edge of the door. A fin protrudes outwardly from an upper portion of the rectangular-shaped B-pillar.





Figure 7

Three-dimensional view

21: A2023/01349 22: 2023-12-04 23:

43: 2023-06-05

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft

33: EM(DE) 31: 015023618-0025 32: 2023-06-05 54: WHEEL RIMS

57: The design is for a wheel rim. The features of the design are illustrated in the overall appearance of the wheel rim. It is this overall appearance that is particular to the claimed design. The wheel rim has a central bore defining a central opening. Radially spaced apart spokes extend between the central bore and a front rim. Large radially spaced apart trapezium-shaped openings are provided between the central bore and the front rim. Smaller radially spaced apart trapezium-shaped openings which are located between the larger openings and the central opening are defined on each of the spokes. A barrel extends between the front rim and a rear rim.

Figure 7

Three-dimensional view

21: A2023/01350 22: 2023-12-06 23:

- 43: 2023-08-29
- 52: Class 2 24: Part A
- 71: Skechers U.S.A., Inc. II
- 33: US 31: 29/911.130 32: 2023-08-29

# 54: FOOTWEAR

57: The design is for footwear and particularly for a sole thereof. Sides of the sole define a series of fine ornamental slanted lines which develop into concentric lines at a rear of the sole. A midfoot of the sole defines prominent arching lines, particularly visible in side and bottom views. The midfoot divides the sole into a forefoot portion which defines a series of deep oblique grooves and a heal portion which defines a series of deep upright grooves. An oval formation is provided on each side of the heal portion above and abutting the slanted lines. A diamond formation is provided on an outer side of the forefoot portion spaced above the slanted lines.


21: A2023/01351 22: 2023-12-06 23:
43: 2023-08-29
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/911,131 32: 2023-08-29
54: FOOTWEAR

57: The design is for footwear and particularly for a sole thereof. The sole has a prominent midfoot which defines distinct forefoot and heel portions either side. A front of the forefoot portion and sides and a rear or the heel portion define medial/lateral tread lines. Lug patterns are provided between the forefoot and heel portions. Triangular and diamond shapes are provided along the lugs in the forefoot and heel portions. Slanted lines are provided in an arch region of the midfoot.



- 21: A2023/01354 22: 2023-12-08 23:
- 43: 2024-07-03
- 52: Class 14 24: Part A
- 71: SONY INTERACTIVE ENTERTAINMENT INC.
- 33: JP 31: 2023-012875 32: 2023-06-23
- 54: COVER FOR ELECTRONIC DEVICE

57: The design is applied to a cover for an electronic device and is shown in perspective view in the drawing showing the overall appearance thereof.



- 21: A2023/01355 22: 2023-12-08 23:
- 43: 2024-07-03
- 52: Class 14 24: Part A
- 71: SONY INTERACTIVE ENTERTAINMENT INC.
- 33: JP 31: 2023- 012877 32: 2023-06-23
- 54: COVER FOR ELECTRONIC DEVICE

57: The design is applied to a cover for an electronic device and is shown in perspective view in the drawing showing the overall appearance thereof.



21: A2023/01356 22: 2023-12-08 23: 43: 2024-07-03

- 52: Class 14 24: Part A
- 71: SONY INTERACTIVE ENTERTAINMENT INC.
- 33: JP 31: 2023-012876 32: 2023-06-23
- **54: COVER FOR ELECTRONIC DEVICE**

57: The design is applied to a cover for an electronic device and is shown in perspective view in the drawing showing the overall appearance thereof.



21: A2023/01359 22: 2023-12-08 23:
43: 2024-07-09
52: 10 24: Part A
71: SHISHIGAS ENERGY (PTY) LTD.
54: WEIGHING SCALES
57: The design is for a weighing scale substantially

as illustrated in the drawings.



Three-dimensional view from top

21: A2023/01362 22: 2023-12-11 23: 43: 2023-08-21

- 52: Class 2 24: Part A
- 71: Skechers U.S.A., Inc. II
- 33: US 31: 29/910,509 32: 2023-08-21

#### 54: FOOTWEAR

57: The design is for an article of footwear. The article has an outer overlay extending from a heel

portion to a midfoot, having a generally Y-shaped design. A collar ankle section is integrated into the overlay and includes a rear section which projects upwardly and rearwardly from the overly with a concave curvature.



- 21: A2023/01363 22: 2023-12-11 23:
- 43: 2023-08-21
- 52: Class 2 24: Part A
- 71: Skechers U.S.A., Inc. II
- 33: US 31: 29/910,514 32: 2023-08-21
- 54: FOOTWEAR

57: The design is for an article of footwear. The article has an outer overlay extending from a heel portion to a midfoot portion, having a generally cross-shaped design. A collar ankle section is integrated with the overlay and includes a rear section which projects upwardly and rearwardly from the overly with a concave curvature.





#### PERSPECTIVE VIEW

21: A2023/01370 22: 2023-12-12 23: 43: 2024-07-05

52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0023554 32: 2023-06-20

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### PERSPECTIVE VIEW

- 21: A2023/01371 22: 2023-12-12 23:
- 43: 2024-07-05
- 52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

- 33: KR 31: 30-2023-0023556 32: 2023-06-20
- 54: Speaker with Battery Pack

57: The design relates to a speaker with battery pack. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2023/01369 22: 2023-12-12 23: 43: 2024-07-05 52: Class 14. 24: Part A 71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0023550 32: 2023-06-20

#### 54: Speaker with Battery Pack

57: The design relates to a speaker with battery pack. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2023/01372 22: 2023-12-12 23:

- 43: 2024-07-05
- 52: Class 14. 24: Part A
- 71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0023559 32: 2023-06-20

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### PERSPECTIVE VIEW

21: A2023/01373 22: 2023-12-12 23: 43: 2024-07-05 52: Class 14. 24: Part A

- 71: LG ELECTRONICS INC.
- 33: KR 31: 30-2023-0023563 32: 2023-06-20

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

- 21: A2023/01374 22: 2023-12-12 23:
- 43: 2024-07-05
- 52: Class 14. 24: Part A
- 71: LG ELECTRONICS INC.
- 33: KR 31: 30-2023-0023564 32: 2023-06-20
- 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

- 21: A2023/01375 22: 2023-12-12 23:
- 43: 2024-07-03
- 52: Class 14. 24: Part A
- 71: LG ELECTRONICS INC.
- 33: KR 31: 30-2023-0023754 32: 2023-06-21

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### PERSPECTIVE VIEW

21: A2023/01376 22: 2023-12-12 23:

43: 2024-07-03

52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0023758 32: 2023-06-21

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



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#### PERSPECTIVE VIEW

21: A2023/01377 22: 2023-12-12 23: 43: 2024-07-03 52: Class 14. 24: Part A 71: LG ELECTRONICS INC. 33: KR 31: 30-2023-0024082 32: 2023-06-22 54: Television Receiver 57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



## FRONT PERSPECTIVE VIEW FOLDED CONFIGURATION

- 21: A2023/01378 22: 2023-12-12 23:
- 43: 2024-07-03
- 52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0024084 32: 2023-06-22

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



## FRONT PERSPECTIVE VIEW HORIZONTAL CONFIGURATION

21: A2023/01379 22: 2023-12-12 23: 43: 2024-07-03

52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0024085 32: 2023-06-22

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### FRONT PERSPECTIVE VIEW

21: A2023/01380 22: 2023-12-12 23:

- 43: 2024-07-03
- 52: Class 14. 24: Part A
- 71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0024207 32: 2023-06-23

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



43: 2024-07-03

52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0024204 32: 2023-06-23

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### PERSPECTIVE VIEW OPEN CONFIGURATION

21: A2023/01382 22: 2023-12-12 23:

- 43: 2024-07-03
- 52: Class 14. 24: Part A
- 71: LG ELECTRONICS INC.
- 33: KR 31: 30-2023-0024049 32: 2023-06-22
- 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

#### PERSPECTIVE VIEW CLOSED CONFIGURATION

21: A2023/01381 22: 2023-12-12 23:



#### FRONT PERSPECTIVE VIEW FOLDED CONFIGURATION

21: A2023/01383 22: 2023-12-12 23:

43: 2024-07-03

52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0024208 32: 2023-06-23

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### PERSPECTIVE VIEW

Second Second

21: A2023/01384 22: 2023-12-12 23: 43: 2024-07-03 52: Class 14. 24: Part A 71: LG ELECTRONICS INC.

#### 33: KR 31: 30-2023-0024211 32: 2023-06-23

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### PERSPECTIVE VIEW

- 21: A2023/01385 22: 2023-12-12 23:
- 43: 2024-07-03
- 52: Class 14. 24: Part A

71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0024213 32: 2023-06-23

#### 54: Television Receiver

57: The design relates to a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW FIRST INTERMEDIATE CONFIGURATION

21: A2023/01386 22: 2023-12-12 23:

43: 2024-07-03

52: Class 14. 24: Part A 71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0025341 32: 2023-06-30

**54:** Supporting Arm for a Television Receiver 57: The design relates to a supporting arm for a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW FIRST EXTENDED CONFIGURATION

- 21: A2023/01387 22: 2023-12-12 23:
- 43: 2024-07-03
- 52: Class 14. 24: Part A
- 71: LG ELECTRONICS INC.

33: KR 31: 30-2023-0025346 32: 2023-06-30

**54:** Supporting Arm for a Television Receiver 57: The design relates to a supporting arm for a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### FRONT PERSPECTIVE VIEW FIRST EXTENDED CONFIGURATION

21: A2023/01388 22: 2023-12-12 23:

- 43: 2024-07-03
- 52: Class 3. 24: Part A
- 71: LG ELECTRONICS INC.
- 33: KR 31: 30-2023-0024044 32: 2023-06-22
- 54: Case for a Television Receiver

57: The design relates to a case for a television receiver. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### PERSPECTIVE VIEW

#### 21: A2023/01402 22: 2023-12-13 23:

- 43: 2024-07-03
- 52: Class 20 24: Part A
- 71: IMPACT RETAIL DISPLAY (PTY) LTD

#### 54: COLOUR WALL

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a colour wall as shown in the accompanying representations, irrespective of the broken lines and irrespective of any colour, images or text applied to the colour wall.



- 21: A2023/01403 22: 2023-12-13 23:
- 43: 2024-07-03
- 52: Class 20 24: Part A
- 71: IMPACT RETAIL DISPLAY (PTY) LTD
- 54: CARD HOLDER

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a card holder as shown in the accompanying representations.



21: A2023/01404 22: 2023-12-13 23: 43: 2024-07-03 52: Class 20 24: Part A 71: IMPACT RETAIL DISPLAY (PTY) LTD

#### 54: COLOUR BLOCK

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a colour block as shown in the accompanying representations.



- 21: A2023/01405 22: 2023-12-13 23:
- 43: 2024-07-03
- 52: Class 24 24: Part A
- 71: IMPULSE BIOMEDICAL (PTY) LTD
- **54: AN AUTOINJECTOR**

57: The design is applied to an autoinjector. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the autoinjector, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2023/01425 22: 2023-12-14 23: 43: 2024-07-05 52: Class 7. 24: Part A

#### 71: YETI COOLERS, LLC

33: US 31: 29/894,798 32: 2023-06-14 **54: Mug** 

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP REAR PERSPECTIVE VIEW

21: A2023/01426 22: 2023-12-14 23: 43: 2024-07-05 52: Class 7. 24: Part A 71: YETI COOLERS, LLC 33: US 31: 29/894,798 32: 2023-06-14 **54: Mug** 

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.

43: 2024-07-05

52: Class 7. 24: Part A

71: YETI COOLERS, LLC

33: US 31: 29/894,907 32: 2023-06-15

#### 54: Mug

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP FRONT LEFT PERSPECTIVE VIEW OF A FIRST EMBODIMENT

- 21: A2023/01428 22: 2023-12-14 23:
- 43: 2024-07-05
- 52: Class 7. 24: Part A
- 71: GOZNEY GROUP LIMITED
- 33: EM 31: 015025012 32: 2023-06-16
- 54: Oven

57: The design relates to an oven. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



#### TOP REAR PERSPECTIVE VIEW

21: A2023/01427 22: 2023-12-14 23:



#### PERSPECTIVE VIEW

21: A2023/01429 22: 2023-12-14 23: 43: 2024-07-05 52: Class 7. 24: Part A 71: YETI COOLERS, LLC 33: US 31: 29/894799 32: 2023-06-14 **54: Mug** 

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP FRONT LEFT PERSPECTIVE VIEW

21: A2023/01431 22: 2023-12-14 23: 43: 2024-07-03 52: Class 7. 24: Part A 71: YETI COOLERS, LLC 33: US 31: 29/894799 32: 2023-06-14 **54: Mug**  57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP FRONT LEFT PERSPECTIVE VIEW

- 21: A2023/01432 22: 2023-12-14 23:
- 43: 2024-07-03
- 52: Class 7. 24: Part A
- 71: YETI COOLERS, LLC
- 33: US 31: 29/894,805 32: 2023-06-14

#### 54: Mug

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP REAR PERSPECTIVE VIEW

21: A2023/01433 22: 2023-12-14 23: 43: 2024-07-03 52: Class 7. 24: Part A

#### 71: YETI COOLERS, LLC

33: US 31: 29/894,805 32: 2023-06-14 **54: Mug** 

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP REAR PERSPECTIVE VIEW OF A FIRST EMBODIMENT

21: A2023/01434 22: 2023-12-14 23:

43: 2024-07-03

52: Class 7. 24: Part A

71: YETI COOLERS, LLC

33: US 31: 29/894,808 32: 2023-06-14

#### 54: Mug

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



21: A2023/01435 22: 2023-12-14 23:

- 43: 2024-07-03
- 52: Class 7. 24: Part A

71: YETI COOLERS, LLC

33: US 31: 29/894,808 32: 2023-06-14

#### 54: Mug

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



#### TOP FRONT LEFT PERSPECTIVE VIEW OF A FIRST EMBODIMENT

21: A2023/01436 22: 2023-12-14 23:

- 43: 2024-07-03
- 52: Class 7. 24: Part A
- 71: YETI COOLERS, LLC
- 33: US 31: 29/894,904 32: 2023-06-15

57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.

TOP FRONT LEFT PERSPECTIVE VIEW

<sup>54:</sup> Mug



#### TOP FRONT LEFT PERSPECTIVE VIEW

21: A2023/01442 22: 2023-12-19 23:

- 43: 2023-06-28
- 52: Class 31 24: Part A
- 71: La Marzocco S.r.l.
- 33: EM(IT) 31: 015026128-0001 32: 2023-06-28

#### **54: COFFEE GRINDERS**

57: The design is for a coffee grinder. The grinder has a body, a tray, and a hopper. The body has an inverted L-shaped profile when seen in side view, with a horizontal top section and a vertical upright section supporting the top section. The tray is flat and projects forwardly from the bottom of the upright section. The hopper is somewhat frustoconical but has an expanded rearward area and a matching lid. A locking lever is provided at a front underneath the hopper. A display and buttons are provided on a front face of the top section. A slotted dispensing outlet is provided underneath the top section vertically aligned with the hopper.



Three-dimensional view

- 21: A2024/00003 22: 2024-01-02 23:
- 43: 2024-08-13
- 52: Class 12 24: Part A
- 71: OLA ELECTRIC MOBILITY PRIVATE LIMITED
- 33: IN 31: 389217-001 32: 2023-06-29
- 54: MOTORCYCLE

57: The design is applied to a motorcycle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the motorcycle, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2024/00004 22: 2024-01-02 23: 43: 2024-08-13 52: Class 12 24: Part A 71: OLA ELECTRIC MOBILITY PRIVATE LIMITED

33: IN 31: 389220-001 32: 2023-06-29

#### 54: MOTORCYCLE

57: The design is applied to a motorcycle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the motorcycle, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2024/00005 22: 2024-01-02 23: 43: 2024-08-13 52: Class 12 24: Part A 71: OLA ELECTRIC MOBILITY PRIVATE LIMITED 33: IN 31: 389221-001 32: 2023-06-29 54: MOTORCYCLE

57: The design is applied to a motorcycle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the motorcycle, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: A2024/00036 22: 2024-01-12 23:
- 43: 2024-08-14
- 52: Class 12 24: Part A
- 71: CLEARVIEW TOWING MIRRORS PTY LTD
- 33: AU 31: 202314549 32: 2023-07-13

**54: MOUNTING BASE FOR A VEHICLE MIRROR** 57: The design is applied to a mounting base for a vehicle mirror. The features of the design for which protection is claimed are those of the shape and/or configuration of the mounting base, substantially as illustrated in the accompanying representation.



21: A2024/00038 22: 2024-01-12 23: 43: 2024-08-13

#### 52: Class 14 24: Part A

71: ZHUHAI PANTUM ELECTRONICS CO., LTD. 33: CN 31: 2023307704778 32: 2023-11-24

#### **54: PROCESSING CARTRIDGE**

57: The design is applied to a processing cartridge. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the processing cartridge, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2024/00052 22: 2024-01-17 23: 43: 2024-08-13

- 52: Class 15 24: Part A
- 71: WATSON-MARLOW LIMITED
- 33: EU 31: 015030859 32: 2023-08-10 54: PUMP

57: The design is applied to a pump. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pump, substantially as illustrated in the accompanying representation.



- 21: A2024/00053 22: 2024-01-17 23:
- 43: 2024-08-13
- 52: Class 15 24: Part A
- 71: WATSON-MARLOW LIMITED
- 33: EU 31: 015030859-0002 32: 2023-08-10
- 54: PUMP

57: The design is applied to a pump. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pump, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: A2024/00054 22: 2024-01-17 23:
- 43: 2024-08-13
- 52: Class 15 24: Part A
- 71: WATSON-MARLOW LIMITED
- 33: EU 31: 015030859-0003 32: 2023-08-10
- 54: PUMP

57: The design is applied to a pump. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pump, substantially as illustrated in the accompanying representation.



21: A2024/00082 22: 2024-01-24 23: 43: 2024-08-13 52: Class 22 24: Part A 71: SPRINGFIELD, INC. 33: US 31: 29/880,491 32: 2023-07-24

#### 54: FIREARM

57: The design is applied to a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Contour lines and surface shading lines are provided to indicate the surface character and contours but do not form part of the design and are disclaimed.



21: A2024/00083 22: 2024-01-24 23: 43: 2024-08-14 52: Class 22 24: Part A 71: SPRINGFIELD, INC. 33: US 31: 29/880,493 32: 2023-07-24 54: FIREARM 57: The design is applied to a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Contour lines and surface shading lines are provided to indicate the surface character and contours but do not form part of the design and are disclaimed.



- 21: A2024/00084 22: 2024-01-24 23:
- 43: 2024-08-14
- 52: Class 22 24: Part A
- 71: SPRINGFIELD, INC.
- 33: US 31: 29/880,493 32: 2023-07-24

#### 54: TRIGGER GUARD

57: The design is applied to a trigger guard. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the trigger guard, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



- 21: A2024/00085 22: 2024-01-24 23:
- 43: 2024-08-14
- 52: Class 22 24: Part A
- 71: SPRINGFIELD, INC.
- 33: US 31: 29/880,493 32: 2023-07-24
- **54: MAGAZINE HOUSING**

57: The design is applied to a magazine housing. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the magazine housing, substantially as illustrated in the accompanying

representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2024/00086 22: 2024-01-24 23: 43: 2024-08-14 52: Class 22 24: Part A 71: SPRINGFIELD, INC.

33: US 31: 29/880,493 32: 2023-07-24

#### **54: MAGAZINE HOUSING**

57: The design is applied to a magazine housing. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the magazine housing, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2024/00107 22: 2024-01-26 23: 43: 2024-08-13

52: Class 23 24: Part A

71: AMIAD WATER SYSTEMS LTD.

#### **54: WATER FILTER**

57: The design is applied to a water filter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the water filter, substantially as illustrated in the accompanying representation.



