

PATENT JOURNAL

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JUNE 2021

VOL 54 • No. 06



Companies and Intellectual
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Part II of II

ISSUED MONTHLY

DATE OF ISSUE: 30 JUNE 2021

ISSN 2223-4837

PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND
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VOL. 54 No. 06

Date of Issue: 30 JUNE 2021

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TABLE OF CONTENTS

2. PATENTS	4
APPLICATIONS FOR PATENTS	5
ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)	94
CHANGE OF NAME IN TERMS OF REGULATION 39	97
PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63.....	97
PATENT APPLICATIONS ABANDONED OR WITHDRAWN	98
APPLICATION FOR RESTORATION OF A LAPSED PATENT.....	98
APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT	100
APPLICATIONS TO AMEND SPECIFICATION.....	100
INSPECTION OF SPECIFICATIONS.....	101
HYPOTHECATIONS	277
JUDGMENTS	277
OFFICE PRACTISE NOTICES	277
3. DESIGNS	278
APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993	279
APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT	287
APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION	288
NOTICE OF REGISTRATION OF DESIGNS	288
HYPOTHECATIONS	333
JUDGMENTS	333
OFFICE PRACTISE NOTICES	333
4. COPYRIGHT	334
NOTICES OF ACCEPTANCE	335
HYPOTHECATIONS	336
JUDGMENTS.....	336
OFFICE PRACTISE NOTICES	336
5. CORRECTION NOTICES	337
TRADE MARK CORRECTION NOTICES	338
PATENT CORRECTION NOTICES	338
DESIGNS CORRECTION NOTICES	339
COPYRIGHT CORRECTION NOTICES	339
PATENTS	340
DESIGNS	356
OTHER OFFICE NOTICES	360

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. **(DA)** 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 5/24/2021 -

2021/03492 ~ Provisional ~54:SEAWALL ENERGY ~71:Khim Heng, 108, 504 EAST HASTINGS STREET , VANCOUVER, BC V6A 1P8, Canada ~72: KHIM HENG~

2021/03526 ~ Complete ~54:REPAIR PROCESS USING LASER METAL POWDER DEPOSITION ~71:Westinghouse Electric Belgium, Rue de l'Industrie 43, NIVELLES B-1400, BELGIUM, Belgium ~72: DERRIENNIC, Yves;GEORGES, Cédric;JIMENEZ, Norberto;MUYLLE, Cindy;WALMAG, Gisèle~

2021/03487 ~ Provisional ~54:HAND WRAP AND BANDAGE ROLLER ~71:PAULO ALEXANDRE DE MATOS LOPES, Unit 276 Balboa Park, Oakdene Parks Drive,, South Africa ~72: Paulo Lopes~

2021/03508 ~ Complete ~54:USE OF NATURAL-ABUNDANCE STABLE ISOTOPES AND DNA GENOTYPING FOR IDENTIFYING BIOLOGICAL PRODUCTS ~71:ORITAIN GLOBAL LIMITED, 167 High Street, New Zealand ~72: JASPER, John P. ~ 33:US ~31:62/769,939 ~32:20/11/2018

2021/03605 ~ Provisional ~54:A SECURITY DEVICE ~71:JEFFREY ROBERT MORROW, 19 ROBERTSON STREET OBSERVATORY EXT,, South Africa ~72: JEFFREY ROBERT MORROW~

2021/03531 ~ Complete ~54:ANNOUNCED ROAMING LOCATION (AROL) SERVICE ~71:Mohamed JAMOUSI, 9 Rue Salem Ben Hamida, Menzah 5, Tunisia ~72: Mohamed JAMOUSI~

2021/03514 ~ Complete ~54:5-AZAINDAZOLE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: BLAYO, Anne-Laure;CATELAIN, Thomas;DORANGE, Ismet;MANTEAU, Baptiste;MAYER, Stanislas;SCHANN, Stephan~ 33:EP ~31:18306389.0 ~32:25/10/2018

2021/03520 ~ Complete ~54:MODULATORS OF FOXP3 EXPRESSION ~71:Ionis Pharmaceuticals, Inc., 2855 Gazelle Court, CARLSBAD 92010, CA, USA, United States of America ~72: FREIER, Susan M.;MACLEOD, Robert A.;REVENKO, Alexey~ 33:US ~31:62/767,123 ~32:14/11/2018;33:US ~31:62/924,001 ~32:21/10/2019

2021/03483 ~ Provisional ~54:AN ENERGY EFFICIENT ARRANGEMENT OF PROPELLERS FOR QUAD COPTERS AND MULTI ROTORS ~71:Becker van Niekerk, Plot 137, Zwavelpoort, South Africa ~72: Becker van Niekerk~

2021/03493 ~ Complete ~54:A WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE ~71:TERRENCE KEITH ASHWIN, 18 COVENTRY ROAD, BRYANSTON, South Africa ~72: TERRENCE KEITH ASHWIN~

2021/03525 ~ Complete ~54:METHODS FOR MAKING MIXED ALLERGEN COMPOSITIONS ~71:Alladapt Immunotherapeutics, Inc., 1160 Chestnut Street, MENLO PARK 94025, CA, USA, United States of America ~72: CORNYN, Christopher;DOMBKOWSKI, Ashley;MCCLINTOCK, Dana;WEIHE, Olivia M.~ 33:US ~31:62/773,643 ~32:30/11/2018

2021/03498 ~ Complete ~54:TEBIPENEM PIVOXIL CRYSTALLINE FORMS, COMPOSITIONS INCLUDING THE SAME, METHODS OF MANUFACTURE, AND METHODS OF USE ~71:SPERO THERAPEUTICS, INC., 675 Massachusetts Avenue, 14th Floor, Cambridge, Massachusetts, 02139, United States of America ~72: AKASH JAIN;EVAN HECKER;RICHARD EDWARDS;THIERRY BONNAUD~ 33:US ~31:62/455,109 ~32:06/02/2017