- 21: A2024/00118 22: 2024-01-02 23:
- 43: 2024-08-13
- 52: Class 14 24: Part A
- 71: ZHUHAI PANTUM ELECTRONICS CO., LTD.
- 33: CN 31: 2023304298861 32: 2023-07-10
- 54: PROCESSING CARTRIDGE

57: The design is applied to a processing cartridge. The features of the design for which protection is claimed are those of the shape and/or configuration of the processing cartridge, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2024/00514 22: 2024-06-04 23:

- 43: 2024-07-03
- 52: Class 2 24: Part A
- 71: EVYAP HİJYENİK ÜRÜNLER SANAYİ VE TİCARET ANONİM ŞİRKETİ

33: TR 31: 2023/012961 32: 2023-12-14
54: ABSORBENT CORE OF BABY DIAPER
57: The design relates to a Absorbent core of baby diaper. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2024/00527 22: 2024-06-05 23: 43: 2024-07-03

52: Class 2 24: Part A

71: EVYAP HİJYENİK ÜRÜNLER SANAYİ VE TİCARET ANONİM ŞİRKETİ

33: TR 31: 2023/012961 32: 2023-12-14

54: ABSORBENT CORE OF BABY DIAPER

57: The design relates to a Absorbent core of baby diaper. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2024/00528 22: 2024-06-05 23: 43: 2024-07-03 52: Class 2 24: Part A 71: EVYAP HİJYENİK ÜRÜNLER SANAYİ VE TİCARET ANONİM ŞİRKETİ

33: TR 31: 2023/012961 32: 2023-12-14
54: ABSORBENT CORE OF BABY DIAPER
57: The design relates to a Absorbent core of baby diaper. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2024/00533 22: 2024-06-06 23:

#### 43: 2024-08-14

52: Class 13 24: Part A 71: HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. 33: CN 31: 202430209978.3 32: 2024-04-15

#### **54: PHOTOVOLTAIC INVERTER**

57: The design is to be applied to a photovoltaic inverter. The features for which protection is claimed are those of shape and/or pattern and/or configuration and/or ornamentation, substantially as shown in the representations.



21: F2019/01761 22: 2019-12-05 23: 43: 2024-08-20

- 52: Class 25 24: Part F
- **71: SIDNEY JOHANNES**

### **54: ILLUMINATED STAGE**

57: The features for which protection is claimed reside in the shape and/or configuration and/or ornamentation as applied to an illuminated stage, substantially as shown in the accompanying representation, irrespective of the appearance of parts shown in broken lines.



Fig. 1 Front View of illuminated stage

- 21: F2020/01366 22: 2020-10-15 23:
- 43: 2020-04-16
- 52: Class 8 24: Part F
- 71: Gripple Limited
- 33: GB 31: 007809983 0004 32: 2020-04-16
- 33: EM(GB) 31: 007809983-0002 32: 2020-04-16

#### 54: BRACKETS

57: The design is for a bracket comprising a pair of elongate flat tracks that are each received within a recess of a rectangular bar element such that the bar element is arranged transversely to the tracks. Each track has a curved first end that threads through the recess and a second end which is bent into an L-shape and defines a round recess. Each track defines a plurality of thin transverse recesses. The bar element includes a top wall, a bottom wall and a side wall. Each wall defines a plurality of spaced-apart rectangular recesses.



21: F2022/00529 22: 2022-05-13 23:

43: 2024-08-20

- 52: Class 23 24: Part F
- 71: Zip Heaters (Aust) Pty Ltd

#### 54: TAP

57: The design relates to a tap. The features of the design are those of shape and/or configuration and/or ornamentation.



21: F2022/01642 22: 2022-12-13 23: 2022-06-13

43: 2024-08-15

52: Class 20 24: Part F

71: THREE NIGHT OWLS (PTY) LTD

#### 54: A HANG TAB

57: The novelty of the design resides in the shape and/or configuration of an aperture formed in a hang tab substantially as shown in the accompanying representation wherein the shape and/or configuration of the outer dimensions of the hang tab are shown by way of example only and do not form part of the design



43: 2024-07-22

52: Class 08 24: Part F

71: Innovative Mining Products (Pty) Ltd

54: RESIN ANCHORED ROCK SUPPORT

57: A novel design to the shape or configuration of a resin anchored rock support.



- 21: F2023/00897 22: 2023-08-10 23:
- 43: 2024-07-16
- 52: Class 22 24: Part F
- 71: IMZ COLOMBIA, S.A.S.
- 54: OPEN PIT MINING HOLE SEALING DEVICE

57: The features of the design for which protection is claimed reside in the shape and/or configuration of an open pit mining hole sealing device as shown as in the accompanying representations, irrespective of any colour, images or text applied to the open pit mining hole sealing device.

21: F2023/00599 22: 2023-05-19 23:



- 21: F2023/00959 22: 2023-09-01 23: 43: 2024-07-16
- 52: Class 09 24: Part F
- 71: TEQAL (PTY) LTD

#### 54: A ROLL-ON CONTAINER AND BALL

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a roll-on container and ball as shown in the accompanying representations, irrespective of the cap shown in broken lines and irrespective of any colour, images or text applied to the roll-on container and ball.



on ball.

21: F2023/01024 22: 2023-09-21 23: 43: 2024-08-08 52: Class 04 24: Part F 71: POOL ROBOTICS SA PROPRIETY LIMITED 54: CONTAINER FOR LIQUID OR GRANULAR SUBSTANCES 57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a Container for liquid or granular substances as shown in the accompanying representations, irrespective of the features shown in broken lines.



PERSPECTIVE VIEW

- 21: F2023/01066 22: 2023-10-02 23:
- 43: 2024-08-20
- 52: Class 23 24: Part F
- 71: GEBERIT INTERNATIONAL AG
- 33: IB 31: 138923-12 32: 2023-09-28

#### **54: PIPE ELEMENT**

57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern the pipe element, substantially as illustrated in the accompanying representation. Features outside of the region bounded by the broken lines do not form part of the design and are disclaimed. No protection is claimed for the grey colour shown in the representations.



21: F2023/01178 22: 2023-10-30 23:
43: 2024-08-20
52: Class 08 24: Part F
71: MACNAUGHT PTY LTD
33: AU 31: 202316065 32: 2023-09-12
54: REEL HOUSING FOR A HOSE OR CABLE
57: The design is applied to a reel housing for a hose or cable. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the reel housing for a

hose or cable, substantially as illustrated in the

accompanying representation.



- 21: F2023/01224 22: 2023-11-14 23:
- 43: 2024-07-16
- 52: Class 03 24: Part F
- 71: SHUPING, Busang Meldrick

#### 54: COVER FOR AN ELECTRONIC REMOTE-CONTROL

57: The feature of the design for which protection is claimed resides in the shape of a cover for an electronic remote-control, substantially as shown in the accompanying representations.



- 21: F2023/01299 22: 2023-12-01 23:
- 43: 2023-12-01
- 52: Class 13 24: Part F
- 71: NIEMAN, Wilfred, NIEMAN, Renko
- 54: AN ELECTRICAL PLUG BODY

57: The design is for an electrical plug body, from which a rewireable plug can be formed. The plug body is provided in two separable pieces, namely a back piece and a front piece. The front piece defines apertures to accommodate prongs of the plug (e.g., a South African Type M plug). Electrical innards of the plug may be provided inside the two pieces. A bottom of the plug body defines an opening to accommodate an electrical cable to a load (e.g., a light or appliance). The plug body defines a socket at a back thereof, the socket being configured to accommodate a Type C or Type N plug. The plug body may be rewireable.



21: F2023/01358 22: 2023-12-08 23:

- 43: 2023-12-08
- 52: Class 10 24: Part F
- 71: SHISHIGAS ENERGY (PTY) LTD.

#### 54: WEIGHING SCALES

57: The design is for a weighing scale substantially as illustrated in the drawings.



Three-dimensional view from top

21: F2023/01365 22: 2023-12-12 23:

- 43: 2023-12-12
- 52: Class 2 24: Part F
- 71: MAMAS TOUCH SLEEPING AIDS (PTY) LTD.
- 54: WEARABLE SLEEPING GARMENT

57: The design is applied to a wearable sleeping garment, and in particular to a wearable sleeping garment comprising front and rear portions that are each fitted with a weighted arrangement in the form of a quilted panel that defines a plurality of pockets. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a wearable

sleeping garment, substantially as illustrated in the accompanying representations.



Front view

21: F2023/01366 22: 2023-12-12 23:

- 43: 2023-12-12
- 52: Class 2 24: Part F
- 71: MAMAS TOUCH SLEEPING AIDS (PTY) LTD.
- 54: WEARABLE SLEEPING GARMENT

57: The design is applied to a wearable sleeping garment, and in particular to a wearable sleeping garment comprising front and rear portions that are each fitted with a weighted arrangement. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a wearable sleeping garment, substantially as illustrated in the accompanying representations.



Front view

21: F2023/01367 22: 2023-12-12 23:

- 43: 2023-12-12
- 52: Class 2 24: Part F

71: MAMAS TOUCH SLEEPING AIDS (PTY) LTD.

#### 54: WEARABLE SLEEPING GARMENT

57: The design is applied to a wearable sleeping garment, and in particular to a wearable sleeping garment comprising front and rear portions that are each fitted with a weighted arrangement in the form of a quilted panel that defines a plurality of pockets. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a wearable sleeping garment, substantially as illustrated in the accompanying representations.



21: F2023/01368 22: 2023-12-12 23:

- 43: 2023-12-12
- 52: Class 2 24: Part F

71: MAMAS TOUCH SLEEPING AIDS (PTY) LTD.

54: WEARABLE SLEEPING GARMENT

57: The design is applied to a wearable sleeping garment, and in particular to a wearable sleeping garment comprising front and rear portions that are each fitted with a weighted arrangement. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a wearable sleeping garment, substantially as illustrated in the accompanying representations.



21: F2023/01389 22: 2023-12-12 23: 43: 2023-12-12

52: Class 23 24: Part F

71: C F W INDUSTRIES PROPRIETARY LIMITED 54: Fan Blades

57: The design is applied to a fan blade substantially as shown in the accompanying representations, the

aspects shown in dashed broken lines in the representations being optional and not forming an essential part of the design. The fan blade is of variable length and has similar leading and trailing edge profiles which render the fan blade reversible.



Three-dimensional view from outer end

21: F2023/01390 22: 2023-12-12 23:

- 43: 2023-12-12
- 52: Class 23 24: Part F
- 71: C F W INDUSTRIES PROPRIETARY LIMITED

#### 54: Fan Blades

57: The design is applied to a fan blade substantially as shown in the accompanying representations, the aspects shown in broken lines in the representations being optional and not forming an essential part of the design. The fan blade is of variable length and has similar leading and trailing edge profiles which render the fan blade reversible.



Three-dimensional view from outer end

21: F2023/01447 22: 2023-12-19 23:

- 43: 2024-07-16
- 52: Class 13 24: Part F
- 71: NIENHUIS, Jan, Balster

54: BENDABLE SOLAR PANEL MOUNTING POST

57: The design relates to a Bendable Solar Panel Mounting Post. The features of the design are those of shape and/or configuration.

- 21: F2023/01448 22: 2023-12-19 23:
- 43: 2024-07-16
- 52: Class 13 24: Part F
- 71: NIENHUIS, Jan, Balster

54: RIGID SOLAR PANEL MOUNTING POST

57: The design relates to a Rigid Solar Panel Mounting Post. The features of the design are those of shape and/or configuration. The Solar Panel Frame "A" shown in Figures 1 and 2 does not form part of the design.



21: F2023/01449 22: 2023-12-19 23: 43: 2024-07-16 52: Class 13 24: Part F 71: NIENHUIS, Jan, Balster 54: ANTI-THEFT SOLAR PANEL BRACKET

57: The design relates to an Anti-Theft Solar Panel Bracket. The features of the design are those of shape and/or configuration. The Solar Panel Frame "A" and rail "B" shown in the figures does not form part of the design.



- 21: F2023/01453 22: 2023-12-20 23:
- 43: 2024-07-16
- 52: Class 9 24: Part F
- 71: SERRA MANUFACTURING (PTY) LIMITED 54: BIN WITH MOUNTING BRACKET

57: The design relates to a bin with mounting bracket. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



EXPLODED REAR PERSPECTIVE VIEW

21: F2024/00055 22: 2024-01-18 23: 43: 2024-08-14 52: Class 21 24: Part F

71: VAN EEDEN, Christiaan Hieronymans Bornman 54: BALL COLLECTOR AND DISPENSER

57: The design relates to a ball collector and dispenser. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a ball collector and dispenser, more specifically for a golf ball collector and dispenser substantially as illustrated in the accompanying representations, irrespective of the features shown in broken lines.

#### 54: BALL COLLECTOR AND DISPENSER

57: The design relates to a ball collector and dispenser. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a ball collector and dispenser, more specifically for a golf ball collector and dispenser substantially as illustrated in the accompanying representations, irrespective of the features shown in broken lines.



#### FRONT PERSPECTIVE VIEW OF ARTICLE IN A COLLAPSED POSITION

21: F2024/00056 22: 2024-01-18 23: 43: 2024-08-14 52: Class 21 24: Part F 71: VAN EEDEN, Christiaan Hieronymans Bornman



#### FRONT PERSPECTIVE VIEW OF ARTICLE IN A COLLAPSED POSITION

21: F2024/00081 22: 2024-01-22 23: 43: 2024-08-13 52: Class 23 24: Part F 71: TIGRE SOLUÇÕES AMBIENTAIS, INDÚSTRIA, COMÉRCIO E MANUTENÇÃO DE EQUIPAMENTOS LTDA 33: BR 31: BR 30 2023 003873-6 32: 2023-07-20 54: SEWAGE REACTOR

57: The design is applied to a sewage reactor. The features of the design for which protection is claimed are those of the shape and/or configuration of the sewage reactor, substantially as illustrated in the accompanying representation.





21: F2024/00190 22: 2024-02-16 23:

- 43: 2024-09-04
- 52: Class 23 24: Part F
- 71: GIFFORD, Jason Laurence
- 54: BIOLOGICAL DESULPHURISATION VESSEL

57: The features of this design for which protection are claimed include the shape and/or configuration of a biological desulphurisation vessel substantially as illustrated in the accompanying representations.

21: F2024/00110 22: 2024-01-29 23:

- 43: 2024-08-14
- 52: Class 16 24: Part F
- 71: HUNTER, Adrian Robert

#### **54: AN OPTICS SUPPORT**

57: The novelty of the design as applied to AN OPTICS SUPPORT resides in the features of shape and/or configuration and/or pattern as applied to the article as shown in the representations. The design does not claim the shape of adjustment knobs nor fastening screws. Similarly, the specific shapes of the individual panels are not claimed, which shapes may be modified while retaining the functionality of the design and how panel interaction serves as an optics support.



ISOMETRIC ELEVATION VIEW

#### 21: F2024/00191 22: 2024-02-16 23:

- 43: 2024-09-04
- 52: Class 15 24: Part F
- 71: GIFFORD, Jason Laurence

#### 54: GAS DRYER

57: The features of this design for which protection are claimed include the shape and/or configuration of a gas dryer substantially as illustrated in the accompanying representations.



- 21: F2024/00471 22: 2024-05-20 23:
- 43: 1900-01-01
- 52: Class 9 24: Part F
- 71: CNC Rentals Pty Ltd

#### 54: SEEDLING TRAY

57: The design relates to a Seedling Tray. The features of the design are those of shape and/or pattern and/or configuration.



21: F2024/00472 22: 2024-05-21 23: 2023-11-27 43: 2024-07-03

52: Class 8 24: Part F

71: Jason Blacklock

## 54: SET OF COMPONENTS FOR A SECURITY DEVICE

57: The design relates to a Set of components for a security device. The features of the design are those of shape and/or pattern and/or configuration.



- 21: F2024/00473 22: 2024-05-21 23: 2023-11-27 43: 2024-07-03 F2: Close 10: 24: Dett 5
- 52: Class 10 24: Part F
- 71: Jason Blacklock

## 54: SET OF COMPONENTS FOR A SECURITY DEVICE

57: The design relates to a Set of components for a security device. The features of the design are those of shape and/or pattern and/or configuration.



21: F2024/00551 22: 2024-06-13 23: 43: 2024-07-03 52: Class 8 24: Part F 71: PROTHERO, Gareth Clive, VAN DIEMAN, Eric 54: MOUNT 57: The design relates to a Mount. The features of the design are those of shape and/or pattern and/or configuration.



- 21: F2024/00552 22: 2024-06-13 23:
- 43: 2024-07-03
- 52: Class 23 24: Part F
- 71: PROTHERO, Gareth Clive, VAN DIEMAN, Eric 54: MOUNT

57: The design relates to a Mount. The features of the design are those of shape and/or pattern and/or configuration.



21: F2024/00553 22: 2024-06-13 23:

43: 2024-07-03

52: Class 8 24: Part F

71: PROTHERO, Gareth Clive, VAN DIEMAN, Eric

#### 54: HOOD

57: The design relates to a Hood. The features of the design are those of shape and/or pattern and/or configuration.

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21: F2024/00554 22: 2024-06-13 23: 43: 2024-07-03 52: Class 23 24: Part F

71: PROTHERO, Gareth Clive, VAN DIEMAN, Eric 54: HOOD

57: The design relates to a Hood. The features of the design are those of shape and/or pattern and/or configuration.



- 21: F2024/00555 22: 2024-06-13 23:
- 43: 2024-07-03
- 52: Class 8 24: Part F
- 71: PROTHERO, Gareth Clive, VAN DIEMAN, Eric 54: EDGE STRIP

57: The design relates to a Edge Strip. The features of the design are those of shape and/or pattern and/or configuration.



21: F2024/00556 22: 2024-06-13 23:

43: 2024-07-03

52: Class 23 24: Part F

71: PROTHERO, Gareth Clive, VAN DIEMAN, Eric 54: EDGE STRIP

57: The design relates to a Edge Strip. The features of the design are those of shape and/or pattern and/or configuration.



- 21: F2024/00668 22: 2024-07-02 23:
- 43: 2024-07-26
- 52: Class 31 24: Part F
- 71: New Trend Manufacturing
- 54: STOVE

57: The design relates to a Stove. The features of the design are those of shape and/or pattern and/or configuration.



#### HYPOTHECATIONS

No records available

JUDGMENTS

No records available

### OFFICE PRACTISE NOTICES

No records available

# 4. COPYRIGHT
# COPYRIGHT IN CINEMATOGRAPH FILMS

## NOTICES OF ACCEPTANCE

#### (Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: (21) Official application number. (22) Date of application. (43) Date of acceptance. (24) Date(s) and place(s) at which cinematograph films was made. (25) Date and place of first publication. (71) Name (s) of all applicant (s). (75) Name of author. (76) Name of producer (77) Name of director (54) Title of cinematograph film. (78) Name(s) of principal players or narrator. (26) Places at which cinematograph film may be viewed and conditions. (55) Specimen lodged/Not lodged. (56) Preview requested/Not requested. (57) Abstract (Storyline). (58) Category.

21: 2024/00011 22: 2024-09-12 43: 2024-09-12 24: 2023/02/13 to 2023/03/18; KwaZulu Natal, namely Durban, the Midlands and surrounding areas 25: 2024/09/11; Suncoast Cinecentre, Suncoast **Boulevard Marine** Parade Durban, Kwazulu-Natal, South Africa 71: East Coast Media CC 133 Princess Alice Avenue, Glenwood, Durban, KwaZulu-Natal, 4000, South Africa Urvashini Rani Sitaram 9 Stirling Place, Westville, KwaZulu-Natal, 3629, South Africa 75: Urvashini Rani Sitaram9 Stirling Place, Westville, KwaZulu-Natal, ZA, 3629, Phone: 0123497800, Email: r.bruce@svw.co.za; 76: Urvashini Rani Sitaram: 77: Darrell James Roodt; 54: GREYTOWN GIRL 78: Sanam Sitaram; Jack Devnarain; Emmanuel Castis; Uveka Rangappa; 26: By prior request sent to Smit & Van Wyk 55: Specimen not lodged 56: Preview not requested 57: The true story of a small-town South African girl with physical limitations, abandoned as a baby, who bravely builds her life and creates a love story that crosses continents through the romance of letter writing. An empowering and cinematic story of love and resilience. 58: DR

21: 2024/00012 22: 2024-09-16 43: 2024-09-16 24: 2024/05/03 to 2024/05/06; Cape Town 25: 2024/07/01; Cape Town 71: Enrico Hartzenberg

94 IRIS STR, Cape Town, 7580, South Africa 75: Enrico Hartzenberg94 Iris Street, Cape Town, ZA, 7580, Phone :060741788, Email: info@hartzenbergfilms.co.za 76: Enrico Hartzenberg; 77: Crystal Donna Roberts 54: Mr Isaacs 78: Ayden Croy; Tamia Thompson; Marlon Swarts; Amy May; Crystal Donna Roberts; Robyn September; 26: Kuils River, Sarepta 55: Specimen not lodged 56: Preview not requested 57: Tauriq, unable to find a job, feels emasculated living off his content-creator wife, Aisha. Seeking comfort in soccer, he ends up betraving his best friend. This betrayal leads to a tragic mistake where Aisha is killed, leaving Tarig to face the consequences.