2021/03489 ~ Provisional ~54:A SUPPORT FOR A DIPOLE CONNECTOR ~71:BICK, Anthony Aaron, 41b 4th Avenue, Illovo, Sandton, South Africa;FANAROFF, Stanley, c/o Stan Fanaroff & Associates 107 Oxford Road Rosebank, South Africa ~72: BICK, Anthony Aaron;CONFAIT, Jean-Pierre Julius;HE, Chengmin~

2021/03497 ~ Complete ~54:24-EPIBRASSINOLIDE (EBL) AND ENVIRONMENTALLY-FRIENDLY EBL-CONTAINING PREPARATION FOR PREVENTING AND TREATING CAMELLIA SINENSIS ANTHRACNOSE ~71:Tea Research Institute, Chinese Academy of Agricultural Sciences, No. 9 Meiling South Road, People's Republic of China ~72: FU, Jianyu;HAN, Wenyan;LI, Xin;XIAO, Qiang;YAN, Peng;ZHANG, Lan;ZHANG, Liping~

2021/03503 ~ Complete ~54:VIRTUAL SYNCHRONOUS GENERATOR SYSTEM AND METHOD ~71:GENERAL ELECTRIC COMPANY, 1 River Road, United States of America ~72: GONG, Maozhong~ 33:US ~31:16/238,516 ~32:02/01/2019

2021/03510 ~ Complete ~54:LINING AND COOLING ARRANGEMENT FOR A METALLURGICAL FURNACE ~71:TENOVA SOUTH AFRICA (PTY) LTD, 96 Loper Avenue, Aeroport Spartan, 2001, Johannesburg, South Africa ~72: GERRIT DE VILLIERS;HUGO JOUBERT;ISOBEL MCDUGALL~

2021/03512 ~ Complete ~54:SYSTEMS, DEVICES, AND METHODS FOR RF DETECTION OF ANALYTE SENSOR MEASUREMENTS ~71:ABBOTT DIABETES CARE INC., 1420 Harbor Bay Parkway, Alameda, California, 94502, United States of America ~72: LEI HE;MICHAEL R LOVE~ 33:US ~31:62/781,972 ~32:19/12/2018

2021/03521 ~ Complete ~54:COTTON-BASED ELASTICISED YARNS TO MAKE ENVIRONMENT-FRIENDLY ELASTICISED FABRICS ~71:Candiani S.p.A., Via Arese, 85, ROBECCHETTO CON INDUNO I-20020, ITALY, Italy ~72: BENELLI, Paolo~ 33:IT ~31:102018000009802 ~32:25/10/2018

2021/03524 ~ Complete ~54:COMPOSITIONS AND METHODS OF MODULATING SHORT-CHAIN DEHYDROGENASE ACTIVITY ~71:Board of Regents of the University of Texas System, 201 West 7th St, AUSTIN 78701, TX, USA, United States of America;Case Western Reserve University, 10900 Euclid Avenue, CLEVELAND 44106, OH, USA, United States of America;Rodeo Therapeutics Corporation, 2815 Eastlake Ave E, Ste 300, SEATTLE 98102, WA, USA, United States of America ~72: ANTCZAK, Monika;GWALTNEY II, Stephen L.;MARKOWITZ, Sanford;READY, Joseph~ 33:US ~31:62/770,571 ~32:21/11/2018

2021/03486 ~ Provisional ~54:MASK MUTI AROMATHERAPY REFRESHER SPRAY ~71:Glenn Booyesen, 3 Honnet Way, South Africa ~72: Scentitiant (Pty) Ltd~

2021/03500 ~ Complete ~54:2-FLUORINATED BILE ACIDS FOR THE TREATMENT OF NEURODEGENERATIVE DISEASES ~71:NZP UK LIMITED, One, Glass Wharf, Bristol, United Kingdom;THE UNIVERSITY OF SOUTHAMPTON, University Road, Highfield, Southampton, United Kingdom ~72: BANDMANN, Oliver;HASTINGS, Christopher;LINCLAU, Bruno Jan Pol;MORTIBOYS, Heather;PACKER, Gemma;WATTS, Joseph;WEYMOUTH-WILSON, Alexander~ 33:GB ~31:1820887.6 ~32:20/12/2018

2021/03504 ~ Complete ~54:IMMERSION NOZZLE ~71:KROSAKIHARIMA CORPORATION, 1-1, Higashihama-machi, Yahatanishi-ku, Japan ~72: FUKUNAGA, Shinichi;FURUKAWA, Hiroki;KATSUKI, Kazuhisa;YANO, Junya~ 33:JP ~31:2019-007948 ~32:21/01/2019

2021/03505 ~ Complete ~54:MOBILE MINERAL MATERIAL PROCESSING STATION ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: SALMINEN, Vesa-Matti~ 33:FI ~31:20186127 ~32:21/12/2018

2021/03509 ~ Complete ~54:STABLE GLUCOCORTICOID FORMULATION ~71:AVM BIOTECHNOLOGY, LLC, 1749 Dexter Avenue, United States of America ~72: DEISHER, Theresa;DUNCAN, Iain;JARZYNA, Adalbert~ 33:US ~31:62/767,448 ~32:14/11/2018

2021/03515 ~ Complete ~54:THERMALLY TREATED COMPOSITION COMPRISING PLANT PROTEINS AND METHODS OF PRODUCTION AND USE THEREOF ~71:Société des Produits Nestlé S.A., Entre-deux-Villes, VEVEY 1800, SWITZERLAND, Switzerland ~72: DAVIDEK, Tomas;NOVOTNY, Ondrej;RUFFINO, Luca Salvatore;SIEVERT, Dietmar August Gustav~

2021/03519 ~ Complete ~54:5-AZAINDAZOLE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: AMALRIC, Camille;BLAYO, Anne-Laure;FER, Mickaël;MANTEAU, Baptiste;MAYER, Stanislas;SCHANN, Stephan~ 33:EP ~31:18306390.8 ~32:25/10/2018

2021/03502 ~ Complete ~54:DEVICE, EXCHANGE UNIT, KIT, AND METHOD FOR REDUCING THE ODOR OF TANNED LEATHER ~71:TFL LEDERTECHNIK GMBH, Peter-Krauseneck-Str. 16, Germany ~72: Dr. Jens FENNEN;Dr. Lorenzo MEJIAS;Dr. Nina SCHULTE-GAUCZINSKI;Rodolfo AMPUERO~