#### 58: DR

## **HYPOTHECATIONS**

No records available

#### JUDGMENTS

No records available

# **OFFICE PRACTICE NOTICES**

No records available

# **5. CORRECTION NOTICES**

#### TRADE MARK CORRECTION NOTICES

No records available

#### PATENT CORRECTION NOTICES

The patent restoration under application no: **2021/01067** was firstly advertised in the March 2024 Journal and erroneously advertised for the second time in the July 2024 journal however the valid publication date will remain **27/03/2024**.

The amendment of the patent application no: 2022/03979 was advertised in the August 2024 journal with an incorrect applicant's name and also the title of invention and the amendment should appeared as the one below but the publication date will still remain the **28/08/2024**.

Applicant: WATSON MARLOW GMBH Kurt-Alder-Strasse 1, Rommerskirchen, 41569, Germany. Request permission to amend the specification of letters patent no: 2022/03979 of 10/06/2024 for CONVEYOR DEVICE AT LEAST FOR CONVEYING A FLUID AND PUMP COMPRISING SUCH A CONVEYOR DEVICE.

A copy of the original specification on which the proposed amendment is indicated inred, is now available for public inspection at the Patent Office.

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof. Registrar of Patents

#### **DESIGNS CORRECTION NOTICES**

No records available

#### **COPYRIGHT CORRECTION NOTICES**

No records available

## PATENTS

# Advertisement List for September 2024

#### Number of Advertised Patents: 781

Application Number	Patent Title	Filing Date
2014/05021	CX3CR1-BINDING POLYPEPTIDES	2014/07/09
2015/02979	A POROUS SILICA MATERIAL FOR USE AS A PHARMACEUTICAL OR DIETARY ACTIVE INGREDIENT	2015/04/30
2015/09053	A SYSTEM FOR VARIABLE-RATIO BLENDING OF MULTIPLE AGRICULTURAL PRODUCTS FOR DELIVERY VIA A PORTED OPENER	2015/12/11
2016/02877	TREATMENT OF METABOLIC DISORDERS IN FELINE ANIMALS	2016/04/26
2016/03714	DELIVERY, USE AND THERAPEUTIC APPLICATIONS OF THE CRISPR- CAS SYSTEMS AND COMPOSITIONS FOR GENOME EDITING	2016/05/31
2017/00196	METHODS FOR TREATING HIGH CARDIOVASCULAR RISK PATIENTS WITH HYPERCHOLESTEROLEMIA	2017/01/10
2017/01000	ATTENUATED BOVINE CORONAVIRUS AND RELATED VACCINES	2017/02/09
2017/01766	MONITORING SYSTEM FOR A REFUELING STATION	2017/03/10
2017/02984	INAUDIBLE SIGNALING TONE	2017/04/28
2017/04778	INTERNAL COMBUSTION ENGINE, COMBUSTION SYSTEMS, AND RELATED METHODS AND CONTROL METHODS AND SYSTEMS	2017/07/14
2018/01083	SINGLE DOMAIN ANTIBODY FOR PROGRAMMED DEATH-LIGAND (PD-L1) AND DERIVED PROTEIN THEREOF	2018/02/16
2018/01088	A METHOD FOR MANUFACTURING DIFFERENT TYPES OF SMOKING ARTICLE	2018/02/16
2018/01868	OIL-BASED SUSPENSION CONCENTRATES WITH LOW GRAVITATIONAL SEPARATION AND LOW VISCOSITY	2018/03/20
2018/02119	SYSTEMS, METHODS, AND APPARATUS FOR MULTI¿ROW AGRICULTURAL IMPLEMENT CONTROL AND MONITORING	2018/04/03
2018/02157	FIVE-BEVEL CANNULA FOR BLOOD	2018/04/03

Application Number	Patent Title	Filing Date
	ACQUISITION DEVICES	
2018/02443	A METHOD OF CULTURING CELLS	2018/04/13
2018/02460	STABLE PROTEIN COMPOSITIONS	2018/04/13
2018/04835	FORMULATION AND ITS USE	2018/07/18
2018/05240	TLR7 AGONIST TRIFLUOROACETATE SALT AND CRYSTALLINE FORM B THEREOF, PREPARATION METHODS AND USES	2018/08/03
2018/05408	MEDICAMENT FOR TREATMENT OF DIABETIC FOOT INFECTIONS	2018/08/14
2018/06397	HUMANIZED ANTI CLEVER-1 ANTIBODIES AND THEIR USE	2018/09/26
2018/06477	GENE THERAPY FOR TREATING HEMOPHILIA A	2018/09/28
2018/06903	USE OF NON-PROLINE CYCLIC AMINO ACIDS TO INCREASE THE TOLERANCE OF PLANTS TO CONDITIONS OF OSMOTIC STRESS	2018/10/16
2018/07091	A METHOD AND SYSTEM FOR CONTROLLING THE PERFORMANCE OF A CONTRACT USING A DISTRIBUTED HASH TABLE AND A PEER-TO-PEER DISTRIBUTED LEDGER	2018/10/24
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2018/07177	COLOR TABLE COMPRESSION	2018/10/26
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2018/07585	COMBINATION THERAPY WITH NOTCH AND PD-1 OR PD-L1 INHIBITORS	2018/11/12
2018/07659	MICROBIOCIDAL THIAZOLE DERIVATIVES	2018/11/14
2018/08123	METHOD FOR ENSURING HYDROGEN EXPLOSION SAFETY AT NUCLEAR POWER PLANT	2018/11/30
2018/08127	SYSTEM AND METHOD FOR THE REVERSIBLE TRANSFER OF AMMUNITION BETWEEN A PRIMARY MAGAZINE AND A SECONDARY MAGAZINE IN AN AUTOMATIC CANNON	2018/11/30
2018/08134	AERATED CHOCO-MATERIAL	2018/11/30
2018/08378	HYBRID MEAT PRODUCT AND METHOD OF PRODUCTION	2018/12/12
2019/00694	6,7,8,9-TETRAHYDRO-3H- PYRAZOLO[4,3-F]ISOQUINOLINE	2019/02/01

Application Number	Patent Title	Filing Date
	DERIVATIVES USEFUL IN THE	
	TREATMENT OF CANCER	
2019/00840	WIRELESS HYDROCYCLONE ROPING AND WEAR MANAGEMENT SYSTEM	2019/02/08
2019/01344	LIPID COMPOSITION FOR USE IN INFANTS AND YOUNG CHILDREN FOR PROMOTING GUT COMFORT AND OPTIMAL FAT AND CALCIUM ABSORPTION	2019/03/04
2019/01345	MULTIVALENT PNEUMOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE COMPOSITION	2019/03/04
2019/01346	MULTIVALENT PNEUMOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE COMPOSITION	2019/03/04
2019/01383	TRITIUM HOUSING	2019/03/05
2019/01993	SCANNING-BASED STEERING OF A MOBILE HAULAGE SYSTEM FOR CONTINUOUSLY CONVEYING FRAGMENTED MATERIAL	2019/03/29
2019/02052	PHARMACEUTICAL COMPOSITION	2019/04/02
2019/02563	EXPEC GLYCOCONJUGATE VACCINE FORMULATIONS	2019/04/23
2019/02584	CANNABIS EXTRACTS AND METHODS OF PREPARING AND USING SAME	2019/04/24
2019/02950	ACYLATED GLP-1/GLP-2 DUAL AGONISTS	2019/05/10
2019/03038	LOW-VOLTAGE CIRCUIT BREAKER DEVICE	2019/05/15
2019/03192	USE OF AN ACID TREATMENT TO DECREASE THE PLASTICITY OF A COMPOSITION COMPRISING A TITANIUM-CONTAINING ZEOLITIC MATERIAL HAVING FRAMEWORK TYPE MWW	2019/05/21
2019/03285	REEL	2019/05/24
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2019/03493	LUBRICANT COMPOSITION AND DISPERSANTS THEREFOR HAVING A BENEFICIAL EFFECT ON OXIDATION STABILITY	2019/05/31
2019/04104	SAFETY DEVICE AND METHOD TO PREVENT USE OF THE SAME DEVICE IF FAULTY	2019/06/24
2019/04253	INSERTABLE COUPLING FOR FRAME ELEMENTS OF A SCAFFOLDING	2019/06/28
2019/04371	COMPOUNDS AND COMPOSITIONS	2019/07/03
2019/05402	COMPOUNDS AND THEIR USE IN	2019/08/15

Application Number	Patent Title	Filing Date
	THE TREATMENT OF SCHISTOSOMIASIS	
2019/05409	SOLVENT COMPOSITION AND PROCESS FOR CLEANING CONTAMINATED INDUSTRIAL EQUIPMENT	2019/08/15
2019/05745	METHOD FOR MANAGING THE LIFECYCLE OF A COMPLEX UTILITY PLANT AND SYSTEM FOR THE IMPLEMENTATION THEREOF	2019/08/30
2019/06443	COMPOSITIONS AND SYSTEMS FOR RENAL FUNCTION DETERMINATION	2019/09/30
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2019/07167	DEVICE FOR COLLECTING, TRANSPORTING AND STORING BIOMOLECULES FROM A BIOLOGICAL SAMPLE	2019/10/30
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2019/07552	RECOMBINANT HUMAN ACID ALPHA-GLUCOSIDASE	2019/11/14
2019/07715	VACCINE COMPRISING CLOSTRIDIUM TOXOIDS	2019/11/21
2020/00276	ECP DUMPER BRAKING	2020/01/15
2020/00307	METHODS AND SYSTEMS FOR BLOCKCHAIN-IMPLEMENTED EVENT-LOCK ENCRYPTION	2020/01/16
2020/00403	ASSEMBLIES AND PROCESSES FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING ORIENTED NON-SPHERICAL OBLATE MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES	2020/01/21
2020/00680	OBINUTUZUMAB TREATMENT OF A DLBCL PATIENT SUBGROUP	2020/01/31
2020/00944	ROCK BOLT WITH MESHING ADAPTER	2020/02/13
2020/01505	SMART CONTRACT EXECUTION USING DISTRIBUTED COORDINATION	2020/03/10
2020/01528	NON-INVASIVE DIAGNOSTIC OF NON-ALCOHOLIC FATTY LIVER DISEASES, NON-ALCOHOLIC STEATOHEPATITIS AND/OR LIVER	2020/03/11
		476

Application Number	Patent Title	Filing Date
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2020/01664	TEREPHTHALIC ACID ESTERS FORMATION	2020/03/17
2020/02097	EXPANSION AND USE OF EXPANDED NK CELL FRACTIONS	2020/05/04
2020/02107	USE OF SPECIFIC SIRNA AGAINST PROTEIN S FOR THE TREATMENT OF HEMOPHILIA	2020/05/04
2020/02180	PERSONAL CARE COMPOSITIONS	2020/05/04
2020/02196	METHODS AND DEVICES FOR PERFORMING AN ANALYTICAL MEASUREMENT	2020/05/04
2020/02279	LOW-VOLTAGE CIRCUIT BREAKER DEVICE	2020/05/04
2020/02338	NOVEL BISPECIFIC POLYPEPTIDE COMPLEXES	2020/05/04
2020/02366	COMPOSITIONS, USES AND METHODS FOR TREATMENT OF INFERTILITY AND SUBFERTILITY	2020/05/04
2020/02597	A METHOD AND SYSTEM FOR WIRELESS MEASUREMENT OF DETONATION OF EXPLOSIVES	2020/05/08
2020/02721	SET CONTROL COMPOSITION FOR CEMENTITIOUS SYSTEMS	2020/05/13
2020/02726	ORAL RIFAMYCIN SV COMPOSITIONS	2020/05/13
2020/02775	CULTIVATION OF PLACENTA TO ISOLATE EXOSOMES	2020/05/14
2020/02818	WELDING APPARATUS	2020/05/15
2020/02920	NEW ANALOGS AS ANDROGEN RECEPTOR AND GLUCOCORTICOID RECEPTOR MODULATORS	2020/05/19
2020/03241	PROCESS FOR THE ALKYLATION OF ALIPHATIC ORGANIC COMPOUNDS	2020/05/29
2020/03243	CYCLOBENZAPRINE TREATMENT FOR AGITATION, PSYCHOSIS AND COGNITIVE DECLINE IN DEMENTIA AND NEURODEGENERATIVE CONDITIONS	2020/05/29
2020/03585	ANTI-MCT1 ANTIBODIES AND USES THEREOF	2020/06/15
2020/04450	AIR FRESHENERS AND SURFACE CLEANERS	2020/07/20
2020/04595	BISPECIFIC ANTIBODY CONSTRUCT DIRECTED TO MUC17 AND CD3	2020/07/24
2020/04849	THERAPEUTIC AGENTS FOR TREATING RESTLESS LEGS SYNDROME	2020/08/05
2020/05969	PARTITIONING A BLOCKCHAIN	2020/09/28

Application Number	Patent Title	Filing Date
2020/05985	NETWORK A METHOD AND SYSTEM FOR DETERMINING THE LOCATION OF ARTEFACTS AND/OR INCLUSIONS IN A GEMSTONE, MINERAL, OR SAMPLE THEREOF	2020/09/28
2020/06056	COMPOSITIONS AND METHODS FOR INCREASING CONSUMPTION OF WATER IN COMPANION ANIMALS	2020/09/30
2020/06504	ANTIBODIES, AND BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND HER2 AND/OR APLP2, CONJUGATES, AND USES THEREOF	2020/10/20
2020/06757	SYSTEMS AND METHODS FOR DYNAMIC IDENTITY DECISIONING	2020/10/29
2020/06993	AERO-ACOUSTIC MATERIALS PROCESSING PLANT WITH NOISE ATTENUATION SYSTEM	2020/11/10
2020/07195	POLYCRYSTALLINE DIAMOND CUTTER ELEMENT AND EARTH BORING TOOL	2020/11/18
2020/07571	A DYE-SENSITIZED SOLAR CELL UNIT, A PHOTOVOLTAIC CHARGER INCLUDING THE DYE-SENSITIZED SOLAR CELL UNIT AND A METHOD FOR PRODUCING THE SOLAR CELL UNIT	2020/12/04
2021/00313	PUMPING SYSTEM	2021/01/15
2021/00397	SYSTEM FOR IMPROVED ACCESS TO LIQUID IN A PLASTIC CONTAINER AND LID ASSEMBLY	2021/01/19
2021/00403	REDUCED-RESIDUE HARD SURFACE CLEANER AND METHOD FOR DETERMINING FILM/STREAK	2021/01/19
2021/00469	ESCHERICHIA COLI COMPOSITIONS AND METHODS THEREOF	2021/01/22
2021/00556	PROPHYLACTIC OR THERAPEUTIC AGENT FOR SPINAL MUSCULAR ATROPHY	2021/01/26
2021/00581	FAT COMPOSITION	2021/01/27
2021/00663	ROCK BOLT WITH INFORMATION DISPLAY REGION	2021/01/29
2021/00666	CHRONIC NIGHTLY DOSING OF LASMIDITAN FOR MIGRAINE PREVENTION	2021/01/29
2021/00672	FURTHER SUBSTITUTED TRIAZOLO QUINOXALINE DERIVATIVES	2021/01/29
2021/00754	AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS,	2021/02/03

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2021/00766	ELECTRICAL AC/DC CONVERSION	2021/02/03
2021/00783	SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS	2021/02/04
2021/00784	SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS	2021/02/04
2021/00785	SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS	2021/02/04
2021/00850	AUDIO APPARATUS AND METHOD OF OPERATION THEREFOR	2021/02/08
2021/00853	PERSONAL CARE COMPOSITIONS	2021/02/08
2021/00855	PERSONAL CARE COMPOSITIONS	2021/02/08
2021/00876	ARTICLE ANTI-FORGERY PROTECTION	2021/02/09
2021/00883	WHEEL ASSEMBLY INCLUDING OUTER RIM COUPLED RING DEFINING A MECHANICAL STOP AND RELATED METHODS	2021/02/09
2021/00913	WHEEL ASSEMBLY INCLUDING LATERAL STOPS AND RELATED METHODS	2021/02/10
2021/00917	WHEEL ASSEMBLY INCLUDING RELATIVE MOVEMENT SENSOR AND RELATED METHODS	2021/02/10
2021/00948	AUSTENITIC STAINLESS ALLOY WITH SUPERIOR CORROSION RESISTANCE	2021/02/11
2021/00950	PALATABLE ANTIPARASITIC FORMULATIONS	2021/02/11
2021/00990	5 TO 7 MEMBERED HETEROCYCLIC AMIDES AS JAK INHIBITORS	2021/02/12
2021/01015	POSITION DEPENDENT INTRA PREDICTION COMBINATION WITH WIDE ANGLE INTRA PREDICTION	2021/02/15
2021/01048	BIOLOGICAL METHODS FOR CONTROLLING PHYTOPATHOGENIC FUNGI	2021/02/16
2021/01087	WHEEL ASSEMBLY INCLUDING INNER AND OUTER RIM COUPLED RINGS DEFINING A MECHANICAL STOP AND RELATED METHODS	2021/02/17
2021/01091	PRESSURE RELIEF SYSTEM AND A CONTAINER, BUILDING, ENCLOSURE OR CUBICLE INCLUDING A PRESSURE RELIEF	2021/02/17

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	SYSTEM	
2021/01304	COMPOUNDS FOR TREATING CERTAIN LEUKEMIAS	2021/02/25
2021/01343	DEVICE AND METHOD FOR FILTERING A FLUID CIRCULATING IN A PLUMBING AND HEATING SYSTEM	2021/02/26
2021/01534	METHOD AND SYSTEM FOR FORMING A COMPOSITE MATERIAL	2021/03/05
2021/01699	DEVICE AND METHOD FOR WIRELESS POWER TRANSFER	2021/03/12
2021/01728	ERBUMINE SALT OF TREPROSTINIL	2021/03/15
2021/01788	AMINOPYRIMIDINE/PYRAZINE DERIVATIVES AS CTPS1 INHIBITORS	2021/03/17
2021/01886	TECHNIQUES FOR SEARCH SPACE MANAGEMENT	2021/03/19
2021/01940	ORAL CARE COMPOSITIONS AND METHODS FOR THE SAME	2021/03/23
2021/01955	METAL NITRATE BASED COMPOSITIONS FOR USE AS PHASE CHANGE MATERIALS	2021/03/24
2021/01990	SULFOMALEIMIDE-BASED LINKERS AND CORRESPONDING CONJUGATES	2021/03/24
2021/02029	ESPRESSO COFFEE MACHINE WITH ADJUSTMENT OF THE DISPENSING PRESSURE AND METHOD FOR ADJUSTING THE DISPENSING PRESSURE OF AN ESPRESSO COFFEE MACHINE	2021/03/25
2021/02063	AN ENCODING DEVICE, A DECODING DEVICE, AND CORRESPONDING METHODS USING A PALETTE CODING	2021/03/26
2021/02106	METHODS FOR FUNGI INHIBITION ON LIVE PLANTS USING CARBOXYLIC ACIDS AND THEIR SALTS	2021/03/29
2021/02194	APPARATUS AND METHOD FOR COMBINED VISUAL INTELLIGENCE	2021/03/31
2021/02611	NOVEL APPLICATIONS OF HOP ACIDS	2021/04/20
2021/02622	BIOBASED BARRIER COATINGS COMPRISING POLYOL/SACCHARIDE FATTY ACID ESTER BLENDS	2021/04/20
2021/02830	IP-BASED METHOD, APPARATUS AND SYSTEM FOR NARROW-BAND SERVICE SOUND PLAYING, AND STORAGE MEDIUM	2021/04/28
2021/02895	BETA-CASEIN ANALYSIS OF MILK	2021/04/29