2021/03490 ~ Provisional ~54:COVID-19 ESCALATOR SANITIZER ~71:LAING, Darryl Jonathan Marc, 98 Chestnut Grove, 154 Pritchard Street, North Riding, Randburg, South Africa;VAN ZYL, Ferdinand, 15 Prinsloo Street, Alberton North, Alberton, South Africa ~72: LAING, Darryl Jonathan Marc;VAN ZYL, Ferdinand~

2021/03511 ~ Complete ~54:ENGINEERED ROBUST HIGH TM-PHYTASE CLADE POLYPEPTIDES AND FRAGMENTS THEREOF ~71:DANISCO US INC., 925 Page Mill Road, Palo Alto, California, 94304, United States of America;DUPONT NUTRITION BIOSCIENCES APS, Langebrogade 1, 1411, Copenhagen K, Denmark ~72: HYE-SOOK KIM;IGOR NIKOLAEV;JAHNAVI CHANDRA PRASAD;JENS FRISBAEK SØRENSEN;LILIA MARIA BABE;RIE MEJLDAL;ROBIN ANTON SORG;SINA PRICELIUS;SVEND HAANING;TRINE CHRISTENSEN~ 33:US ~31:62/769,713 ~32:20/11/2018;33:US ~31:62/851,122 ~32:22/05/2019;33:US ~31:62/887,714 ~32:16/08/2019

2021/03482 ~ Provisional ~54:AN INTERACTIVE AND EXPLORATIVE EDUCATIONAL TOOLKIT COMPRISING OF METHODS AND MEANS TO FACILITATE ACCELERATED LEARNING, TEACHING AND ASSESSING ANY SUBJECT MATTER ~71:MBUSO NGCONGO, 6 RAYLEIGH HOUSE, South Africa ~72: Khanyiswa Ngcongo;Mbuso Ngcongo~ 33:ZA ~31:2019/04711 ~32:31/07/2019

2021/03484 ~ Provisional ~54:STRAY ANIMAL ROAD SAFETY DEVICE ~71:Adam Justice Ngele, No 1666 Lebwakgomo Unit S, South Africa ~72: Adam Justice Ngele~ 33:ZA ~31:001 ~32:22/05/2021

2021/03523 ~ Complete ~54:PYRAZOLES AS MODULATORS OF HEMOGLOBIN ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: CABRAL, Shawn;CASIMIRO-GARCIA, Agustin;CHEN, Ming Zhu;CHOI, Chulho;DOW, Robert Lee;FADEYI, Olugbeminiyi Omezia;GOPALSAMY, Ariamala;HEPWORTH, David;JASTI, Jayasankar;JONES, Lyn Howard;NARAYANAN, Arjun Venkat;PARIKH, Mihir Dineshkumar;PIOTROWSKI, David Walter;ROBERTS, Lee Richard;ROBINSON, Jr. Ralph Pelton;YAYLA, Hatice Gizem~ 33:US ~31:62/772,815 ~32:29/11/2018;33:US ~31:62/915,784 ~32:16/10/2019

2021/03507 ~ Complete ~54:METHOD AND APPARATUS FOR STAGED STARTUP OF AIR-COOLED LOW CHARGED PACKAGED AMMONIA REFRIGERATION SYSTEM ~71:Evapco, Inc., 5151 Allendale Lane, Taneytown, Maryland, 21787, United States of America ~72: DENISON, Jake William;HAMILTON, Donald Lee;VINEYARD, Samuel K~ 33:US ~31:62/772,334 ~32:28/11/2018;33:US ~31:16/697,917 ~32:27/11/2019

2021/03529 ~ Complete ~54:FLOW DIVIDER FOR SPINNER SPREADER ~71:SALFORD GROUP INC., 364018 McBeth Road Salford, Canada ~72: FIELDS, Joshua Scott;GRAY, Geof J.;HAGLER, Richard;HOBSON, Brian;MCEVER, Russell;OWENBY, Steven Ray~ 33:US ~31:62/770,792 ~32:22/11/2018

2021/03602 ~ Provisional ~54:E-CHU ~71:Onkarabile Moagi, Plot 103, Felicity Road, Endicott,, South Africa ~72: Onkarabile Moagi~

2021/03603 ~ Provisional ~54:OTEGA DIGITAL,SLIDING MICROWAVE DOOR ~71:Apostle Adedege Adeniyi, 54 North RD, Regent Park, South Africa;Prophetess Siduduzillo Adedege, 54 North RD, Regent Park, South Africa ~72: Apostle Adedege Adeniyi;Prophetess Siduduzillo Adedege~

2021/03488 ~ Provisional ~54:EXTENDABLE ARM FOR A CENTRE PIVOT IRRIGATION SYSTEM ~71:BRITS, BAREND CHRISTOFFEL, FARM HONGERSPOORT, South Africa ~72: BRITS, BAREND CHRISTOFFEL~

2021/03494 ~ Complete ~54:A WEARABLE WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE ~71:TERRENCE KEITH ASHWIN, 18 COVENTRY ROAD, BRYANSTON, South Africa ~72: TERRENCE KEITH ASHWIN~

2021/03528 ~ Complete ~54:CONVERGENT NANOFABRICATION & NANOASSEMBLY METHODS, MEANS & APPLICATIONS THEREOF, PRODUCTS & SYSTEMS THEREFROM INCLUDING METHODS AND MEANS FOR CONVERSION OF POLLUTANTS TO USEFUL PRODUCTS ~71:RABANI, ELI, MICHAEL, 20919 Abalar, United States of America ~72: RABANI, ELI, MICHAEL~ 33:US ~31:62/749117 ~32:22/10/2018

2021/03516 ~ Complete ~54:ANTIBIOTIC COMPOUNDS, METHODS OF MANUFACTURING THE SAME, PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME AND USES THEREOF ~71:Debiopharm International S.A., Forum "après-demain", Chemin Messidor 5-7, LAUSANNE 1002, SWITZERLAND, Switzerland ~72: BRAVO, Juan;FINN, Terry;GERUSZ, Vincent;POHIN, Danig;REGENASS, Pierre-Michel;SUNOSE, Mihiro;TATSIS, Vasileios~ 33:EP ~31:18205619.2 ~32:12/11/2018;33:EP ~31:18213016.1 ~32:17/12/2018

2021/03518 ~ Complete ~54:LIPOSOMAL ENHANCED INTRA-PERITONEAL CHEMOTHERAPY ~71:TesoRx Pharma, LLC, 325 Sharon Park Drive, Suite 739, MENLO PARK 94025, CA, USA, United States of America ~72: BETAGERI, Guru V.;HONG, Teresa B.;HUTCHINSON, Lining Zhu;OEFELEIN, Michael G.;SWARNAKAR, Nitin K.;THIRUCOTE, Ramachandran;VENKATESAN, Natarajan~ 33:US ~31:62/755,026 ~32:02/11/2018

2021/03481 ~ Provisional ~54:BEER SHOTGUNNER ~71:MARK WYNESS VOSLOO, 47 NORTHOAKS PRIVATE ESTATE, NORTHOAKS AVENUE, HOUT BAY, South Africa ~72: MARK WYNESS VOSLOO~

2021/03496 ~ Complete ~54:A WIFI AUTHENTICATION SENSOR USED TO REGULATE CRYPTO CURRENCY TRANSACTIONS ~71:TERRENCE KEITH ASHWIN, 18 COVENTRY ROAD, BRYANSTON, South Africa ~72: TERRENCE KEITH ASHWIN~

2021/03513 ~ Complete ~54:HYDRAULIC PRESSURE POWER BATTERY ~71:YANJUN CHE, 9404 Shoveller Drive, Niagara Falls, Ontario, L2H 0M2, Canada ~72: YANJUN CHE~ 33:CA ~31:3022123 ~32:25/10/2018

2021/03517 ~ Complete ~54:MUTATED PIGGYBAC TRANSPOSASE ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: AGRAWAL, Neeraj J.;DARIS, Kristine

M.;LE, Huong Thi Ngoc;STEVENS, Jennitte L.;TALAVAN, Noelia Blanco~ 33:US ~31:62/777,325
~32:10/12/2018;33:US ~31:62/925,516 ~32:24/10/2019

2021/03480 ~ Provisional ~54:WATER TURBINE ~71:Mirko Kapikul, 18 River close, 10 Camellia Avenue, South Africa ~72: Mirko Kapikul~

2021/03495 ~ Complete ~54:A WIFI AUTHENTICATION SENSOR USED TO REGULATE BLOCK CHAIN TRANSACTIONS ~71:TERRENCE KEITH ASHWIN, 18 COVENTRY ROAD, BRYANSTON, South Africa ~72: TERRENCE KEITH ASHWIN~

2021/03501 ~ Complete ~54:AQUEOUS ELECTROLYTE, REDOX FLOW BATTERY AND USE THEREOF ~71:FRIEDRICH-SCHILLER-UNIVERSITÄT JENA, Fürstengraben 1, Germany ~72: SCHUBERT, Ulrich, Sigmar~ 33:DE ~31:10 2018 009 362.0 ~32:29/11/2018

2021/03506 ~ Complete ~54:MOBILE MINERAL MATERIAL PROCESSING STATION ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: SALMINEN, Vesa-Matti~ 33:FI ~31:20186128 ~32:21/12/2018

2021/03522 ~ Complete ~54:SYNERGISTIC HERBICIDE COMPOSITION OF BROAD-SPECTRUM FOR THE CONTROL OF WEEDS IN AGRICULTURAL CULTURES, USE OF SUCH COMPOSITION FOR PREPARATION OF PRODUCT, PRODUCT AND METHOD OF APPLICATION ~71:UPL Corporation Limited, 5th Floor, Newport Building, Louis Pasteur Street, PORT LOUIS, MAURITIUS, Mauritius ~72: BONNET, Marc;FORLIVIO, Daniel Marques;GONELLA, Luis Gustavo Rodrigues;LENZ, Giuvan;RIBAS PERES, Carlos Eduardo;VIEIRA DE CAMPOS, Luiz Carlos~ 33:BR ~31:BR 10 2018 075132 8 ~32:04/12/2018

2021/03491 ~ Provisional ~54:A GRID ANTENNA ~71:BICK, Anthony Aaron, 41b 4th Avenue, Illovo, Sandton, South Africa;FANAROFF, Stanley, c/o Stan Fanaroff & Associates, 107 Oxford Road, Rosebank, South Africa ~72: BICK, Anthony Aaron;CONFAIT, Jean-Pierre Julius~

2021/03499 ~ Complete ~54:METHODS FOR RENAL FUNCTION DETERMINATION ~71:MediBeacon Inc., 1100 Corporate Square Drive, Helix Center, Suite 175, ST. LOUIS 63132, MO, USA, United States of America ~72: DORSHOW, Richard B.;NEUMANN, William L.;RAJAGOPALAN, Raghavan;ROGERS, Thomas E.~ 33:US ~31:62/577,951 ~32:27/10/2017

2021/03527 ~ Complete ~54:METHOD AND APPARATUS FOR THE GENERATION AND DISTRIBUTION OF A FOG CONTAINING USEFUL THERMAL ENERGY ~71:NAMOR, Melhem, 30 West Meads, United Kingdom ~72: NAMOR, Melhem~ 33:GB ~31:1819269.0 ~32:27/11/2018

- APPLIED ON 5/25/2021 -

2021/03555 ~ Complete ~54:A WATER TREATMENT CARTRIDGE AND SPOUT UNITS COMPRISING IT ~71:STRAUSS WATER LTD, 1 Yehonatan Netanyahu, Or Yehuda, 6037601, Israel ~72: DROR MORAD;HAIM WILDER~ 33:CN ~31:201821779671.2 ~32:31/10/2018;33:IL ~31:262691 ~32:31/10/2018

2021/03561 ~ Complete ~54:PHARMACEUTICAL FORMULATIONS CONTAINING RELACORILANT, A HETEROARYL-KETONE FUSED AZADECALIN COMPOUND ~71:CORCEPT THERAPEUTICS INCORPORATED, 149 Commonwealth Drive, Menlo Park, United States of America ~72: ALSMEYER, Yan;ARBOLEDA, Stephen;CHIA, Yip-Fong;LEMONS, Travis;SCOTT, Ian~ 33:US ~31:62/781,983 ~32:19/12/2018