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	AND MILK PRODUCTS	
2021/02913	DOSAGE REGIME	2021/04/30
2021/02990	A METHOD OF DESIGNING A LIGHT- REDIRECTING SURFACE OF A CAUSTIC LAYER, AN OPTICAL SECURITY ELEMENT COMPRISING THE DESIGNED LIGHT- REDIRECTING SURFACE OF THE CAUSTIC LAYER, A MARKED OBJECT, USE AND METHOD OF	2021/05/04
0004/00405		0004/05/40
2021/03125	MONITORING ADHERENCE TO NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITOR THERAPY	2021/05/10
2021/03136	MEASUREMENT DEVICE FOR DETERMINING THE FLOW OF A FLUID FLOWING THROUGH A PIPE SECTION	2021/05/10
2021/03151	AUTOMATIC TOILET CLEANER DEVICE	2021/05/10
2021/03224	SYSTEMS, METHODS, AND AN APPARATUS FOR CONTROLLING A SLEEP ENVIRONMENT AND WAKING A SLEEPING PERSON	2021/05/12
2021/03263	PLACENTA-DERIVED ALLOGENEIC CAR-T CELLS AND USES THEREOF	2021/05/13
2021/03284	3BETA-(BENZYLOXY)-17ALPHA- METHYL-PREGN-5-EN-20-ONE FOR USE IN THE TREATMENT OF COGNITIVE DISORDERS	2021/05/14
2021/03398	SINGLE-USE CASSETTE ASSEMBLY	2021/05/19
2021/03401	CELLULOSE RAW MATERIAL AND METHOD FOR RECYCLING A CELLULOSE RAW MATERIAL FROM BLENDED TEXTILE WASTE	2021/05/19
2021/03431	BIS-OCTAHYDROPHENANTHRENE CARBOXAMIDE DERIVATIVES AND PROTEIN CONJUGATES THEREOF FOR USE AS LXR AGONISTS	2021/05/20
2021/03433	METHOD FOR PREPARING N- PHENYLPYRAZOLE-1- CARBOXAMIDES	2021/05/20
2021/03633	METHOD OF MANUFACTURING A BRAZING SHEET PRODUCT	2021/05/27
2021/03683	SUBSTITUTED ARYLMETHYLUREAS AND HETEROARYLMETHYLUREAS, ANALOGUES THEREOF, AND METHODS USING SAME	2021/05/28
2021/03795	METHODS OF INDUCING SIGA AND MUCIN 5B IN THE ORAL CAVITY	2021/06/02

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0004/04040		0004/00/04
2021/04243	SYSTEMS AND METHODS	2021/06/21
2021/04416	COMMUNICATING PRINT COMPONENT	2021/06/25
2021/04444	COMPUTER-IMPLEMENTED METHOD FOR DETERMINING SURVEY SAMPLING PARAMETERS FOR ENVIRONMENTAL NUCLEIC ACID	2021/06/28
2021/05517	PROPELLANT PORTIONING DEVICE COMPRISING AN EXPANDABLE HOLDING ELEMENT	2021/08/03
2021/05567	PHARMACEUTICAL COMBINATIONS COMPRISING MEBENDAZOLE AND A STRONG OR MODERATE CYP1A2 INHIBITOR	2021/08/06
2021/05713	DRAIN PIPE CONNECTOR SYSTEM	2021/08/12
2021/05959	CHARACTERIZATION OF ELECTRICITY-PRODUCING CELLS USING BROADBAND IMPEDANCE SPECTROSCOPY	2021/08/19
2021/06698	POD ASSEMBLY, DISPENSING BODY, AND E-VAPOR APPARATUS INCLUDING THE SAME	2021/09/10
2021/06804	ELECTRONIC DEVICE INCLUDING ANTENNA DEVICE	2021/09/14
2021/08169	POLYMER-LIPID NANOCOMPLEX FOR ENHANCED AQUEOUS SOLUBILISATION AND ABSORPTION OF HYDROPHOBIC ACTIVE COMPOUNDS	2021/10/22
2021/08536	BNIP3 PEPTIDES FOR TREATMENT OF REPERFUSION INJURY	2021/11/02
2021/08632	TRICYCLIC AKR1C3 DEPENDENT KARS INHIBITORS	2021/11/04
2021/08640	DISPENSER AND METHOD OF USE THEREOF	2021/11/04
2021/08823	METHOD OF TREATING LOWER URINARY TRACT SYMPTOMS WITH FEXAPOTIDE TRIFLUTATE	2021/11/09
2021/09128	SYSTEMS AND METHODS FOR PRODUCING A PRODUCT	2021/11/16
2021/09734	METHOD AND SYSTEM FOR CALCULATING THE ENERGY AVAILABLE IN AN ELECTRIC BATTERY AT ANY MOMENT DURING THE LIFE THEREOF, WITHOUT DISCHARGING SAME, AND THE AUTONOMY, CAPACITY AND REMAINING LIFE THEREOF	2021/11/29
2021/10165	SEAL	2021/12/08
2021/10480	MOUNTING APPARATUS	2021/12/15

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2021/10589	PROTOCOL FOR VALIDATING	2021/12/17
2022/00192	BLOCKCHAIN TRANSACTIONS	2022/01/02
2022/00182		2022/01/03
2022/00004	LARGE CAPACITY TRUCKS	2022/01/13
2022/00790	METHOD AND DEVICE FOR REALIZING BEAMFORMING	2022/01/17
2022/00948	METHODS OF MAKING INCRETIN ANALOGS	2022/01/20
2022/01087	PERSONAL CARE COMPOSITIONS	2022/01/24
2022/01088	PERSONAL CARE COMPOSITIONS AND METHODS	2022/01/24
2022/01230	BIOMARKERS AND TREATMENTS OF ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT	2022/01/26
2022/01930	LONG LIVED T CELLS FOR TREATING HIV INFECTION	2022/02/15
2022/02001	METHOD AND SYSTEM FOR DISTRIBUTION OF A CONSISTENT LEDGER ACROSS MULTIPLE BLOCKCHAINS	2022/02/16
2022/02113	USER DATA TRANSPORT OVER CONTROL PLANE IN COMMUNICATION SYSTEM USING DESIGNATED PAYLOAD CONTAINER TYPES	2022/02/18
2022/02243	AQUEOUS PHARMACEUTICAL COMPOSITION OF ANTI-PD1 ANTIBODY PROLGOLIMAB AND THE USE THEREOF	2022/02/22
2022/02314	SYSTEMS AND METHODS FOR ALTERING ROTATION OF A SOLAR ROTATIONAL MANUFACTURING SYSTEM	2022/02/23
2022/02361	TREATMENT OF HIDRADENITIS SUPPURATIVA USING JAK INHIBITORS	2022/02/24
2022/02381	APPARATUS AND METHOD FOR DRYING AND STYLING HAIR	2022/02/24
2022/03270	BLOCKCHAIN DATABASE MANAGEMENT SYSTEM	2022/03/18
2022/03412	POLYHETEROCYCLIC MODULATORS OF STING (STIMULATOR OF INTERFERON GENES)	2022/03/23
2022/03571	DRY POWDER INHALER WITH AN ADHERENCE MONITOR	2022/03/28
2022/03653	ANTI-TRANSFERRIN RECEPTOR ANTIBODIES WITH TAILORED AFFINITY	2022/03/30
2022/03668	METHODS OF TREATING ANTIPSYCHOTIC-INDUCED WEIGHT	2022/03/30

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2022/02780		2022/04/01
2022/03/89	FORMULATIONS OF KETAMINE	2022/04/01
	PAMOATE SALTS	
2022/03817	FUEL THEFT DETERMINATION	2022/04/04
	DETERMINATION SYSTEM AND	
	COMPUTER-READABLE MEDIUM	
2022/03883	HOSE	2022/04/05
2022/04072	CO-DELIVERY OF TGF-ß SIRNA	2022/04/11
	AND PDL1 SIRNA TO TREAT	
2022/04245		2022/04/14
2022/04246	OPERATING MECHANISM FOR A	2022/04/14
	SWITCH	
2022/04284		2022/04/14
2022/04373	ATTENUATED AFRICAN SWINE	2022/04/19
	FEVER VACCINE BASED IN THE	
	DELETION OF GENE 1177L	
2022/04432		2022/04/20
	COLUMN	
2022/04557	HUMANIZED ANTIBODIES TO TNF-	2022/04/22
	LIKE LIGAND 1A (TL1A) AND USES	
2022/04602		2022/04/25
2022/04002	THEREOF	2022/04/23
2022/04730	OLIGONUCLEOTIDES WITH	2022/04/28
0000/04704		0000/04/00
2022/04734	NANOPARTICI E DELIVERY	2022/04/28
	SYSTEM FOR NUCLEIC ACID	
	THERAPEUTICS	
2022/04777	NOVEL COMBINATIONS FOR	2022/04/29
2022/04821	SEALING ASSEMBLY AND ARRAY	2022/04/29
	OF PHOTOVOLTAIC PANELS	
	INCORPORATING SEALING	
2022/04845		2022/05/02
2022/04843	COMPRESSED SOUND OR SOUND	2022/03/03
	FIELD REPRESENTATIONS	
2022/04866	SYSTEMS, APPARATUSES, AND	2022/05/03
	METHODS FOR DETERMINING	
	DRILLING MACHINE	
2022/04981	SYNTHETIC CHIMERIC	2022/05/06
	POXVIRUSES	
2022/05083		2022/05/09
	COMPRISING POLYETHYLENE	
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2022/05094	SYSTEMS, APPARATUSES, AND METHODS FOR DETERMINING ROCK MASS PROPERTIES BASED ON BLASTHOLE DRILL PERFORMANCE DATA INCLUDING COMPENSATED BLASTABILITY INDEX (CBI)	2022/05/09
2022/05106	FILTER PRESS AND WASHER FOR FILTER PLATE APPARATUS	2022/05/09
2022/05157	METHODS FOR THE PREPARATION OF ETHYL 3-BROMO-1-(3- CHLOROPYRIDIN-2-YL)-1H- PYRAZOLE-5-CARBOXYLATE	2022/05/10
2022/05159	MAGNETIC SUSCEPTIBILITY AND CONDUCTIVITY MODULE	2022/05/10
2022/05170	PROCESS AND INTERMEDIATE FOR THE PREPARATION OF OXETAN-2-YLMETHANAMINE	2022/05/10
2022/05265	MULTI-UNIT DRUG DELIVERY DEVICES AND METHODS	2022/05/12
2022/05289	COMPOSITIONS AND METHODS FOR TREATING LIVER DISEASE	2022/05/12
2022/05295	COMPOSITION SUITABLE FOR 3D PRINTING	2022/05/12
2022/05453	OPTICAL BRANCHING AND TERMINATION BOX	2022/05/17
2022/05535	MUTATED PROTOPORPHYRINOGEN IX OXIDASE (PPX) GENES	2022/05/19
2022/05802	IMPROVED ROTOR ASSEMBLIES FOR AXIAL FLUX MACHINES	2022/05/25
2022/05833	AUTOMATED SYSTEM FOR PRODUCING INDUCED PLURIPOTENT STEM CELLS OR DIFFERENTIATED CELLS	2022/05/26
2022/05838	SOLAR CONTROL COATINGS WITH QUADRUPLE METALLIC LAYERS	2022/05/26
2022/05861	IMPELLER LOCKING COLLAR	2022/05/26
2022/05916	USE OF CELL FREE NUCLEOSOMES AS BIOMARKERS	2022/05/27
2022/05924	APPARATUS FOR DEPOSITING	2022/05/27
2022/05988	MODIFIED AEROSOL-GENERATING ELEMENT FOR USE IN AN AEROSOL-GENERATING ARTICLE OR SYSTEM	2022/05/30
2022/06042	TREATING BEHAVIORAL AND PSYCHOLOGICAL SYMPTOMS IN DEMENTIA PATIENTS	2022/05/31
2022/06178	PLANT-BASED MILK	2022/06/02
2022/06196	IMPROVED SYSTEM FOR TRAIN TERMINAL TEST	2022/06/03

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2022/06429	RECREATIONAL BAGS	2022/06/09
2022/06875	PROCESS FOR PREPARING ALKYLENE GLYCOL MIXTURE FROM A CARBOHYDRATE SOURCE WITH DECREASED SELECTIVITY FOR POLYOL SIDE PRODUCTS	2022/06/21
2022/07212	METHODS PROVIDING INFORMATION MESSAGES INCLUDING RACH REPORTS AND RELATED WIRELESS DEVICES	2022/06/29
2022/08270	HAIR COMB AND APPLICATOR DEVICE	2022/07/25
2022/08392	TARGET RESIDUAL MOISTURE CONTENT FOR LYOPHILIZED DRUG PRODUCT	2022/07/27
2022/08614	MULTI-DISC BRAKE HAVING RADIAL WEAR PIN CARTRIDGE AND INTEGRATED WATER JACKET	2022/08/02
2022/08678	MODULAR STRUCTURE FOR PROVIDING ON-SITE PROTECTION	2022/08/03
2022/08710	ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME	2022/08/04
2022/08785	SYSTEM AND METHOD FOR PERMANENT CARBON DIOXIDE SEQUESTRATION USING A RENEWABLE ENERGY SOURCE	2022/08/05
2022/08848	COMPOSITION FOR USE IN A TREATMENT OF CERVICAL CELL ABNORMALITIES COMPRISING SELENITE COMPOUND AND ACID	2022/08/08
2022/08947	HIGHLY ACTIVE COMPOUNDS AGAINST COVID-19	2022/08/10
2022/08980	CRANE MONITORING	2022/08/11
2022/08983	DEVICE AND METHOD FOR SEPARATING TISSUE FROM AN INTESTINE	2022/08/11
2022/09513	METHODS AND COMPOSITIONS FOR THE TREATMENT OF CELLULOSIC BIOMASS AND PRODUCTS PRODUCED THEREBY	2022/08/25
2022/09520	SPRAYING SYSTEMS, KITS, VEHICLES, AND METHODS OF USE	2022/08/25
2022/09672	DUAL-ACCESS CONTAINER CLOSURE	2022/08/30
2022/09750	LOCK ASSEMBLY FOR GROUND ENGAGING TOOL	2022/08/31
2022/10032	ANTI-CD6 ANTIBODY COMPOSITIONS AND METHODS FOR TREATING AND REDUCING NEGATIVE EFFECTS OF A CORONAVIRUS INCLUDING COVID-	2022/09/08

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	10	
2022/10247	FAT COMPOSITION SUITABLE AS A COCOA BUTTER EQUIVALENT	2022/09/15
2022/10319	USE OF A THIENOPYRIDONE DERIVATIVE IN THE TREATMENT OF ADRENOLEUKODYSTROPHY OR ADRENOMYELONEUROPATHY	2022/09/16
2022/10612	AEROSOL-GENERATING ARTICLE HAVING NOVEL CONFIGURATION	2022/09/26
2022/10613	AEROSOL-GENERATING ARTICLE INCLUDING SUBSTRATE WITH GEL COMPOSITION	2022/09/26
2022/10652	OBSTACLE SEGMENTATION NETWORK BASED ON USV AND GENERATION METHOD THEREFOR	2022/09/26
2022/10726	SYNERGISTIC HERBAL COMPOSITION AS A BROAD- SPECTRUM PROPHYLACTIC MAJOR AND METHOD TO PREPARE THE SAME	2022/09/28
2022/10941	PROCESS AND SYSTEM FOR GREENHOUSE GAS CAPTURE AND SEQUESTRATION	2022/10/05
2022/11237	HEATING DEVICE, HEATING SYSTEM, HEAT STORAGE DEVICE AND HEAT STORAGE SYSTEM	2022/10/13
2022/12112	A BALANCED INSOLE STRUCTURE WITH MASSAGE FUNCTION	2022/11/07
2022/12265	CONTAINER SYSTEM FOR TRANSPORTING AND DISPENSING AGRICULTURAL PRODUCTS	2022/11/10
2022/12266	DIGITAL IMAGING PRODUCTION MANAGEMENT DEVICES AND PROCESSES	2022/11/10
2022/12366	METHOD OF PREPARING A WINE BLENDED WITH HONEY	2022/11/14
2022/12490	INHIBITION OF UNINTENDED MUTATIONS IN GENE EDITING	2022/11/16
2022/12544	SYSTEMS AND METHODS FOR SECURE PAYMENTS VIA AN ALTERNATIVE COMMUNICATION PROTOCOL	2022/11/17
2022/12623	VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS	2021/05/21
2022/12626	NAVIGATION MODULE AND SYSTEM	2022/11/21
2022/12738	FEEDING SYSTEM AND METHOD	2022/11/23
2022/12821		2022/11/25

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2022/120/7		2022/11/20
2022/12947	AN AGENT	2022/11/29
2022/12999	METHOD OF CLEANING A STEEL SURFACE	2022/11/30
2022/13079	COMPOSITION FOR	2022/12/02
	THE SAME	
2022/13092	CODON-OPTIMIZED NUCLEIC ACID	2022/12/02
	THAT ENCODES SMN1 PROTEIN,	
2022/13304	WELLBORE SEGMENTED	2022/12/08
	OPERATION METHOD AND RUBBER	
0000/40000		0000/40/04
2022/13860	AND COMPUTER PROGRAM	2022/12/21
	PRODUCTS FOR INTEGRATING	
	STATE DATA FROM A PLURALITY	
2023/00151	NON-TOBACCO ORAL NICOTINE	2023/01/03
2020/00101	POUCH COMPOSITION	
2023/00166	SYSTEM AND METHOD FOR HEAT	2023/01/03
	REAL-TIME CORROSION	
	MONITORING	
2023/00348	ANTI-SORTILIN ANTIBODIES AND	2023/01/09
2023/00650	METHODS OF USE THEREOF	2023/01/16
2023/00030	DIAGNOSIS OF SARS-COV-2	2023/01/10
	INFECTION	
2023/00871		2023/01/19
2023/00924	QUINOXALINE DERIVATIVES AS	2023/01/20
	ANTI-CANCER DRUGS	
2023/01008	METHOD AND APPARATUS FOR	2023/01/24
	FILTER INDEX FOR A CURRENT	
	BLOCK	
2023/01097	CONTRACEPTIVE MEDICAL	2023/01/26
2023/01138	BIDIRECTIONAL DC CONVERTER,	2023/01/27
	CONTROL METHOD THEREFOR,	
	AND CONTROL MODULE THEREOF,	
2023/01146	NETWORK PACKET-BASED	2023/01/27
	REMOTE MEMORY ACCESS	
	METHOD AND APPARATUS, AND	
2023/01367	AVOIDING ELECTROMAGNETIC	2023/02/02
	INTERFERENCE (EMI) IN	
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2023/01528	BRIQUETTE	2023/02/07
2023/01627	A CONTAINER FOR AN/A	2023/02/09
	AQUAPONIC/HYDROPONIC	
	SYSTEM, A DRAINAGE	
	ARRANGEMENT, AN/A	
	AQUAPONIC/HYDROPONIC	
	SYSTEM, AND A METHOD OF	
2023/01639		2023/02/09
2023/01033	BRACKET ELECTRIC VEHICLE	
	AND METHOD FOR LOCKING AND	
	UNLOCKING BATTERY PACK	
2023/01731	REGULATION OF GENE	2023/02/13
	EXPRESSION BY APTAMER-	
	MEDIATED MODULATION OF	
	ALTERNATIVE SPLICING	0000/00/40
2023/01732		2023/02/13
	EXPRESSION BY APTAMER-	
	ALTERNATIVE SPLICING	
2023/01733	PATRON MANAGEMENT SYSTEM	2023/02/13
2020,01100	AND METHOD THEREOF	
2023/01801	INHIBITORS OF SARM1	2023/02/14
2023/01873	PHARMACOLOGICALLY ACTIVE	2023/02/15
	HETEROCYCLIC-SUBSTITUTED	
2022/01007		2022/02/17
2023/01997	APPLICATION AND SEALING OF	2023/02/17
	END CLOSURES ON CONTAINERS	
2023/01998	SYSTEMS AND METHODS FOR THE	2023/02/17
	APPLICATION AND SEALING OF	
	END CLOSURES ON CONTAINERS	
2023/01999	CONTAINER ASSEMBLIES WITH	2023/02/17
	PAPER-BASED END CLOSURES	2222/22/4 <b>7</b>
2023/02000	PROCESS AND SYSTEM TO UTILIZE	2023/02/17
	POLYMERIZATION PROCESS	
2023/02073	SYSTEMS AND METHODS FOR	2023/02/20
	SWITCHING ZERO CHARGE	
	CALLERS	
2023/02172	ROASTING APPARATUS	2023/02/21
2023/02266	COVERAGE ENHANCEMENT OF	2023/02/22
	MSG3 AND MSGA TRANSMISSIONS	
2022/02280		2022/02/22
2023/02209		
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2023/03718 ADDITIVE TO RE PARTICULATE M EMISSIONS DER COMBUSTION O	E, AND DF 2,4,6- G-(1-METHYL- ARBONYL)- ENZAMIDE	
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2023/03736 METHODS AND U PRODUCING CO STABLY COMPR AVAILABLE CHLO AND PEROXIDES	JSES OF MPOSITIONS ISING FREE ORINE SPECIES	2023/03/22
2023/03784 PROCESS FOR F IMPURITIES IN T LITHIUM-ION BA	REMOVING HE RECYCLING OF ITERIES	2023/03/23
2023/03863 NEW COMPOUN AS THERAPEUTI SUBSTANCES IN AND/OR PREVEN DISEASES INVOI RETINAL PIGMEI	DS AND THEIR USE CALLY ACTIVE I THE TREATMENT ITION OF _VING THE NT EPITHELIUM	2023/03/27
2023/03864 MICROBIOME SIG CHARCATRIZATI	GNATURE FOR THE ON OF SKIN TYPES	2023/03/27