2021/03559 ~ Complete ~54:A PUMP ASSEMBLY ~71:ZIP INDUSTRIES (AUST) PTY LTD, 67 Allingham Street, Condell Park, New South Wales, 2200, Australia ~72: ANISH CHERIAN MATHEW;GARY NOBLE;KEVIN MOULT~ 33:AU ~31:2018904256 ~32:08/11/2018

2021/03563 ~ Complete ~54:PROBIOTIC DROP FOR IMPROVING ALLERGIC CONSTITUTION ~71:LOOBI (GUANGZHOU) HEALTH INDUSTRY CO., LTD, Unit A, Room 301, No. 16, Kehui 1st Street, Huangpu District, Guangzhou, People's Republic of China;RUGBY (GUANGDONG) HEALTH TECHNOLOGY CO., LTD, Unit B, Room 501, No. 16, Kehui 1st Street, Huangpu District, Guangzhou, People's Republic of China ~72: LI, Lihua;LI, Yichun;LIANG, Huiwen~ 33:CN ~31:202011226381.7 ~32:06/11/2020

2021/03534 ~ Provisional ~54:A SMARTPHONE EARLY WARNING SYSTEM TO DETECT THEFT OF A MOTOR VEHICLE ~71:DISCOVERY LIMITED, One Discovery Place, corner of Rivonia and Katherine Street, Sandton, 2196, South Africa ~72: ILAN OSSIN~

2021/03536 ~ Provisional ~54:OPERATIONS MANAGEMENT IN A WORKPLACE ENVIRONMENT ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: KRUGER, Karel;SPARROW, Dale Eric~

2021/03545 ~ Complete ~54:METHODS OF INHIBITING NEUTROPHIL RECRUITMENT TO THE GINGIVAL CREVICE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: CHEN, Dandan;DAEP, Carlo;MASTERS, James;TRIVEDI, Harsh Mahendra;ZENOBIA, Camille~ 33:US ~31:62/785,147 ~32:26/12/2018

2021/03549 ~ Complete ~54:N-(4-(OXAZOL-5-YL)PHENYL)CHROMANE-3-CARBOXAMIDE DERIVATIVES AND RELATED COMPOUNDS AS STIMULATORS OF THE PRODUCTION OF RETINAL PRECURSOR CELLS FOR THE TREATMENT OF NEURORETINAL DISEASES ~71:endogena therapeutics, inc., 111 Pine Street, SAN FRANCISCO 94111, CA, USA, United States of America ~72: FASCHING, Bernhard;MARIGO, Mauro;MOKADY, Daphna;MUELLER, Alex;STEGER, Matthias~ 33:US ~31:16/235,429 ~32:28/12/2018

2021/03560 ~ Complete ~54:MULTIVALENT PNEUMOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE VACCINE ~71:BIOLOGICAL E LIMITED, 18/1 & 3, Azamabad, India ~72: BURKI, Rajendar;DATLA, Mahima;KANDIMALLA, Vivek Babu;MANTENA, Narender Dev;MASILAMANI, Balamurali;MATUR, Ramesh Venkat;SANGAREDDY, Veerapandu;SRIRAMAN, Rajan~ 33:IN ~31:201841038835 ~32:12/10/2018

2021/03553 ~ Complete ~54:REPORTING OF COEFFICIENTS FOR CHANNEL STATE INFORMATION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: FAXÉR, Sebastian;GIRNYK, Maksym;TIMO, Roy;WANG, Zhao;WERNERSSON, Niklas~ 33:US ~31:62/778,665 ~32:12/12/2018

2021/03558 ~ Complete ~54:METHOD AND SYSTEM FOR CLEANING A STORAGE TANK USING A PLURALITY OF DEVICES ~71:CYC INTERNATIONAL PTE. LTD., 5 Marsiling Ind. Estate Road 3 #01-53 Marsiling Industrial Estate, 739251, Singapore ~72: SWEE TIEN DANNY CHUA~ 33:SG ~31:10201902401Y ~32:18/03/2019

2021/03532 ~ Provisional ~54:MINE HOIST ~71:Marius Wynand Pitzer, 16 Vaal River, Harmony, South Africa ~72: Marius Wynand Pitzer~

2021/03542 ~ Complete ~54:MACROCYCLIC COMPOUND AND USE THEREOF ~71:SCOHIA PHARMA, INC., 26-1, Muraoka-Higashi 2-chome, FUJISAWA-SHI 2518555, KANAGAWA, JAPAN, Japan ~72: FUKUSHI, Hideto;HARA, Ryoma;IKOMA, Minoru;KOBAYASHI, Toshitake;MAEKAWA, Tsuyoshi;MATSUMOTO, Shigemitsu;NIIDA, Ayumu;NOGUCHI, Naoyoshi;SASAKI, Satoshi~ 33:JP ~31:2018-228234 ~32:05/12/2018

2021/03548 ~ Complete ~54:TYK2 INHIBITORS AND USES THEREOF ~71:Nimbus Lakshmi, Inc., 130 Prospect Street, Suite 301, CAMBRIDGE 02139, MA, USA, United States of America ~72: GREENWOOD, Jeremy Robert;MASSE, Craig E.~ 33:US ~31:62/773,620 ~32:30/11/2018

2021/03551 ~ Complete ~54:HYBRID POWER GENERATION SYSTEM WITH POWER OUTPUT SMOOTHING OPERATION ~71:GENERAL ELECTRIC COMPANY, 1 River Road, United States of America ~72: YAN, Min~ 33:US ~31:62/799,114 ~32:31/01/2019

2021/03544 ~ Complete ~54:BIOMARKERS OF NEUTROPHIL DEREGULATION AS DIAGNOSTIC FOR GINGIVITIS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: TRIVEDI, Harsh Mahendra;YANG, Ying;ZENOBIA, Camille~ 33:US ~31:62/785,167 ~32:26/12/2018