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2023/03870	FOOD PRODUCTS	2023/03/27
2023/03943	NOVEL BIARYL DERIVATIVE USEFUL AS DIACYLGLYCEROL ACYLTRANSFERASE 2 INHIBITOR, AND USE THEREOF	2023/03/29
2023/03958	HELIOSTAT CALIBRATION	2023/03/29
2023/03999	DEFORMABLE PRE-PACKAGED DEVICE FOR INJECTING A LIQUID	2023/03/20
2023/04064	QUINOLINE CGAS ANTAGONIST COMPOUNDS	2023/03/31
2023/04093	NEUREGULIN-4 COMPOUNDS AND METHODS OF USE	2023/04/03
2023/04174	CRUSHING LOAD CONTROL CIRCUITRY OF CRUSHER AND METHOD OF CONTROLLING CRUSHING LOAD OF CRUSHER	2023/04/05
2023/04276	A MINE PROP	2023/04/11
2023/04290	NUCLEIC ACID CONSTRUCTS, VIRAL VECTORS AND VIRAL PARTICLES	2023/04/11
2023/04329	SYSTEM AND METHOD FOR EXECUTING FINANCIAL TRANSACTION	2023/04/12
2023/04432	AUTOMATIC DRILLING HOIST SPEED	2023/04/14
2023/04434	DEVICE AND METHOD FOR DETERMINING AND USING A SURPLUS OF AVAILABLE ELECTRICAL POWER GENERATED BY A SOLAR PHOTOVOLTAIC GENERATOR	2023/04/14
2023/04469	WALL MOUNTABLE BRACKET ASSEMBLY	2023/04/17
2023/04536	USE OF THERAPEUTIC ENZYME FUSION PROTEIN IN PREVENTING AND TREATING NEUROPATHY ATTRIBUTED TO OR ASSOCIATED WITH FARBRY'S DISEASE	2023/04/19
2023/04584	METHODS AND RAPID TEST KITS FACILITATING EPIDEMIOLOGICAL SURVEILLANCE	2023/04/20
2023/04694	IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION	2023/04/24
2023/04696	MOVABLE AND MODULAR HOUSING STRUCTURE	2023/04/24
2023/04701	METHOD FOR ESTIMATING A PAYLOAD OF A HYDRAULIC MINING SHOVEL	2023/04/24
2023/04704	WEAR AND LOSS DETECTION SYSTEM AND METHOD USING	2023/04/24

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2022/04705	BUCKET-TOOL TEMPLATES	2022/04/24
2023/04703	AND LOSS DETECTION SYSTEM	2023/04/24
	AND METHOD	
2023/04720	FILTRATION DEVICE HAVING A	2023/04/24
	LATCH MECHANISM	
2023/04733	METHOD FOR CALCULATING BULK	2023/04/24
	MATERIAL CONVEYING RATES OR	
	BULK MATERIAL LOADS OF A	
0000/04700		0000/04/04
2023/04736		2023/04/24
2023/04766		2023/04/25
2023/04/79		2023/04/23
	OF THE CORONAVIRUS SPIKE	
	PROTEIN AND COMPOSITIONS	
	COMPRISING THEREOF	
2023/04797	PERSONAL PROTECTION	2023/04/26
	EQUIPMENT NETWORK (PPE-N)	
2023/04853	AUTONOMOUS ROOF BOLTER	2023/04/28
	WITH SENSOR AND RELATED	
2022/04207		2022/04/20
2023/04867		2023/04/28
2023/04914		2023/05/02
	UNITARY ARTICLE FROM PULP	
2023/04931	GLUTAMATE-CYSTEINE LIGASE	2023/05/03
	VARIANT AND METHOD FOR	
	PRODUCING GLUTATHIONE USING	
	SAME	
2023/04941	MOISTURE SEPARATOR UNIT OF	2023/05/03
2023/04952		2023/05/04
2023/04957	MEMBRANE-BASED HYDROGEN	2023/05/04
2020/04001	PURIFIERS	2020/00/04
2023/04965	COMBINATION THERAPY FOR	2023/05/04
	TREATING CANCER	
2023/04972	SAFETY BOOT	2023/05/04
2023/05009	PROCESS FOR PREPARATION OF	2023/05/05
	PURE NALTREXONE DECANOATE,	
	ITS SALTS, COMPOSITION AND	
2022/05021		2022/05/05
	AND PHOSPHONATE	
2023/05073	COMBINATION OF ANTIBODY-	2023/05/08
	DRUG CONJUGATE AND PARP1	
	SELECTIVE INHIBITOR	
2023/05083	LAUNDRY SOAP BAR	2023/05/08
	COMPOSITION	
2023/05085	PROGRAMMABLE NON-EXPLOSIVE	2023/05/08

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	ELECTRONIC INITIATOR FOR ROCK	
	BLASTING, AND EXUTHERIMIC	
	OF THE INITIATOR	
2023/05088	A HARD SURFACE CLEANING	2023/05/08
	COMPOSITION	
2023/05089	DETERGENT COMPOSITIONS	2023/05/08
2023/05121	PLASTER COMPOSITION FOR FIRE	2023/05/09
	RESISTANT PLASTERBOARD	
2023/05155	ORAL FORMULATION COMPRISING	2023/05/10
	1-(3-CTANO-1-15OPROPTL-INDOLE-5-VL) DVDA7OLE-4-CAPBOXVLIC	
	ACID AND METHOD FOR	
	PREPARING SAME	
2023/05156	STABLE ORAL FORMULATION	2023/05/10
	CONTAINING 1-(3-CYANO-1-	
	ISOPROPYL-INDOL-5-	
2022/05167		2022/05/40
2023/05167	GRID	2023/05/10
2023/05212	CONTINUOUS LACTOSE	2023/05/11
	HYDROLYSIS IN MILK AND OTHER	
	DAIRY PRODUCTS	
2023/05214	METHOD FOR PREPARING L-	2023/05/11
	GLUFOSINATE	
2023/05217	ANTI-TIGIT ANTIBODY, AND	2023/05/11
2023/05219		2023/05/11
	MICROPHONE MODULE	
2023/05241	LIQUID NICOTINE FORMULATION	2023/05/12
	AND CARTRIDGE FOR AN	
0000/05054	AEROSOL-GENERATING SYSTEM	0000/05/40
2023/05251		2023/05/12
	HAVING LOW SUI FUR AND	
	SULFATED ASH CONTENT AND	
	CONTAINING MOLYBDENUM AND	
	BORON COMPOUNDS	
2023/05254	COMPOSITION AND METHOD FOR	2023/05/12
	INGREDIENT IN COMBINATION	
	WITH A SECOND ACTIVE	
	INGREDIENT	
2023/05291	NEEDLE SET FOR LAPAROSCOPY	2023/05/15
	AND KNOTTING DEVICE HAVING	
2022/05202		2022/05/15
2023/03292		2023/03/13
2023/05294	MULTIPLEXED METHOD FOR	2023/05/15
2020/00201		

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	ASSESSING GLOBAL OR GENOMIC LOCUS-SPECIFIC LEVELS OF CHROMATIN MODIFICATION	
2023/05324	WORK IMPLEMENT ASSEMBLY USING ADAPTERS, ADAPTER COVERS, AND A NOTCHED BASE EDGE	2023/05/16
2023/05325	WORK IMPLEMENT ASSEMBLY USING ADAPTERS, ADAPTER COVERS, AND A NOTCHED BASE EDGE	2023/05/16
2023/05326	ADAPTER FOR ATTACHING A TOOL TO A WORK IMPLEMENT	2023/05/16
2023/05329	MULTI-SPECIFIC ANTIBODIES AND ANTIBODY COMBINATIONS	2023/05/16
2023/05336	A SUBSTITUTED TETRAHYDROISOQUINOLINE DERIVATIVE AS A D1 POSITIVE ALLOSTERIC MODULATOR	2023/05/16
2023/05337	ALOE EXTRACTS FOR MICROBIAL NEUTRALISATION	2023/05/16
2023/05379	DETONATOR SUPPORT DEVICE FOR CHARGING A BLASTHOLE, BLASTING SYSTEM, METHOD OF PREPARING A DETONATOR SUPPORT DEVICE, EXPLOSIVE MATERIAL CHARGING VEHICLE AND DATA MEDIUM	2023/05/17
2023/05380	A BLASTING SYSTEM AND A METHOD OF EXPLOSIVE MATERIAL CHARGING	2023/05/17
2023/05381	EXPLOSIVE MATERIAL CHARGING DEVICE FOR CHARGING A BOREHOLE METHOD OF POSITIONING AN EXPLOSIVE MATERIAL CHARGING DEVICE EXPLOSIVE MATERIAL CHARGING VEHICLE AND DATA MEDIUM	2023/05/17
2023/05421	PEPTIDE CROSSLINKING AGENT AND CROSSLINKED PEPTIDE WHICH IS CROSSLINKED USING SAID CROSSLINKING AGENT	2023/05/18
2023/05422	RAW MATERIAL FOR ANIMAL NUTRITION COMPRISING AN ORGANO-MINERAL COMPLEX CONTAINING DIETARY PHOSPHATE AND A HUMIC SUBSTANCE	2023/05/18
2023/05423	FERTILIZING AND/OR SOIL CONDITIONING COMPOSITION INTENDED FOR CULTURE SUBSTRATES AND/OR CULTURE SOLUTIONS	2023/05/18
2023/05424	ADAMTS13 VARIANT HAVING	2023/05/18

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	INCREASED ESCAPING RATE OR ACTIVITY AGAINST AUTOANTIBODY	
2023/05436	RENEWABLE HYDROCARBON COMPOSITION HAVING GOOD CETANE NUMBER AND GOOD COLD PROPERTIES	2023/05/18
2023/05466	METHOD FOR REMANUFACTURING INTERNAL SPLINE COMPONENTS	2023/05/19
2023/05511	SYSTEMS AND METHODS FOR DETERMINING WATER DEPTH AND EXPLOSIVE DEPTH IN BLASTHOLES	2023/05/22
2023/05530	FUEL FILTER PASSAGE FOR DOWNWARD FUEL FLOW DIRECTION	2023/05/22
2023/05552	SOAP BAR COMPOSITION	2023/05/23
2023/05553	AQUEOUS CLEANING COMPOSITION	2023/05/23
2023/05554	A HARD SURFACE CLEANING COMPOSITION	2023/05/23
2023/05555	COMPOSITION FOR MAKING BOUILLONS	2023/05/23
2023/05556	PROLIPID COMPOSITION FOR PERSONALIZED BENEFITS AND METHOD FOR USING THE SAME	2023/05/23
2023/05558	AN ANTIPERSPIRANT COMPOSITION	2023/05/23
2023/05559	COMPOSITION	2023/05/23
2023/05560	COMPOSITION	2023/05/23
2023/05561	TOPICAL SANITISING COMPOSITION COMPRISING MINIMAL AMOUNTS OF AN ANITMICROBIAL LIPID	2023/05/23
2023/05562	COMPOSITION	2023/05/23
2023/05563	COMPOSITION	2023/05/23
2023/05564	PERSONAL CARE COMPOSITION COMPRISING GLYCINATE SURFACTANT, POLYOL AND NONIONIC SURFACTANT COMPRISING ALKYL GLUCOSIDE	2023/05/23
2023/05590	CRYSTAL FORM IV OF MELANOCORTIN RECEPTOR AGONIST COMPOUND, AND PREPARATION METHOD THEREFOR	2023/05/24
2023/05591	AMORPHOUS MELANOCORTIN-4 RECEPTOR AGONIST	2023/05/24
2023/05592	PROCESS FOR PRODUCING FOAM PANELS FOR THE PRODUCTION OF FOAM FILMS	2023/05/24
2023/05593	CRYSTALLINE FORM III OF MELANOCORTIN RECEPTOR	2023/05/24

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	AGONIST COMPOUND AND	
	METHOD FOR PREPARING SAME	
2023/05594	CRYSTALLINE FORM I OF MELANOCORTIN RECEPTOR AGONIST COMPOUND, AND METHOD FOR PREPARING SAME	2023/05/24
2023/05595	CRYSTAL TYPE II OF MELANOCORTIN RECEPTOR AGONIST COMPOUND AND METHOD FOR PREPARING SAME	2023/05/24
2023/05603	TRAY FOR FARMING INSECTS, SUITABLE FOR INDUSTRIAL-SCALE FARMING	2023/05/24
2023/05642	ANTI-TSPAN8/ANTI-CD3 BISPECIFIC ANTIBODY AND ANTI-TSPAN8 ANTIBODY	2023/05/25
2023/05643	SPEAKER MODULE STRUCTURE AND ELECTRONIC DEVICE COMPRISING SAME	2023/05/25
2023/05644	PROCESS FOR PRODUCTION OF ACETIC ACID AND ACRYLIC ACID FROM WASTE CARBON CONTAINING MATERIALS WITH REDUCED CARBON FOOTPRINT	2023/05/25
2023/05646	NOVEL COMPOUND, PREPARATION METHOD THEREOF, AND ANTIBIOTIC COMPOSITION COMPRISING SAME	2023/05/25
2023/05648	PROTECTIVE CAPSULES FOR EARTH MOVING MACHINES HAVING A SLOT ANTENNA	2023/05/25
2023/05649	CAMERA MODULE AND ELECTRONIC DEVICE COMPRISING SAME	2023/05/25
2023/05664	A MULTI-TERRAIN MODE SELECTING SYSTEM FOR A VEHICLE	2023/05/24
2023/05692	CURRENCY MANAGEMENT SYSTEM AND ELECTRONIC SIGNATURE DEVICE	2023/05/26
2023/05693	ELEMENT FOR SEPARATING A LIQUID MEDIUM WITH HIGH PARIETAL SHEAR STRESS	2023/05/26
2023/05696	METHOD FOR SYNTHESISING FUNCTIONALISED MERCAPTANS UNDER H2S PRESSURE	2023/05/26
2023/05745	AIRFOIL WITH AUGMENTED LIFT	2023/05/29
2023/05798	BALL FLOAT VENT VALVE	2023/05/30
2023/05826	UNFILLED POLYPROPYLENE COMPOSITION AND A PROCESS FOR ITS PREPARATION	2023/05/31
2023/05828	VIDEO CODING USING A CODED	2023/05/31

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2023/05840	METHOD FOR PREPARING CRYSTALLINE PARTICLES OF 1-(3- CYANO-1-ISOPROPYL-INDOLE-5- YL)PYRAZOLE-4-CARBOXYLIC ACID, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME	2023/05/31
2023/05845	HETEROARYL CARBOXAMIDE COMPOUND	2023/05/31
2023/05900	FEED ADDITIVE	2023/06/02
2023/06109	ONLINE CHROMATOGRAPHY AND ELECTROSPRAY IONIZATION MASS SPECTROMETER	2023/06/09
2023/06152	ANTENNA AND COMMUNICATION DEVICE	2023/06/09
2023/06302	ANTI-CANCER COMPOSITION	2023/06/15
2023/06411	NOVEL PROTECTIVE BARRIER COMPOSITIONS, AND USES THEREOF	2023/06/21
2023/06529	FAST CURE AQUEOUS PAINT COMPOSITION	2023/06/23
2023/06569	PSMA-TARGETING CONJUGATE AND USES THEREOF	2023/06/26
2023/06586	PNEUMATIC DEVICE	2023/06/27
2023/06812	DE-EXCITING SYSTEM FOR INDUCTIVE CIRCUITS	2023/07/04
2023/06838	DIFFUSING ALPHA-EMITTERS RADIATION THERAPY WITH ENHANCED BETA TREATMENT	2023/07/05
2023/06888	METHOD OF CHARACTERIZATION OF VISIBLE AND/OR SUB-VISIBLE PARTICLES IN BIOLOGICS	2023/07/07
2023/06889	QUANTITATION AND IDENTIFICATION OF DIMERS IN CO- FORMULATIONS	2023/07/07
2023/06986	OFFBOARD MONITORING SYSTEM	2023/07/11
2023/07145	IRIDIUM-CONTAINING CATALYST FOR WATER ELECTROLYSIS	2023/07/17
2023/07230	RADIOTHERAPY APPLICATOR	2023/07/19
2023/07290	PYRAZOLOPYRIDINE DERIVATIVES AND USES THEREOF	2023/07/21
2023/07291	HIGH OCTANE UNLEADED AVIATION GASOLINE	2023/07/21
2023/07369	CLOSURE DEVICE	2023/07/25
2023/07690	PLANT AND METHOD FOR CLASSIFYING SCRAP	2023/08/03
2023/07767	A STOVE	2023/08/08
2023/08182	FARM IRRIGATION WHEEL	2023/08/22
2023/08404	COFFIN TRANSPORT APPARATUS WITH REUSABLE HANDLES	2023/08/31
2023/08523	TRAILER COUPLING FOR VEHICLES	2023/09/05
2023/08543	DESALINATION DEVICE AND	2023/09/04

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	PROCESS FOR RECOVERY AND VALORISATION OF CHLORIDES IN DILUTE SOLUTIONS	
2023/08544	CATHETER VALVE FOR CONTROLLING THE FLUID FLOW OF A MEDIUM	2023/09/05
2023/09002	MOTION VECTOR (MV) CONSTRAINT AND TRANSFORM CONSTRAINT IN VIDEO CODING	2023/09/22
2023/09301	SUPPORTED NICOTINE COMPOSITION	2023/10/04
2023/09396	METHOD AND SYSTEM FOR ASSESSING WATER ECOLOGICAL ENVIRONMENT QUALITY BASED ON FISH MONITORING	2023/10/09
2023/09462	CRYSTAL FORM OF PYRIDINE NITROGEN OXIDE COMPOUND AND USE THEREOF	2023/10/10
2023/09480	DEVICE FOR TRANSFERRING EXHAUST GAS BETWEEN A FRONT AND REAR CARRIAGE OF A MOBILE WORKING MACHINE SEPARATED BY AN ARTICULATED PIVOT JOINT	2023/10/11
2023/09616	RESET DYNAMIC ADDRESS TRANSLATION PROTECTION INSTRUCTION	2023/10/13
2023/09832	METHOD FOR SIMULTANEOUSLY DETECTING 8 GLYCOSIDIC AROMA PRECURSORS IN TEA LEAVES	2023/10/23
2023/10142	STRETCHABLE PERMEABLE BARRIER SYSTEM	2023/10/31
2023/10148	INTEGRATED SELF-LOCKING TROLLEY SYSTEM	2023/10/31
2023/10396	A MINIATURE QUANTITATIVE POLYMERASE CHAIN REACTION APPARATUS	2023/11/08
2023/10408	MEDICAL PENETRATION DEVICE AND SYSTEM	2023/11/08
2023/10617	LIQUID POOL SIDE WALL WELDING DEVICE AND WELDING METHOD	2023/11/15
2023/10714	A HYDROGENATION CATALYST AND ITS PRECURSOR COMPRISING NI, AL, AND A SUPPORT MATERIAL COMPRISING SIO2	2023/11/20
2023/11106	SYSTEMS AND METHODS FOR IDENTIFYING SUBSURFACE HYDROGEN ACCUMULATION	2023/11/30
2023/11117	AN ECOLOGICAL GREEN WALL FOR WASTEWATER TREATMENT	2023/12/01
2023/11211	GLAZING COMPRISING A FUNCTIONAL COATING AND AN ABSORBING ELEMENT	2023/12/05