2021/03533 ~ Provisional ~54:SYSTEM AND METHOD FOR CREATING, RANKING, INTEGRATING AND IMPLEMENTING PLANS IN A MINING AND PRODUCTION PROCESS ~71:MINERP SOUTH AFRICA (PTY) LIMITED, Ground Floor,267 West Street,, South Africa ~72: LOUBSER, Andries George Hendrik;MEGANNON, John Francis;VU KOVIC, Sinisa;WOODHALL, Michael~

2021/03535 ~ Provisional ~54:LIQUID FUEL LAMP ~71:Golden Fried Chicken (Pty) Ltd, 53 Booyens Road, Booyens, Johannesburg, Gauteng, South Africa ~72: COLLYER, Brett Lee~

2021/03537 ~ Provisional ~54:CAR LAYBYE ~71:CARBY, 383 Main Reef Road , Wentworth Park, South Africa ~72: Sakhile Matsimela;Thabo Letopa~

2021/03541 ~ Complete ~54:CROP INPUT APPLICATION SYSTEMS, METHODS, AND APPARATUS ~71:MA INDUSTRIES, LLC, 180 Detroit Avenue, Morton, IL, United States of America ~72: ABERLE, Reid;KOCH, Justin, L.;MOORE, Nowell;NUEST, Steven;SAUDER, Gregory, A.;SAUDER, Timothy;WELTE, Jonathan, T.~ 33:US ~31:62/769,378 ~32:19/11/2018

2021/03543 ~ Complete ~54:ORAL CARE COMPOSITIONS COMPRISING A POLYVINYL CAPRALACTAM-POLYVINYL ACETATE-POLYETHYLENE GLYCOL GRAFT COPOLYMER, AND METHODS FOR THE SAME ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: MAO, Junhong;XU, Guofeng;YUAN, Shaotang~ 33:US ~31:62/785,079 ~32:26/12/2018

2021/03547 ~ Complete ~54:METHODS OF SHIFTING BIOFILM IN THE ORAL CAVITY FROM PATHOGENIC TO HEALTHY BIOFILM ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: CHEN, Dandan;DAEP, Carlo;MASTERS, James;TRIVEDI, Harsh Mahendra;ZENOBIA, Camille~ 33:US ~31:62/785,058 ~32:26/12/2018

2021/03550 ~ Complete ~54:SUICIDE GENE ~71:Board of Regents, The University of Texas System, 210 West 7th Street, AUSTIN 78701, TX, USA, United States of America ~72: REZVANI, Katy;SHPALL, Elizabeth~ 33:US ~31:62/769,405 ~32:19/11/2018;33:US ~31:62/773,372 ~32:30/11/2018;33:US ~31:62/791,464 ~32:11/01/2019

2021/03554 ~ Complete ~54:AGENT FOR INHIBITING IRON UPTAKE INTO CELLS ~71:PERSEUS PROTEOMICS INC., Park Bldg., 7-6, Komaba 4-chome, Meguro-ku, Tokyo, 1530041, Japan ~72: FUMIKO NOMURA;KEIKO KATSUMI;LILIN ZHANG;ROMI KOTAKA;YUTA OHIRA~ 33:JP ~31:2018-217548 ~32:20/11/2018;33:JP ~31:2019-167013 ~32:13/09/2019

2021/03562 ~ Complete ~54:METHOD FOR CONSTRUCTION OF SUGARCANE BROWN RUST RESISTANCE GENE MAPPING GENETIC SEGREGATION COLONY ~71:SUGARCANE RESEARCH INSTITUTE, YUNNAN ACADEMY OF AGRICULTURAL SCIENCES, Jin-Yu Wu / Scientific Research Management Department/ 2th Floor No. 363 Lingquan East Road Kaiyuan, People's Republic of China ~72: CANG, Xiao-Yan;HUANG, Ying-Kun;LI, Jie;LI, Wen-Feng;LUO, Zhi-Ming;SHAN, Hong-Li;WANG, Xiao-Yan;YIN, Jiong;ZHANG, Rong-Yue~ 33:CN ~31:201910076734.0 ~32:27/01/2019

2021/03540 ~ Complete ~54:MINING SUBSIDENCE PREDICTION METHOD BASED ON IMPROVED BOLTZMANN FUNCTION ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CHI, SHENGSHENG;JIANG, CHUANG;LV, WEICAI;WANG, LEI;YU, XUEXIANG~ 33:CN ~31:202010468314.X ~32:28/05/2020

2021/03546 ~ Complete ~54:ORAL CARE COMPOSITIONS AND METHODS FOR THE SAME ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: DOGO-ISONAGIE, Cajetan;PIMENTA, Paloma;YUAN, Shaotang~

2021/03556 ~ Complete ~54:DELIVERY CONSTRUCTS FOR TRANSCYTOSIS AND RELATED METHODS ~71:APPLIED MOLECULAR TRANSPORT INC., 1 Tower Place, Suite 850, South San Francisco, California, 94080, United States of America ~72: AMIR PORAT;CHARLES OLSON;ELBERT SETO;RANDALL J MRSNY;SALLY POSTLETHWAITHE;TAHIR MAHMOOD;WEIJUN FENG~ 33:US ~31:62/756,889 ~32:07/11/2018;33:US ~31:PCT/US2019/021474 ~32:08/03/2019;33:US ~31:62/888,133 ~32:16/08/2019;33:US ~31:62/888,238 ~32:16/08/2019;33:US ~31:PCT/US2019/050708 ~32:11/09/2019

2021/03538 ~ Complete ~54:A METHOD OF EXTRACTING XANTHOTOXOL FROM THE ROOT OF ANGELICA DAHURICA ~71:Anhui Science And Technology University, No. 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: Dou Jinfeng;Fang Yanxi;Zhang Xinyong;Zhou Lili~

2021/03539 ~ Complete ~54:METHOD AND SYSTEM FOR UTILITY VENDING, PAYMENTS AND DEBT COLLATERALIZATION ~71:BENLACHTAR, Yannis, Flat 56 Riva Building, 104-120 Lee High Road, United Kingdom ~72: BENLACHTAR, Yannis~ 33:ZA ~31:2020/07731 ~32:11/12/2020

2021/03552 ~ Complete ~54:THERAPEUTIC DENDRIMER ~71:STARPHARMA PTY LTD, 4-6 Southamton Crescent, Australia ~72: DIETINGER, Christine Elisabet;KELLY, Brian Devlin;OWEN, David James~ 33:AU ~31:2018904431 ~32:20/11/2018;33:AU ~31:2019901708 ~32:20/05/2019;33:AU ~31:2019903358 ~32:10/09/2019

2021/03557 ~ Complete ~54:BACTERIAL COMPOSITIONS AND METHODS FOR CONTROLLING PLANT PESTS AND IMPROVING PLANT HEALTH ~71:AGBIOME, INC., P.O. Box 14069, Durham, North Carolina, 27709, United States of America ~72: ESTHER GACHANGO~ 33:US ~31:62/752,542 ~32:30/10/2018

- APPLIED ON 5/26/2021 -

2021/03567 ~ Complete ~54:PROCESS FOR PREPARING (1R,2S)-1-(6-BROMO-2-METHOXYQUINOLIN-3-YL)-4-DIMETHYLAMINO-2-(1-NAPHTHYL)-1-PHENYL-BUTAN-2-OL AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF ~71:DONG-A ST CO., LTD., 64, Cheonho-daero, Dongdaemun-gu, Seoul, 02587, Republic of Korea ~72: CHANG-YONG SHIN;JAEHAN KIM;YONG JIK KIM~ 33:KR ~31:10-2020-0081133 ~32:01/07/2020

2021/03568 ~ Complete ~54:WEAR ASSEMBLY ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: CHEYNE, Mark A.;CONKLIN, Donald M.;COWGILL, Noah;HAINLEY, Chris J.;ROSKA, Michael B.;ZENIER, Scott H.~ 33:US ~31:61/507,726 ~32:14/07/2011;33:US ~31:61/576,929 ~32:16/12/2011

2021/03595 ~ Complete ~54:COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR STORING DATA ON A BLOCKCHAIN ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;TARTAN, Chloe Ceren;VAUGHAN, Owen;WRIGHT, Craig Steven~ 33:GB ~31:1819284.9 ~32:27/11/2018;33:GB ~31:1819286.4

~32:27/11/2018;33:GB ~31:1819290.6 ~32:27/11/2018;33:GB ~31:1819291.4 ~32:27/11/2018;33:GB
~31:1819293.0 ~32:27/11/2018;33:GB ~31:1819297.1 ~32:27/11/2018;33:GB ~31:1819299.7 ~32:27/11/2018

2021/03573 ~ Complete ~54:METHOD AND DEVICE FOR PLUGGING UNDERGROUND ROADWAY
~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui
Province, 232001, People's Republic of China ~72: Changdong DING;Chuanming LI;Haifeng MA;Jucal
CHANG;Wenbao SHI~

2021/03596 ~ Complete ~54:ANTIBODIES SPECIFICALLY RECOGNIZING GRANULOCYTE-MACROPHAGE
COLONY STIMULATING FACTOR RECEPTOR ALPHA AND USES THEREOF ~71:Staidson (Beijing)
Biopharmaceuticals Co., Ltd., No.36, Jinghai Er Road, Beijing Economic-Technological Development Area,
BEIJING 100176, CHINA (P.R.C.), People's Republic of China ~72: HUANG, Qun;WU, Ran;ZHANG,
Qingshuang;ZHU, Pingxia~ 33:CN ~31:PCT/CN2018/117581 ~32:27/11/2018

2021/03574 ~ Complete ~54:TENSION FRACTURE SLOPE MEASURING DEVICE ~71:Anhui University of
Science & Technology, Tianjia District, Hefei City, Anhui Province, 232000, People's Republic of
China;Huaibei Mining Co., Ltd., No. 276, Renmin Middle Road, Xiangshan District, Huaibei City, Anhui Province,
People's Republic of China ~72: CHEN, Xiaoyang;FAN, Tingyu;HUANG, He;LU, Akang;NI, Jianming;WANG,
Dashe;WANG, Shun;WANG, Xingming;WANG, Yulian;WEI, Xiangping;XU, Liangji;YAN, Jiaping;ZHONG, Jian~
33:CN ~31:202010651672.4 ~32:08/07/2020

2021/03588 ~ Complete ~54:MONOMETHYL FUMARATE-CARRIER CONJUGATES AND METHODS OF
THEIR USE ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor,
Cambridge, Massachusetts, 02142, United States of America ~72: AFRAND KAMALI SARVESTANI;ANNA
LIANG;BERNARD LANTER;CHERI ROSS;DAVID ARTHUR BERRY;DINARA SHASHANKA
GUNASEKERA;JESSICA ELIZABETH ALEXANDER;JOHN PATRICK JR CASEY;KATHLEEN NUDEL;KOJI
YASUDA;LEONARD BUCKBINDER;MI-JEONG KIM;SPENCER CORY PECK;STEVEN JOHN
TAYLOR;TIMOTHY BRIGGS~ 33:US ~31:62/776,430 ~32:06/12/2018;33:US ~31:62/938,610 ~32:21/11/2019

2021/03587 ~ Complete ~54:COMPOUNDS, PHARMACEUTICAL COMPOSITIONS, AND METHODS OF
PREPARING COMPOUNDS AND OF THEIR USE AS ATR KINASE INHIBITORS ~71:REPARE
THERAPEUTICS INC., 7210 Frederick-Banting, Suite 100 St-Laurent, Quebec, H4S 2A1, Canada ~72:
ABBAS ABDOLI;AUDREY PICARD;CAMERON BLACK;CYRUS M LACBAY;JEAN-FRANCOIS
TRUCHON;LEE FADER;MIGUEL ST-ONGE;PAUL JONES;SHELDON N CRANE;STEPHANE
DORICH;STEPHANE PHANIE LANOIX;VOUY LINH TRUONG~ 33:US ~31:62/752,873 ~32:30/10/2018;33:US
~31:62/877,177 ~32:22/07/2019