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2023/11428	PROCESSES FOR DEHYDROGENATING ALKANE AND ALKYL AROMATIC HYDROCARBONS	2023/12/12
2023/11431	MACHINE FOR INJECTING EGGS AND METHOD FOR INJECTING AT LEAST ONE FLUID SUBSTANCE INTO EGGS	2023/12/12
2023/11437	CHICKEN LOW-DENSITY LIQUID SNP CHIP BASED ON TARGETED CAPTURE AND SEQUENCING AND USE THEREOF	2023/12/12
2023/11526	CONVEYOR IDLERS REPLACEMENT SYSTEM	2023/12/14
2023/11536	ANCHOR ASSEMBLY	2023/12/14
2023/11538	METHOD AND SYSTEM EMBODIMENTS FOR CONVERTING ETHANOL TO PARA-XYLENE AND ORTHO-XYLENE	2023/12/14
2023/11586	CELL BASED MULTILEVEL CONVERTER WITH MULTIPLE OPERATING MODES AND ASSOCIATED CONTROL METHOD	2023/12/18
2023/11657	PASSIVELY HEATED THERMAL BATTERY	2023/12/20
2023/11658	INITIATION COMPONENT OF AN LE- EFI INITIATION MODULE	2023/12/20
2023/11660	A SYSTEM AND A METHOD FOR GESTURE CONTROLLED OUTSIDE REAR VIEW MIRRORS OF A VEHICLE	2023/12/20
2023/11669	THEFT RESISTANT SOLAR END BRACKET	2023/12/20
2023/11690	A SYSTEM AND METHOD FOR FACILITATING RULE-BASED PARTIALLY ONLINE AND OFFLINE PAYMENT TRANSACTIONS	2023/12/20
2023/11692	CELL, BATTERY PACK, AND ELECTRICITY-CONSUMPTION DEVICE	2023/12/20
2023/11707	FLUIDIZED BED REACTOR, AND DEVICE AND METHOD FOR PREPARING LOW-CARBON OLEFIN	2023/12/20
2023/11716	INTRANET PENETRATION TEST CONTROL METHOD AND APPARATUS AND SAAS SERVER	2023/12/20
2023/11741	BI-INJECTION MOLDED HOUSING OF A LOCKING CAP FOR A PHARMACEUTICAL VIAL	2023/12/21
2023/11756	METHOD AND SYSTEM FOR ANALYZING RISK DEGREE OF FLASH FLOOD DITCH BASED ON	2023/12/21

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	COMPREHENSIVE FEATURES OF MICRO-DRAINAGE BASIN	
2023/11758	A UNIDIRECTIONAL FUEL NOZZLE FOR IMPROVING FUEL ATOMIZATION IN A CARBURETOR OR SIMILAR APPARATUS	2023/12/21
2023/11770	TISSUE CULTURE VESSEL FOR PREPARATION OF COMPRESSED HYDROGEL SKIN GRAFTS AND RELATED METHODS AND SYSTEMS	2023/12/21
2023/11778	IMPROVED METHOD FOR DETERMINING THE SEX OF A CHICK	2023/12/21
2023/11784	METHOD FOR INSPECTING, AS THEY PASS, EGGS PLACED IN CONTAINERS	2023/12/21
2023/11785	METHOD FOR PRODUCING ELECTRICITY BY MEANS OF AN INSTALLATION INTENDED TO BE PLACED IN A BODY OF WATER	2023/12/21
2023/11786	IMPROVED PROP ASSEMBLIES	2023/12/21
2024/00017	SAFETY LIGHT CLUSTER FOR A VEHICLE	2024/01/02
2024/00024	EXTREME LEARNING MACHINE BASED METHOD FOR EVALUATING OPERATION STATE OF RAILWAY RELAY	2024/01/02
2024/00025	WEARABLE PASSIVE LICE ELIMINATOR	2024/01/02
2024/00087	NEURAL NETWORK ACCELERATOR	2024/01/02
2024/00094	FORMULATION OF MICROPARTICLES BASED ON POLYPHENOLIC COMPOUNDS CAPABLE OF SCAVENGING FREE RADICALS PRESENT IN POLLUTED AIR AND IN SMOKE	2024/01/02
2024/00096	RECOMBINANT PROTEINS, COMPOSITIONS AND METHODS OF STABILIZATION THEREOF	2024/01/02
2024/00100	NEW SOLVENT-BASED DILUANT FOR GLASS SLURRY AND PREPARING METHOD	2024/01/02
2024/00106	SMART PILL DISPENSER PRESCRIPTION TREATMENT SYSTEM	2024/01/02
2024/00136	TRANSLATING AND STATION- CROSSING TOOL FOR SHIELD MACHINE	2024/01/03
2024/00180	WIRING HARNESS MODULE AND COMBINED WIRING HARNESS	2024/01/04
2024/00210	ELECTRONIC PADLOCK	2024/01/05
2024/00217	SYNERGISTIC ANTIMICROBIAL	2024/01/05

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	COMPOSITIONS CONTAINING SELECTED PEPTIDES AND FATTY ACIDS	
2024/00218	A TEA ROLLING PROCESSING EQUIPMENT FOR TEA PRETREATMENT AND A PROCESSING METHOD THEREOF	2024/01/05
2024/00228	COMBINATION THERAPIES FOR TREATMENT OF LIVER DISEASES	2024/01/05
2024/00239	SYSTEM AND METHOD UTILIZING ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGY FOR EMERGENCY DETERMINATION	2024/01/08
2024/00245	FLUID ENTRAINMENT APPARATUS, SYSTEM AND METHOD FOR GENERATING BUBBLES, INCLUDING MICRO AND ULTRAFINE BUBBLES, IN A LIQUID	2024/01/08
2024/00256	CURRENT COLLECTING COMPONENT, BATTERY AND BATTERY MODULE	2024/01/08
2024/00293	AN INERTER BASED BASE ISOLATION SYSTEM USING LINEAR MOTION GUIDE AND TENSION SPRINGS	2024/01/09
2024/00295	A DEEP HOLE PULLING ROD AND DRILL BIT POSITIONING AUXILIARY DEVICE FOR ANCHOR BOLT MACHINE AND ITS USE METHOD	2024/01/09
2024/00302	OCULAR INJECTION ASSEMBLY, INJECTION DEVICE AND METHOD OF USING THE SAME	2024/01/09
2024/00303	METHOD AND APPARATUS FOR MEASURING SURFACE TEMPERATURE OF OBJECT	2024/01/09
2024/00305	FORMING PROCESS FOR ALUMINUM ALLOY BRACKET OF SOLAR PHOTOVOLTAIC PANEL	2024/01/09
2024/00346	HIGH-PURITY AND HIGH-YIELD 4- BROMOFLUOROBENZENE SYNTHESIS METHOD	2024/01/10
2024/00347	METHOD FOR SYNTHESIZING CHLORFENAPYR	2024/01/10
2024/00375	AN AIR RELEASE VALVE	2024/01/10
2024/00385	PROTEIN HRZ FOR REGULATING CONTENT OF IRON IN CORN AND CODING GENE AND APPLICATIONS THEREOF	2024/01/11
2024/00426	WATER SAVING VALVE	2024/01/12
2024/00440	DEVICE, NON-REMOVAL	2024/01/12

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	CORRECTION METHOD	
2024/00450	AN INCENTIVE SYSTEM	2024/01/12
2024/00483	DEBRIS BRICK AND PREPARATION	2024/01/15
	METHOD THEREOF	
2024/00485	A PREFABRICATED	2024/01/15
	COMPREHENSIVE ANTI-SEISMIC	
	SUPPORT AND HANGER FOR RAIL	
2024/00520		2024/01/16
2024/00320	ASSEMBLY	
2024/00523	CYLINDRICAL TERMINAL. PLUG-IN	2024/01/16
	CONNECTION STRUCTURE, AND	
	METHOD FOR MACHINING	
	CYLINDRICAL TERMINAL	
2024/00524	PLUG-IN TERMINAL, MATING PLUG-	2024/01/16
	IN CONNECTION STRUCTURE, AND	
2024/00522		2024/04/40
2024/00532		2024/01/16
	ENGINEERED OUGOPOTENT STEM	
	CELLS	
2024/00581	TERMINAL HAVING STAMPING	2024/01/17
	ELASTIC SHEET STRUCTURE	
2024/00583	TERMINAL HAVING MEMORY RING	2024/01/17
2024/00584	A WAVE GENERATING	2024/01/17
	INSTALLATION AND METHOD	0004/04/47
2024/00594	GLASS MATERIAL, AND	2024/01/17
	THEREOF	
2024/00595	SPIROCYCLIC COMPOUNDS	2024/01/17
2024/00602	CALIBRATED FLOW RATE SENSING	2024/01/17
	AND FLOW CONTROL DEVICE	
2024/00603	MEASUREMENT TOOL	2024/01/17
	INSTALLATION APPARATUS AND	
		0001/01/10
2024/00616		2024/01/18
	CLEANING NOZZLE	
2024/00625		2024/01/18
	FUNCTION. CURRENT	
	TRANSMISSION DEVICE, AND	
	ELECTRIC VEHICLE	
2024/00711	DRYLAND COLOR RICE	2024/01/22
	LANDSCAPE PLANTING METHOD	
2024/00712	SELECTION METHOD AND	2024/01/22
	STARTING TEMPERATURES IN	
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	RICE	
2024/00713	IMMEDIATE ROCKBURST TENDENCY GRADE DISCRIMINATION METHOD	2024/01/22
2024/00714	COMBINED INFLUENZA-COVID-19 SUBUNIT VACCINE AND PREPARATION METHOD AND APPLICATION THEREOF	2024/01/22
2024/00715	ENERGY-SAVING WATER DRAINAGE DEVICE AND METHOD AT REVERSE SLOPE CONSTRUCTION STAGE OF LONG AND LARGE TUNNEL IN MOUNTAINOUS AND HILLY AREA	2024/01/22
2024/00716	APPLICATION OF RECOMBINANT PROTEIN RV3921C OF MYCOBACTERIUM TUBERCULOSIS IN PREPARATION OF TUBERCULOSIS VACCINE	2024/01/22
2024/00778	METHOD FOR ANALYSING OBSTETRICS AND GYNECOLOGY INFORMATION BASED ON COMMUNITY-BASED MATERNITY DATA STREAMS	2024/01/23
2024/00779	MODULAR ASSEMBLY-TYPE HOUSE QUICK-INSTALLATION STRUCTURE AND ASSEMBLY METHOD	2024/01/23
2024/00811	A STRESS CONCENTRATION DEVICE	2024/01/24
2024/00814	METHOD FOR ANALYSIS AND PREPARATION OF DIACETYL COREY LACTONE AS CHIRAL INTERMEDIATE OF PROSTAGLANDIN DRUG	2024/01/24
2024/00842	DATA FORWARDING METHOD BASED ON SERIAL PROTOCOL FOR BLUETOOTH GATEWAY	2024/01/25
2024/00861	AN ATMOSPHERIC WATER GENERATING DEVICE AND A METHOD OF ACTIVE OR ADAPTIVE ATMOSPHERIC WATER GENERATION	2024/01/25
2024/00863	IMPROVED APPARATUS FOR TREATING SLEEP DISORDERS	2024/01/25
2024/00869	NETRIN-1 DETECTION, COMPANION TEST AND THERAPY BASED ON RADIATIONS	2024/01/25
2024/00877	HEALTH MANAGEMENT SYSTEM BASED ON MOBILE COMMUNICATION	2024/01/26
2024/00878	A METHOD AND A SYSTEM FOR MONITORING THE GROWTH	2024/01/26

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	PROCESS OF CROP BASED ON REMOTE SENSING IMAGE	
2024/00879	A REMOTE SENSING DETECTION AND EVALUATION METHOD FOR SALINE-ALKALI LAND	2024/01/26
2024/00890	ZN-CUGAO2@CMK-3 COMPOSITE MATERIAL, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2024/01/26
2024/00893	DRAWER TRACK COMBINING EXTRUDED ALUMINUM PROFILES AND SPHERICAL BEARINGS, AND VEHICLE-MOUNTED STORAGE DRAWER THEREOF	2024/01/26
2024/00895	SYSTEM FOR MANAGING HEALTH DATA UTILIZING RADIO FREQUENCY CHIP	2024/01/26
2024/00898	CROSS-SATELLITE ORBIT HEALTH DATA TRANSMISSION SYSTEM	2024/01/26
2024/00900	UNDERGROUND DRILL RIG AND SYSTEMS AND METHODS OF USING SAME	2024/01/26
2024/00901	METHOD FOR QUBIT-BASED MANAGEMENT OF SLEEP DATA	2024/01/26
2024/00935	NETWORK SECURITY PROTECTION TERMINAL	2024/01/29
2024/00941	SOIL INFORMATION ACQUISITION AND FEEDBACK DEVICE BASED ON INTERNET OF THINGS	2024/01/29
2024/00950	TRANSCRIPTION ACTIVATOR-LIKE EFFECTORS FUSED TO INTEINS	2024/01/29
2024/00978	A ZONING WATER PREVENTING METHOD FOR HEAVY-WATER DEPOSITS	2024/01/30
2024/01023	SUN PROTECTIVE SPORTS GARMENT	2024/01/31
2024/01042	PROTEIN COMPOSITIONS FOR THE TREATMENT OF INFLAMMATORY DISEASES	2024/01/31
2024/01063	A VISUAL DETECTION METHOD OF BOVINE CORONAVIRUS AND APPLICATION THEREOF	2024/02/01
2024/01069	DEVICE FOR USE IN A RETAIL PRODUCT DISPLAY AND SHELF ORGANIZATION	2024/02/01
2024/01111	A LINEAR ANALYSIS DISPLAY DEVICE FOR ECONOMIC MANAGEMENT	2024/02/05
2024/01128	PROGNOSTIC BIOMARKER FOR HNSCC AND SCREENING METHOD AND APPLICATION THEREOF	2024/02/05
2024/01129	A MICROFLUIDIC CHIP AND ITS	2024/02/05
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2024/01135	APPLICATIONS     TRANSFER MECHANISM FOR     POWER TRANSMISSION,     CHARGING SOCKET, AND MOTOR     VEHICLE	2024/02/05
2024/01137	SELF-LUBRICATING HIGH- DURABILITY NATURAL RUBBER MATERIAL AND PREPARATION METHOD THEREFOR	2024/02/05
2024/01153	FLAVORED CORE-SHELL CAPSULES FILM-COATED WITH POLYVINYLIDENE CHLORIDE	2024/02/05
2024/01157	CARBON DIOXIDE MICROCHANNEL ELECTROLYSIS DEVICE AND METHOD	2024/02/06
2024/01158	PLANT PLANTING TANK FOR ECOLOGICAL RESTORATION	2024/02/06
2024/01159	PHOTOVOLTAIC POWER SUPPLY SYSTEM FOR LARGE PUBLIC BUILDINGS	2024/02/06
2024/01161	LOW-CARBON CEMENTITIOUS MATERIAL OF SILICON- MANGANESE SLAG FOR FILLING, PREPARATION METHOD AND APPLICATION THEREOF	2024/02/06
2024/01164	PHOTOVOLTAIC GRID-CONNECTED POWER GENERATION SYSTEM FOR RURAL USERS	2024/02/06
2024/01165	WOOD-BASED POROUS CARBON FOR HIGH PERFORMANCE ENERGY STORAGE DEVICE	2024/02/06
2024/01179	A DEVICE FOR DELIVERY OF AEROSOLIZED DRUG IN A PORTION OF A BODY	2024/02/06
2024/01190	SUPERHYDROPHILIC AND COMPRESSIBIE AEROGEL WITH REGULAR PORE ARCHITECTURE FOR SENSOR	2024/02/07
2024/01191	SYSTEM AND METHOD FOR LOCATING SURFACE DAMAGE OF LARGE-SCALE EQUIPMENT BASED ON UWB TECHNOLOGY	2024/02/07
2024/01198	METHOD FOR ACTIVATING EXPRESSION OF SILENCED GLU- 1AX-NULL SUBUNIT IN WHEAT AND RELATED BIOMATERIALS	2024/02/07
2024/01207	STANDBY POWER CUT-OFF DEVICE	2024/02/07
2024/01226	ENERGY EFFICIENT MOTOR- GENERATOR	2024/02/07
2024/01235	INSERTION STRUCTURE OF FLAT BELT AND TERMINAL, AND MOTOR	2024/02/08

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	VEHICIE	
2024/01258	SHAPING AND BEAUTIFYING METHOD	2024/02/09
2024/01261	ORTHOPEDIC SPRING HINGE SYSTEMS AND METHODS	2024/02/09
2024/01273	DEVICE, COMPONENTS, AND KITS FOR APPLYING HAIR COMPOSITIONS AND THE MANUFACTURE AND USE THEREOF	2024/02/09
2024/01283	PROCESS FOR THE PREPARATION OF POLYCARBODIIMIDES WITH AZIRIDINE FUNCTIONS, WHICH MAY BE USED AS CROSSLINKING AGENT	2024/02/09
2024/01294	AN ARTIFICIAL INTELLIGENCE (AI) BASED WASTE MANAGEMENT SYSTEM	2024/02/12
2024/01327	IMPELLER FOR A DUCT	2024/02/13
2024/01354	RENEWABLE ENERGY SYSTEM	2024/02/14
2024/01411	DATA ANALYTICS IN SUPPLY CHAIN	2024/02/15
2024/01412	WEAR ELEMENT ASSEMBLIES FOR EARTH MOVING MACHINES WITH WIRED CONNECTION AND PROTECTIVE DEVICE THEREFOR	2024/02/15
2024/01421	GERMINATION DEVICE	2024/02/16
2024/01446	A CUSTOMISABLE IDENTITY BASED LLM MODEL FOR A MUSEUM QUIZZING ROBOT DEVICE	2024/02/19
2024/01447	AN AIGC-BASED MULTI-SCENE CONTENT CREATION AND APPLICATION SYSTEM FOR MUSEUMS	2024/02/19
2024/01448	AN IMAGE RECOGNITION SYSTEM AND DEVICE FOR CULTURAL CENTER BASED ON AIGC	2024/02/19
2024/01449	A METHOD, DEVICE FOR MODELING BONE REPAIR BASED ON GPT TECHNOLOGY	2024/02/19
2024/01453	PORTABLE GEOGRAPHIC INFORMATION SURVEYING INSTRUMENT	2024/02/19
2024/01454	DEVICE AND METHOD FOR MAINTAINING RAIL SURFACE	2024/02/19
2024/01455	INTELLIGENT ANCHOR TROLLEY IN ROADWAY EXCAVATION	2024/02/19
2024/01456	EXPERIMENTAL DEVICE UNDER COUPLING ACTION OF CORROSION AND LOAD	2024/02/19
2024/01457	EFFICIENT WASTEWATER PURIFICATION TREATMENT	2024/02/19

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	SYSTEM	
2024/01458	RECOVERY ADAPTIVE TRAINING DEVICE FOR ATHLETES IN SPORTS MEDICINE	2024/02/19
2024/01460	REPAIRING STRUCTURE FOR PATCHING HOLLOW IN OLD TREE	2024/02/19
2024/01461	LONGITUDINAL DEEP-INSERTING FERTILIZATION APPARATUS FOR OLD TREE	2024/02/19
2024/01462	STRUCTURAL ARRANGEMENT FOR A SYSTEM CAPABLE OF MEASURING VOLUME, MASS, AND MOISTURE CONTENT	2024/02/19
2024/01464	RAOULTELLA ORNITHINOLYTICA, BACTERIAL AGENT AND APPLICATION OF RAOULTELLA ORNITHINOLYTICA AND BACTERIAL AGENT IN ENRICHING SELENIUM AND PROMOTING GROWTH	2024/02/19
2024/01465	METHOD FOR ARTIFICIALLY REARING V. VELUTINA IN AGRICULTURAL LANDSCAPES AND APPLICATION THEREOF	2024/02/19
2024/01468	IMPROVED COMPOSITIONS AND METHODS FOR STYLING HAIR FIBERS	2024/02/19
2024/01469	HIGH-NICKEL TERNARY CATHODE MATERIAL SYNTHESIZED USING LITHIUM CARBONATE AS MAIN LITHIUM SOURCE AND PREPARATION METHOD THEREOF	2024/02/19
2024/01472	MOVABLE POINT FROG	2024/02/19
2024/01488	BRACELET FOR TESTING AMBULATORY GLUCOSE MARKER IN REALTIME	2024/02/20
2024/01489	METHOD AND SYSTEM FOR PREDICTING STRENGTH OF CONTROLLED RELEASE FERTILIZER BASED ON PHENOTYPIC CHARACTERISTICS	2024/02/20
2024/01492	DEVICE FOR TREATING PETROLEUM WASTEWATER USING CARBON NANOTUBE ADSORPTION	2024/02/20
2024/01493	A SYSTEM FOR MITIGATING DISPARATE IMPACT IN ALGORITHMIC DECISIONS	2024/02/20
2024/01494	DEVICE FOR ADJUVANT TREATMENT OF FLATULENCE IN GASTROINTESTINAL SURGERY	2024/02/20
2024/01495	A SYSTEM FOR ASSESSING THE IMPACT OF OHMIC-HEATING CHARACTERISTIC PARAMETERS ON MANGO PULP'S	2024/02/20

PROPERTIES2024/01519SOYBEAN MUTATION BREEDING BOX WITH HEAVY ION BEAM CONCENTRATION STRUCTURE2024/02/212024/01520HEAVY ION MUTATION BREEDING BOX WITH HEAVY ION BREEDING BOX WITH HEAVY ION MUTATION BREEDING 2024/015212024/012/212024/01521FERTULIZING DEVICE FOR MALNUT OPDRESSING AND FERTULIZATION METHOD THEREOF2024/02/212024/01523METHOD FOR MINING THE SUB- QUARY PART OF MINERAL ORFIFIELDS2024/02/212024/01524ENVIRONMENTAL NOISE MONITOR QUARY PART OF MINERAL ORFIFIELDS2024/02/212024/01525SECTIONAL TUNNEL BLASTHOLE ARRANGEMENT STRUCTURE AND CONSTRUCTION METHOD THARSPORTATION OF PREPARED ORE MASS FROM QUARRY BOTTOM2024/02/212024/01533MULTI-MODAL ENGLISH TEACHING DEVICE WITH SUPPORTING STRUCTURE2024/02/212024/01558A TEXTILE PACHINE FOR MEDICAL DEVICE WITH SUPPORTING STRUCTURE2024/02/222024/01559A MEDICINAL DIFT HERAPEUTIC PREVENTING UTERINE ADD ESIONS AND A PREPARATION METHOD THEREOF2024/02/222024/01560A DRAWING TABLET OPERATING FRAME FOR WED DESIGN LAYOUT2024/02/222024/01561METHOD AND SYSTEM FOR MONTORING EFFECTIVE PRESTRESS OF POST-TERSIONED CONCRETE BEAMS2024/02/222024/01562CONCRETE BEAMS2024/02/222024/01563A NEW MEDIA ADVERTISING SCROLL BAR2024/02/222024/01564MOVABLE OUST TREATMENT PRESTRESS OF POST-TERSIONED CONCRETE BEAMS2024/02/222024/01564CONCRETE BEAMS2024/02/222024/01564CONCRETE BEAMS2024/02/22 <t< th=""><th>Application Number</th><th>Patent Title</th><th>Filing Date</th></t<>	Application Number	Patent Title	Filing Date
2024/01519SOYBEAN MUTATION BREEDING BOX WITH HEAVY ION BEAM CONCENTRATION STRUCTURE2024/02/212024/01520HEAVY ION MUTATION BREEDING METHOD FOR GLYCINEMAX2024/02/212024/01521FERTILIZING DEVICE FOR WALNUT TOPDRESSING AND FERTILIZATION METHOD THEREOF2024/02/212024/01523METHOD OF MINING THE SUB- QUARRY PART OF MINING THE SUB- QUARRY PART OF MINING THE SUB- QUARRY PART OF MINING THE SUB- QUARRY PART OF MINING THE SUB- QUARRY PART OF MINING THE SUB- QUARRY PART OF MINING THE SUB- QUA/02/212024/02/212024/01523SECTIONAL TUNNEL BLASTHOLE ARRANGEMENT STRUCTURE AND CONSTRUCTION METHOD THEREOF2024/02/212024/01527A CONTOUR MINING STRUCTURE AND CONSTRUCTION METHOD THEREOF2024/02/212024/01533MULTI-MODAL ENGLISH TEACHING DEVICE WITH SUPPORTING STRUCTURE2024/02/212024/01568A TEXTILE MACHINE FOR MEDICAL DEVICE COMPORTING STRUCTION WITH A DISINFECTION MECHOD THEREOF2024/02/212024/01569A MEDICINAL DIET THERAPEUTIC PRODUCTION WITH A DISINFECTION MECHOD THEREOF2024/02/222024/01560A DESIGN LAYOUT PREVENTING UTERNE ADHESIONS AND A PREPARATION AND STSEM FOR MONTORING EFFECTIVE PRESTRESS OF POST-TENSIONED CONCRET E BEAMS2024/02/222024/01561METHOD AND SYSTEM FOR MONTORING EFFECTIVE PRESTRESS OF POST-TREATION PORK 2024/015632024/02/222024/01564ONADERT BEARS COUPLING SIMULATION ANALYSIS METHOD AND EVER IN GERMIC AND ARE SOROLL BAR SUPERCONDUCTIONAL CHINES AMELTON PRADUCING AND METHODS FOR PRODUCING AND METHODS FOR PRODUCING AND METHODS FOR PRODUCING AND METHODS F			
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2024/01563A NEW MEDIA ADVERTISING SCROLL BAR2024/02/222024/01564MOVABLE DUST TREATMENT DEVICE IN COAL MINE WORK2024/02/222024/01582ROOM-TEMPERATURE AND AMBIENT-PRESSURE SUPERCONDUCTING CERAMIC AND METHODS FOR PRODUCING THE SAME2024/02/222024/01596TRADITIONAL CHINESE MEDICINE2024/02/23		METHOD	
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2024/01564MOVABLE DUST TREATMENT DEVICE IN COAL MINE WORK2024/02/222024/01582ROOM-TEMPERATURE AND AMBIENT-PRESSURE SUPERCONDUCTING CERAMIC AND METHODS FOR PRODUCING THE SAME2024/02/222024/01596TRADITIONAL CHINESE MEDICINE2024/02/23		SCROLL BAR	
DEVICE IN COAL MINE WORK2024/01582ROOM-TEMPERATURE AND AMBIENT-PRESSURE SUPERCONDUCTING CERAMIC AND METHODS FOR PRODUCING THE SAME2024/02/222024/01596TRADITIONAL CHINESE MEDICINE2024/02/23	2024/01564	MOVABLE DUST TREATMENT	2024/02/22
2024/01582ROOM-TEMPERATURE AND AMBIENT-PRESSURE SUPERCONDUCTING CERAMIC AND METHODS FOR PRODUCING THE SAME2024/02/222024/01596TRADITIONAL CHINESE MEDICINE2024/02/23		DEVICE IN COAL MINE WORK	
AMBIENT-PRESSURE     SUPERCONDUCTING CERAMIC     AND METHODS FOR PRODUCING     THE SAME     2024/01596     TRADITIONAL CHINESE MEDICINE     2024/02/23	2024/01582	ROOM-TEMPERATURE AND	2024/02/22
SUPERCONDUCTING CERAMIC     AND METHODS FOR PRODUCING     THE SAME     2024/01596     TRADITIONAL CHINESE MEDICINE     2024/02/23		AMBIENT-PRESSURE	
AND METHODS FOR PRODUCING     THE SAME     2024/01596     TRADITIONAL CHINESE MEDICINE     2024/02/23		SUPERCONDUCTING CERAMIC	
THE SAME   2024/01596 TRADITIONAL CHINESE MEDICINE 2024/02/23		AND METHODS FOR PRODUCING	
2024/01596 TRADITIONAL CHINESE MEDICINE 2024/02/23		THE SAME	
	2024/01596	TRADITIONAL CHINESE MEDICINE	2024/02/23

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	COMPOSITION FOR PREVENTING AND TREATING CORONARY ARTERY LESION OF KAWASAKI DISEASE	
2024/01597	SOH EVALUATION METHOD FOR MINING LITHIUM-ION BATTERIES	2024/02/23
2024/01598	AN AUTOMATED LIFTING DEVICE AND PROCESS FOR BULK MATERIALS	2024/02/23
2024/01631	A PRINTING PLATFORM ADJUSTING STRUCTURE OF A 3D PRINTER	2024/02/26
2024/01633	SAMPLE ADDING DEVICE OF ELECTRONIC BALANCE FOR TESTING	2024/02/26
2024/01634	DEVICE FOR SCANNING LOGISTICS PACKAGE BASED ON BIG DATA	2024/02/26
2024/01636	COMPUTER NETWORK SECURITY EARLY WARNING DEVICE	2024/02/26
2024/01637	CLOUD COMPUTING-BASED NETWORK RESOURCE MANAGEMENT SYSTEM	2024/02/26
2024/01651	ANCHORING AND PROTECTING VEHICLE	2024/02/26
2024/01652	DOUBLE-BOX SWITCHING TYPE ROOF BOLTER	2024/02/26
2024/01659	METHOD FOR SIMPLE AND RAPID SEPARATION AND PURIFICATION OF SIGA FROM BOVINE COLOSTRUM	2024/02/27
2024/01661	A PREPARATION METHOD FOR THE OUTER BOX OF LOW TEMPERATURE HIGH IMPACT RUBBER MODIFIED POLYOLEFIN AIRDROP BOX	2024/02/27
2024/01662	DEEP LEARNING BASED METHOD AND DEVICE FOR INTELLIGENTLY MONITORING SUB-HEALTH STATE OF INDUSTRIAL APPARATUS	2024/02/27
2024/01663	METHOD FOR TESTING ANTIFUNGAL ACTIVITY OF ANTIBACTERIAL CERAMICS	2024/02/27
2024/01664	VIBRATION RESISTANCE TESTING APPARATUS AND METHOD FOR INLET GUIDE VANE ELECTRO HYDRAULIC SERVO SYSTEM	2024/02/27
2024/01667	FEEDING DEVICE AND FEEDING METHOD FOR SHEEP HOUSE FOR LIVESTOCK BREEDING	2024/02/27
2024/01668	DEVICE FOR RADIATING HEAT OF 3D PRINTER SPRAY HEAD	2024/02/27
2024/01674	SCALLOP SELENIUM-ENRICHED	2024/02/27

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	COMPOSITE PROTEIN POWDER AND PREPARATION PROCESS THEREOF	
2024/01697	ORGANIC SELENIUM FEED ADDITIVE AND PREPARATION METHOD THEREFOR	2024/02/28
2024/01698	INTELLIGENT CLEANING ROBOT FISH FOR OFFSHORE CAGE	2024/02/28
2024/01699	MULTIFUNCTIONAL DIFFUSELY- REFLECTING INTERIOR WALL COATING CAPABLE OF PREVENTING MYOPIA	2024/02/28
2024/01700	MAGNETIC FIELD GENERATOR BASED ON MAGNETIC FLUID ATOMIZATION LUBRICATION	2024/02/28
2024/01701	ANTI-VIBRATION JOINT STRUCTURE FOR SELF- RESETTING PREFABRICATED BEAM COLUMN	2024/02/28
2024/01702	INTELLIGENT DETECTION METHOD AND DEVICE FOR NETWORK INFORMATION SECURITY	2024/02/28
2024/01703	AUTOMATIC PICKING DEVICE AND PICKING METHOD SUITABLE FOR LENTINULA EDODES	2024/02/28
2024/01705	DISPLAY DEVICE FOR CUSTOMS DECLARATION AND INSPECTION PROCESSES IN INTERNATIONAL TRADE	2024/02/28
2024/01709	GPU RESOURCE ALLOCATION METHOD AND SYSTEM	2024/02/28
2024/01710	PIPELINE TRANSPORTATION SYSTEM AND TRANSPORTATION METHOD WITH POWER OPTIMIZATION	2024/02/28
2024/01716	PHARMACEUTICAL COMPOSITION, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2024/02/28
2024/01747	ELECTRONIC DEVICE FOR ESTIMATING FOREST CARBON STORAGE	2024/02/29
2024/01748	SECURITY MONITORING PROBE BASED ON INTELLIGENT IMAGE RECOGNITION	2024/02/29
2024/01749	A FABRICATION METHOD AND APPLICATION METHOD OF NONLINEAR GUIDED WAVE DETECTION COMBINED TRANSDUCER	2024/02/29
2024/01752	A SOLAR MOVABLE REFRIGERATION HOUSE	2024/02/29

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2024/01755	APPLICATION OF STEROID COMPOUND IN PREPARATION OF DRUG FOR PREVENTING AND/OR TREATING EYE FLOATERS	2024/02/29
2024/01761	SPINNING FORMING APPARATUS AND METHOD FOR ALUMINUM INNER CONTAINER OF HIGH- PRESSURE HYDROGEN CYLINDER	2024/02/29
2024/01762	THROTTLE-COOLED INFRARED DETECTOR, INTELLIGENT MOLD AND INJECTION COMPRESSION MOLDING METHOD	2024/02/29
2024/01764	PART ENCAPSULATION DEVICE FOR ELECTRONIC EQUIPMENT MANUFACTURING	2024/02/29
2024/01788	ONE-MACHINE, MULTI-POINT DRIVE MECHANISM FOR RAILWAY SWITCH	2024/02/29
2024/01793	DEVICE AND METHOD FOR DETECTING LEAKAGE POINT OF VERTICALLY LAID HIGH- RESISTANCE IMPERMEABLE MEMBRANE	2024/03/01
2024/01794	FULL-FACE GROUTING-BASED CRD CONSTRUCTION METHOD FOR EXCAVATING TUNNEL UNDERNEATH BRIDGE	2024/03/01
2024/01797	HEALTH DATA MANAGEMENT METHOD BASED ON EDGE COMPUTING	2024/03/01
2024/01798	METHOD FOR MANAGING HEALTH BASED ON PASSIVE INTERNET OF THINGS	2024/03/01
2024/01801	ENVIRONMENTAL-FRIENDLY CIGARETTE TIPPING PAPER AND PREPARATION SYSTEM THEREOF	2024/03/01
2024/01819	MULTI-VIEW TEXT CLUSTERING METHOD AND SYSTEM BASED ON ONE-STEP LATE FUSION	2024/03/01
2024/01820	METHOD AND APPARATUS FOR ULTRASONIC MEASUREMENT OF TEMPERATURE FIELD INSIDE CABLE	2024/03/01
2024/01825	A LAMP PRIMER SET FOR SALMONELLA AND A METHOD FOR DETECTING SALMONELLA IN FRESH MILK	2024/03/04
2024/01826	A DEVICE FOR REAL-TIMELY DETECTING THE APPARENT VISCOSITY OF ASPHALT IN DIFFERENT STATES	2024/03/04
2024/01827	SYSTEM FOR ESTIMATING FOREST CARBON STORAGE ON BASIS OF	2024/03/04

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2024/01828	LARGE INDUCTION ELECTRIC FURNACE	2024/03/04
2024/01829	INTELLIGENT TEMPERATURE CONTROL ADHESIVE SOLIDIFYING SYSTEM FOR FRONT WINDSHIELD GLASS OF RAILWAY LOCOMOTIVE AND OPERATING METHOD THEREFOR	2024/03/04
2024/01834	WORD MEMORY BOARD FOR ENGLISH TEACHING WITH SHIELDING STRUCTURE	2024/03/04
2024/01842	REMOVAL OF VIRUSES FROM WATER BY FILTRATION	2024/03/04
2024/01851	A WATER-SOLUBLE HELIUM RESOURCE SAMPLING DEVICE AND SAMPLING METHOD	2024/03/05
2024/01852	PROCESSING METHOD OF YELLOW TEA	2024/03/05
2024/01855	PREPARATION METHOD AND APPLICATION OF MICROALGAE- CONTAINING BIOFERTILIZER	2024/03/05
2024/01856	INTEGRATED RAMAN SPECTROMETER CHIP BASED ON OPTICAL WAVEGUIDE	2024/03/05
2024/01857	HEALTH MANAGEMENT SYSTEM BASED ON QUANTUM COMMUNICATION	2024/03/05
2024/01858	HEALTH DATA MANAGEMENT SYSTEM BASED ON ARTIFICIAL INTELLIGENCE CHIP	2024/03/05
2024/01859	STORAGE STERILIZER FOR NURSING INSTRUMENTS	2024/03/05
2024/01860	PREPARATION METHOD OF ORGANIC FERTILIZER FOR IMPROVING SOIL NUTRIENTS AND ENRICHING SOIL MICROORGANISMS	2024/03/05
2024/01878	HIGH-STRENGTH ROAD FOR WATER RESOURCE REGULATION SYSTEM IN RESPONSE TO CLIMATE CHANGE	2024/03/05
2024/01882	METHOD AND SYSTEM FOR IDENTIFYING AND REGISTERING MARK POINTS OF SURGICAL NAVIGATION ROBOT AND DEVICE	2024/03/06
2024/01883	SIMULATED PLUSH ANIMAL TOY AND PREPARATION METHOD THEREOF	2024/03/06
2024/01884	SOIL BALL QUICK WRAPPING ELASTIC NET DEVICE FOR TREE TRANSPLANTING	2024/03/06

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20204/242025		
2024/01885		2024/03/06
2024/01886		2024/03/06
2024/01000	MODULE BASED ON	2024/03/00
	PHOTOCATALYTIC COATING	
2024/01912	TRADITIONAL CHINESE MEDICINE	2024/03/07
	COMPOSITION FOR TREATING	
	HYPEROSTOSIS AND RHEUMATIC	
	ARTHRITIS AND APPLICATION	
2024/01913	TREE RADIAL GROWTH	2024/03/07
	MONITORING RING AND	
0004/04044		0004/00/07
2024/01914	NOVEL WATER-SPRAYING SELF-	2024/03/07
	COATING	
2024/01915	DEVICE FOR CONTINUOUSLY AND	2024/03/07
	REMOTELY MONITORING RADIAL	
	GROWTH OF TREES	
2024/01916	PREPARATION METHOD AND	2024/03/07
	APPLICATION OF SPINDLE-SHAPED	
	IRON OXIDE NANO SINGLE	
	CRYSTALS	
2024/01918		2024/03/07
	ROTARY JET ABRASION AND	
	EROSION	
2024/01919	METHOD AND DEVICE FOR	2024/03/07
	CONSTRUCTING RAPE AUTOMATIC	
	HYBRIDIZATION MICROSYSTEM	
2024/01923	A SYSTEM FOR EVALUATING A	2024/03/07
	COPLANAR INTERDIGITATED	
2024/01025		2024/02/07
2024/01923	DEVICE FOR PROCESSING ALLOY	2024/03/07
	MATERIAL	
2024/01926	ALLOY STEEL MATERIAL	2024/03/07
	HARDNESS DETECTION DEVICE	
2024/01927	DEVICE AND METHOD FOR	2024/03/07
	ANALYZING LASER-INDUCED	
	BREAKDOWN SPECTROSCOPY	
2024/01928	A MESOSCOPIC SCALE	2024/03/07
	COMBUSTION OF THE LOOSE	
	COAL BODY	
2024/01961	A MULTI-LEVEL RESILIENT	2024/03/08
	GATEWAY COMMAND AGENT	
	MODEL AND DATA ACQUISITION	

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	SYSTEM FOR INDUSTRIAL INTERNET	
2024/01962	METHOD, DEVICE AND STORAGE MEDIUM FOR BULK CARRIER TIME CHARTER LEVELS BASED ON CONFIDENCE INDEX FORECASTING	2024/03/08
2024/01964	MIXING DEVICE FOR PREPARATION OF ANTI-UTERINE AGING DRUGS	2024/03/08
2024/01970	NEW-TYPE ASSEMBLED FOUNDATION PIT SUPPORT SUITABLE FOR FINE SAND LAYER	2024/03/08
2024/01971	INCOMBUSTIBLE SOLID WALL FOR EXTERNAL WALL OF ULTRAHIGH- RISE BUILDING AND CONSTRUCTION METHOD	2024/03/08
2024/01998	PEDIATRIC NEUROTACTILE DETECTOR	2024/03/11
2024/01999	METHOD OF AUTOMATED CARGO CONSOLIDATION, ELECTRONIC EQUIPMENT, COMPUTER STORAGE MEDIA	2024/03/11
2024/02000	ANALYSIS METHOD OF ENVIRONMENTAL AIR POLLUTION SOURCES BASED ON FEATURE BIAS	2024/03/11
2024/02001	INJURY-PREVENTING URINARY CATHETER	2024/03/11
2024/02003	A SYSTEM FOR PREPARING FLY ASH WATER SLURRY (FAWS) USING BIO-ADDITIVE SOLUTION FROM DIOSCOREA HISPIDA	2024/03/11
2024/02008	APPARATUS AND SYSTEM BASED ON INTERNET OF THINGS FOR LOGISTICS INFORMATION MANAGEMENT	2024/03/11
2024/02029	ENGLISH TEACHING BOARD WITH MULTIDIRECTIONAL OVERTURNING STRUCTURE	2024/03/12
2024/02030	MONITORING AND DIAGNOSIS SYSTEM FOR NETWORK COMMUNICATION SECURITY	2024/03/12
2024/02052	APPLICATION OF DOF TRANSCRIPTION FACTOR IN IMPROVEMENT OF DROUGHT TOLERANCE OF TRITICUM AESTIVUM	2024/03/13
2024/02053	MEDICINE FEEDING EQUIPMENT FOR INTENSIVE CARE PATIENTS	2024/03/13
2024/02054	HEAT TREATMENT EQUIPMENT FOR ALUMINUM ALLOY CASTINGS	2024/03/13

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2024/02056	SELECTION SYSTEM OF	2024/03/13
2024/02057		2024/03/13
2024/02037	BIEDS FROM A RICE-FISH CO-	2024/03/13
	CULTURE SYSTEM	
2024/02059	FUMIGATION EQUIPMENT BASED	2024/03/13
	ON BREAST TREATMENT	
2024/02060	ICE STORAGE TANK FORMING	2024/03/13
		000 1/00/10
2024/02061	EXTRACTION DEVICE FOR MICRO	2024/03/13
	AND EXTRACTION METHOD	
	THEREOF	
2024/02062	DEHYDRATION DETECTION DEVICE	2024/03/13
	FOR HEAVY-OIL VISCOSITY	
	REDUCTION REACTION	
2024/02063	EVALUATION SYSTEM FOR	2024/03/13
	FOREIGN TRADE ROUTE	
2024/02064		2024/02/42
2024/02064	SIMULTANEOUS INTERPRETATION	2024/03/13
	EQUIPMENT	
2024/02065	DEVICE FOR WOUND	2024/03/13
	DEBRIDEMENT	
2024/02067	METHOD AND SYSTEM FOR	2024/03/13
	IDENTIFYING EXCELLENT SMALL	
	TO HIGH-PRECISION DIGITAL SOIL	
	MAP	
2024/02077	OPTIMIZATION METHOD FOR PID	2024/03/13
	CONTROL PARAMETERS OF	
	AUTOMOBILE SEMI-ACTIVE	
2024/02070		2024/02/12
2024/02079		2024/03/13
2024/02037	DEVICE FOR TESTING FEFICIENCY	2024/03/13
	OF MICROBIAL ENHANCED COAL	
	SEAM GAS DESORPTION	
	THROUGH PHYSICAL SIMULATION	
2024/02689	METHOD FOR PURIFYING	2024/04/08
	POLYSACCHARIDE OF PORUS	
	CHROMATOGRAPHY	
2024/02733	AUTOMATIC MOUNTING ROBOT	2024/04/09
	SYSTEM FOR TOWER COLUMN	
	DRAG HOOK BAR	
2024/02811	A BENDING AND TORSION	2024/04/11
	PROPERTIES TEST DEVICE FOR	

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2024/02077		2024/04/17
2024/02977		2024/04/17
2024/03/09		2024/03/10
	SHAPE OF SUBWAY BUSINESS	
2024/04113	BAGGING TOOLING DEVICE AND	2024/05/27
	METHOD FOR SHIITAKE	
	MUSHROOMS	
2024/04276	METHOD FOR DIRECTLY	2024/05/31
	FERROCHROME	
2024/04467	A CURCUMIN-RESVERATROL	2024/06/10
	PROTEIN-BASED NANOFIBER FILM,	
	A PREPARATION METHOD AND	
	APPLICATION THEREOF	
2024/04650	CLASSIFICATION PLATE FOR	2024/06/14
	LIBRARY MANAGEMENT	
2024/04883	LIQUID FORMULATIONS OF AMYLIN	2024/06/21
2024/04086		2024/06/25
2024/04986		2024/06/25
	NICKEL COBALT AND MANGANESE	
2024/05068	PILE FOUNDATION	2024/06/27
	CONSTRUCTION METHOD	
2024/05364	POROUS CARBON NANOFIBER	2024/07/10
	MATERIAL HAVING PARALLEL	
	PORE STRUCTURES AND	
	PREPARATION METHOD	
2024/05274		2024/07/40
2024/05374	SULCES	2024/07/10
2024/05464	WIG STORAGE DEVICE	2024/07/12
2024/05465	WIG COMBING DEVICE	2024/07/12
2024/05466	WIG HAIR TRANSPLANTATION	2024/07/12
	DEVICE AND HAIR	
	TRANSPLANTATION METHOD	
2024/05618	AUTOMOBILE SAFETY AND ANTI-	2024/07/19
	THEFT DEVICE	
2024/05654	STABLE GRANISETRON	2024/07/22
2024/05702	DOWN FEATHER SEPARATION	2024/07/23
	PRODUCTION PROCESS	
2024/05769	USE OF RETINAL PIGMENT	2024/07/25
	EPITHELIAL CELLS IN	
	REPLACEMENT OF CORNEAL	
	ENDOTHELIA	
2024/05784	MINERAL ADMIXTURE FOR	2024/07/26

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	INHIBITING TEMPERATURE RISE OF CONCRETE HYDRATION AND PREPARATION AND APPLICATION THEREOF	
2024/05872	METHOD FOR INTEGRAL LIFTING OF STEEL BAR SEGMENT WITH A LARGE DIAMETER AND A VARIABLE CIRCULAR CROSS SECTION	2024/07/30
2024/05902	LOW-SWELLING DECELLULARIZED CORNEA, AND PREPARATION METHOD AND APPLICATION THEREOF	2024/07/31
2024/05903	ORGANIC MOLECULAR CAGE, ORGANIC MOLECULAR CAGE NANO-ENZYME EYE DROPS AND PREPARATION METHOD THEREOF	2024/07/31
2024/05904	PREPARATION METHOD AND APPLICATION OF BIONIC BIOLOGICAL MATERIAL	2024/07/31
2024/05910	APPLICATION OF REGULATORY T CELL EXOSOME IN PREPARATION OF MEDICINE FOR PROMOTING CORNEAL INJURY REPAIR	2024/07/31
2024/05912	PREPARATION METHOD AND APPLICATION OF HUMAN-DERIVED BIOLOGICAL CORNEAL STROMA	2024/07/31
2024/06071	A STRAIN OF GELATINOUS PAENIBACILLUS MSSW03 AND ITS APPLICATION	2024/08/07
2024/06246	P-PHENYLCYCLOBUTANAMIDE ROSEMARY COMPOUND AS HYALURONIDASE INHIBITOR AND APPLICATION THEREOF IN BEAUTY PRODUCT	2024/08/14
2024/06247	1,3-DISUBSTITUTED INDOLE DERIVATIVE AS HYALURONIDASE INHIBITOR AND USE THEREOF IN COSMETIC PRODUCT	2024/08/14
2024/06248	3?-OLEANOLIC ACID DERIVATIVES AS HYALURONIDASE INHIBITORS AND USES THEREOF IN COSMETIC PRODUCTS	2024/08/14
2024/06665	COMPOUND TARGETING SSTR2, PREPARATION METHOD THEREFOR AND USE THEREOF	2024/08/28
2024/06794	GRAIN DRYER MAIN ENGINE CHASSIS WITH HIGH STRESS SUPPORTING STRUCTURE	2024/09/03
2024/06830	HIGH-TEMPERATURE POLARIZATION METHOD FOR STRIP-SHAPED OR ROD-SHAPED PIEZOELECTRIC CERAMICS	2024/09/04
2024/06831	HIGH-VOLTAGE LOAD SWITCH	2024/09/04

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	WITH MAGNETIC BLOWOUT COMPOSITE ARC EXTINGUISHING CAPABILITY	

DESIGNS

## Advertisement List for September 2024

## Number of Advertised Designs: 177

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A2023/01419	HEADPHONE	2023/12/14
A2020/01064	WATCHES	2020/08/03
A2020/01364	BRACKETS	2020/10/15
A2020/01622	CANOPY FOR A VEHICLE	2020/12/11
A2021/00719	ASTRONOMICAL CLOCKS	2021/06/18
A2021/00720	ASTRONOMICAL CLOCKS	2021/06/18
A2021/00721	ASTRONOMICAL CLOCKS	2021/06/18
A2021/00722	ASTRONOMICAL CLOCKS	2021/06/18
A2021/00723	ASTRONOMICAL CLOCKS	2021/06/18
A2022/00628	DOMESTIC SODA-WATER	2022/06/06
	PREPARING DEVICE	
A2022/01449	BLANKS FOR BOXES	2022/11/11
A2022/01450	LABELS	2022/11/11
A2022/01451	LOGOS	2022/11/11
A2022/01452	LABELS	2022/11/11
A2022/01453	LABELS	2022/11/11
A2022/01454	BLANKS FOR BOXES	2022/11/11
A2022/01455	BOXES	2022/11/11
A2022/01456	BOXES	2022/11/11
A2022/01457	LABELS	2022/11/11
A2022/01458	LABELS	2022/11/11
A2022/01459	LABELS	2022/11/11
A2022/01460	MEDICAL DEVICES	2022/11/11
A2022/01461	MEDICAL DEVICES	2022/11/11
A2023/00120	FULL APERTURE BEVERAGE CAN END	2023/01/26
A2023/00361	FLASK	2023/03/10
A2023/00457	ORAL CARE IMPLEMENTS	2023/04/12
A2023/00458	ORAL CARE IMPLEMENTS	2023/04/12
A2023/00736	WATCHES	2023/07/05
A2023/00865	BUS	2023/07/27
A2023/00896	OPEN PIT MINING HOLE SEALING DEVICE	2023/08/10
A2023/01102	UTILITY RACK	2023/10/11
A2023/01171	FIREARM	2023/10/27

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A2023/01197	TYRES AND TYRE TREADS	2023/11/03
A2023/01300	AUTOMOBILES	2023/12/04
A2023/01301	SPOILERS	2023/12/04
A2023/01302	SPOILERS	2023/12/04
A2023/01303	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01304	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01305	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01306	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01307	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01308	SPOILERS	2023/12/04
A2023/01309	SPOILERS	2023/12/04
A2023/01310	WHEEL RIMS	2023/12/04
A2023/01311	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01312	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01313	REARVIEW MIRRORS	2023/12/04
A2023/01314	DOORS FOR AUTOMOBILES	2023/12/04
A2023/01315	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01317	Battery	2023/12/04
A2023/01318	Band	2023/12/04
A2023/01319	Strap	2023/12/04
A2023/01320	Strap	2023/12/04
A2023/01321	Head-Mounted Display	2023/12/04
A2023/01322	Band	2023/12/04
A2023/01323	Cable	2023/12/04
A2023/01324	Cable	2023/12/04
A2023/01325	Cable	2023/12/04
A2023/01326	Light Seal	2023/12/04
A2023/01327	Light Seal	2023/12/04
A2023/01328	Light Seal	2023/12/04
A2023/01329	Cushion	2023/12/04
A2023/01330	DOORS FOR AUTOMOBILES	2023/12/04
A2023/01333	Strap	2023/12/05
A2023/01334	Strap	2023/12/05
A2023/01336	Strap	2023/12/05
A2023/01340	SPOILERS	2023/12/04
A2023/01341	ROOFS FOR AUTOMOBILES	2023/12/04
A2023/01342	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01343	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01344	BODY PANELS FOR AUTOMOBILES	2023/12/04
A2023/01345	WHEEL RIMS	2023/12/04
A2023/01346	DOORS FOR AUTOMOBILES	2023/12/04
A2023/01347	REARVIEW MIRRORS	2023/12/04
A2023/01348	DOORS FOR AUTOMOBILES	2023/12/04
A2023/01349	WHEEL RIMS	2023/12/04
A2023/01350	FOOTWEAR	2023/12/06
A2023/01351	FOOTWEAR	2023/12/06
A2023/01354	COVER FOR ELECTRONIC DEVICE	2023/12/08
A2023/01355	COVER FOR ELECTRONIC DEVICE	2023/12/08
A2023/01356	COVER FOR ELECTRONIC DEVICE	2023/12/08
A2023/01359	WEIGHING SCALES	2023/12/08

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A2023/01362	FOOTWEAR	2023/12/11
A2023/01363	FOOTWEAR	2023/12/11
A2023/01369	Speaker with Battery Pack	2023/12/12
A2023/01370	Television Receiver	2023/12/12
A2023/01371	Speaker with Battery Pack	2023/12/12
A2023/01372	Television Receiver	2023/12/12
A2023/01373	Television Receiver	2023/12/12
A2023/01374	Television Receiver	2023/12/12
A2023/01375	Television Receiver	2023/12/12
A2023/01376	Television Receiver	2023/12/12
A2023/01377	Television Receiver	2023/12/12
A2023/01378	Television Receiver	2023/12/12
A2023/01379	Television Receiver	2023/12/12
A2023/01380	Television Receiver	2023/12/12
A2023/01381	Television Receiver	2023/12/12
A2023/01382	Television Receiver	2023/12/12
A2023/01383	Television Receiver	2023/12/12
A2023/01384	Television Receiver	2023/12/12
A2023/01385	Television Receiver	2023/12/12
A2023/01386	Supporting Arm for a Television	2023/12/12
	Receiver	
A2023/01387	Supporting Arm for a Television Receiver	2023/12/12
A2023/01388	Case for a Television Receiver	2023/12/12
A2023/01402	COLOUR WALL	2023/12/13
A2023/01403	CARD HOLDER	2023/12/13
A2023/01404	COLOUR BLOCK	2023/12/13
A2023/01405	AN AUTOINJECTOR	2023/12/13
A2023/01425	Mug	2023/12/14
A2023/01426	Mug	2023/12/14
A2023/01427	Mug	2023/12/14
A2023/01428	Oven	2023/12/14
A2023/01429	Mug	2023/12/14
A2023/01431	Mug	2023/12/14
A2023/01432	Mug	2023/12/14
A2023/01433	Mug	2023/12/14
A2023/01434	Mug	2023/12/14
A2023/01435	Mug	2023/12/14
A2023/01436	Mug	2023/12/14
A2023/01442	COFFEE GRINDERS	2023/12/19
A2024/00003	MOTORCYCLE	2024/01/02
A2024/00004	MOTORCYCLE	2024/01/02
A2024/00005	MOTORCYCLE	2024/01/02
A2024/00036	MOUNTING BASE FOR A VEHICLE MIRROR	2024/01/12
A2024/00038	PROCESSING CARTRIDGE	2024/01/12
A2024/00052	PUMP	2024/01/17
A2024/00053	PUMP	2024/01/17
A2024/00054	PUMP	2024/01/17
A2024/00082	FIREARM	2024/01/24

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A2024/00083	FIREARM	2024/01/24
A2024/00084	TRIGGER GUARD	2024/01/24
A2024/00085	MAGAZINE HOUSING	2024/01/24
A2024/00086	MAGAZINE HOUSING	2024/01/24
A2024/00107	WATER FILTER	2024/01/26
A2024/00118	PROCESSING CARTRIDGE	2024/01/02
A2024/00514	ABSORBENT CORE OF BABY DIAPER	2024/06/04
A2024/00527	ABSORBENT CORE OF BABY DIAPER	2024/06/05
A2024/00528	ABSORBENT CORE OF BABY DIAPER	2024/06/05
A2024/00533	PHOTOVOLTAIC INVERTER	2024/06/06
F2019/01761	ILLUMINATED STAGE	2019/12/05
F2020/01366	BRACKETS	2020/10/15
F2022/00529	ТАР	2022/05/13
F2022/01642	A HANG TAB	2022/12/13
F2023/00599	RESIN ANCHORED ROCK SUPPORT	2023/05/19
F2023/00897	OPEN PIT MINING HOLE SEALING DEVICE	2023/08/10
F2023/00959	A ROLL-ON CONTAINER AND BALL	2023/09/01
F2023/01024	CONTAINER FOR LIQUID OR GRANULAR SUBSTANCES	2023/09/21
F2023/01066	PIPE ELEMENT	2023/10/02
F2023/01178	REEL HOUSING FOR A HOSE OR CABLE	2023/10/30
F2023/01224	COVER FOR AN ELECTRONIC REMOTE-CONTROL	2023/11/14
F2023/01299	AN ELECTRICAL PLUG BODY	2023/12/01
F2023/01358	WEIGHING SCALES	2023/12/08
F2023/01365	WEARABLE SLEEPING GARMENT	2023/12/12
F2023/01366	WEARABLE SLEEPING GARMENT	2023/12/12
F2023/01367	WEARABLE SLEEPING GARMENT	2023/12/12
F2023/01368	WEARABLE SLEEPING GARMENT	2023/12/12
F2023/01389	Fan Blades	2023/12/12
F2023/01390	Fan Blades	2023/12/12
F2023/01447	BENDABLE SOLAR PANEL MOUNTING POST	2023/12/19
F2023/01448	RIGID SOLAR PANEL MOUNTING POST	2023/12/19
F2023/01449	ANTI-THEFT SOLAR PANEL BRACKET	2023/12/19
F2023/01453	BIN WITH MOUNTING BRACKET	2023/12/20
F2024/00055	BALL COLLECTOR AND DISPENSER	2024/01/18
F2024/00056	BALL COLLECTOR AND DISPENSER	2024/01/18
F2024/00081	SEWAGE REACTOR	2024/01/22
F2024/00110	AN OPTICS SUPPORT	2024/01/29
F2024/00190	BIOLOGICAL DESULPHURISATION VESSEL	2024/02/16
F2024/00191	GAS DRYER	2024/02/16
F2024/00471	SEEDLING TRAY	2024/05/20

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F2024/00472	SET OF COMPONENTS FOR A SECURITY DEVICE	2024/05/21
F2024/00473	SET OF COMPONENTS FOR A SECURITY DEVICE	2024/05/21
F2024/00551	MOUNT	2024/06/13
F2024/00552	MOUNT	2024/06/13
F2024/00553	HOOD	2024/06/13
F2024/00554	HOOD	2024/06/13
F2024/00555	EDGE STRIP	2024/06/13
F2024/00556	EDGE STRIP	2024/06/13
F2024/00668	STOVE	2024/07/02