2021/03589 ~ Complete ~54:ANTI-ACNE PHARMACEUTICAL COMPOSITIONS ~71:University of Pretoria,
Lynnwood Road, South Africa ~72: LALL, Namrita;LAMBRECHTS, Isa Anina~ 33:ZA ~31:2018/08307
~32:10/12/2018

2021/03584 ~ Complete ~54:COAL POWDER PRETREATMENT METHOD AND COAL POWDER
GASIFICATION METHOD ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, No. 22 Chaoyangmen
North Street, Chaoyang District, People's Republic of China;SINOPEC NANJING RESEARCH INSTITUTE OF
CHEMICAL INDUSTRY CO., LTD., No. 699 Geguan Road Jiangbei New Area District, Nanjing, People's Republic
of China ~72: CAI, Jin;HUANG, Xianliang;LI, Haitao;WANG, Huijun;WANG, Jinli;WU, Lin;WU, Xueqi;XU,
Bengang;YIN, Yusheng;YU, Yang;ZHANG, Jie;ZHU, Yanfang~ 33:CN ~31:201811270816.0 ~32:29/10/2018

2021/03591 ~ Complete ~54:CROSSLINKED ARTIFICIAL NUCLEIC ACID ALNA ~71:Mitsubishi Tanabe Pharma
Corporation, 3-2-10, Dosho-machi, Chuo-ku, Osaka-shi, OSAKA 541-8505, JAPAN, Japan;Osaka University, 1-1,

Yamadaoka, Suite-Shi, OSAKA 565-0871, JAPAN, Japan ~72: ARAKI, Tomo;FURUKAWA, Hiroyuki;KUMAGAI, Shinji;OBIKA, Satoshi;SAWAMOTO, Hiroaki;UTSUGI, Masayuki~ 33:JP ~31:2018-212424 ~32:12/11/2018

2021/03575 ~ Complete ~54:NOVEL POLYMORPHIC FORMS OF A TGFB INHIBITOR ~71:PFIZER INC., 235 East 42nd Street, United States of America ~72: ROBBINS, Andrew;ROY, Iain, David;SISTLA, Anand,Venkataramana~ 33:US ~31:62/782,411 ~32:20/12/2018;33:US ~31:62/930,170 ~32:04/11/2019

2021/03576 ~ Complete ~54:BISPECIFIC ANTI-MUC16 X ANTI-CD28 ANTIBODIES AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CRAWFORD, Alison;HABER, Lauric;HERMANN, Aynur;MURPHY, Andrew, J.;SKOKOS, Dimitris;SMITH, Eric;ULLMAN, Erica;WAITE, Janelle;YANCOPOULOS, George, D.~ 33:US ~31:62/782,142 ~32:19/12/2018;33:US ~31:62/815,861 ~32:08/03/2019

2021/03566 ~ Complete ~54:FLOOD ANALYSIS METHOD BASED ON ONE-DIMENSIONAL RIVER NETWORK GENERALIZATION AND HIGH-PERFORMANCE ONE-TWO-DIMENSIONAL COUPLING ~71:China Institute of Water Resources and Hydropower Research, 20, Chegongzhuang West Road, Haidian District, Beijing, People's Republic of China ~72: Deng Jun;Jiang Xiaoming;Jiang Xinlan;Liu Yun;Qiao Nan;Qin Tianling;Wang Yanwei;Yang Xiaojing;Zhang Cheng;Zhang Hongbin;Zhou Bo;Zhu Cheng~

2021/03569 ~ Complete ~54:WEAR ASSEMBLY ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: CHEYNE, Mark A.;CONKLIN, Donald M.;COWGILL, Noah;HAINLEY, Chris J.;ROSKA, Michael B.;ZENIER, Scott H.~ 33:US ~31:61/507,726 ~32:14/07/2011;33:US ~31:61/576,929 ~32:16/12/2011

2021/03601 ~ Complete ~54:FILTER ASSEMBLY, KIT AND METHODS ~71:NATURE METRICS LTD, ; CABI Site Bakeham Lane Egham Surrey, United Kingdom ~72: BRUCE, Catharine;TANG, Cuong;TOWNEND, Scott~ 33:GB ~31:1820992.4 ~32:21/12/2018

2021/03604 ~ Provisional ~54:G9 TYPER ~71:GIFT NKOSI, 283 BLOCK F4, NEW EERSTRUST, South Africa;JUNIOR CHIMBOMA NKOSI, 283 BLOCK F4, NEW EERSTRUST, South Africa ~72: GIFT NKOSI;JUNIOR CHIMBOMA NKOSI~

2021/03577 ~ Complete ~54:COMBINATION THERAPIES FOR HIGH AND VERY HIGH RISK MDS ~71:MEI PHARMA, INC., 11455 El Camino Real, Suite 250, United States of America ~72: GHALIE, Richard~ 33:US ~31:62/773,490 ~32:30/11/2018

2021/03585 ~ Complete ~54:DRINKING CUP ~71:B.BOX FOR KIDS DEVELOPMENTS PTY LTD, Unit 5, 677 Springvale Road, Mulgrave, Victoria, 3170, Australia ~72: LISA EDLUND TJERNBERG;MAYER CHARLES WILLIAM JUNG;NAVIN CHANDRAKANTH CHANDRASEKARAN;SYLVAIN JACQUES AMATOURY;TY GERARD HERMANS~ 33:AU ~31:2018904571 ~32:30/11/2018

2021/03590 ~ Complete ~54:COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR DISTRIBUTING SHARES OF DIGITALLY SIGNED DATA ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: WRIGHT, Craig Steven~ 33:GB ~31:1817507.5 ~32:27/10/2018

2021/03599 ~ Complete ~54:PROCESS FOR PREPARING A COBALT-CONTAINING CATALYST PRECURSOR AND PROCESS FOR HYDROCARBON SYNTHESIS ~71:SASOL SOUTH AFRICA LIMITED, Sasol Place, Katherine Street, SANDTON 2196, SOUTH AFRICA, South Africa ~72: BOTHA, Jan Mattheus;DAVEL, Jolandie Zonja;GAUCHÉ, Jean Louis;MOODLEY, Denzil James;PIENAAR, Cornelia;POTGIETER, Jana Heloise;SWART, Jurie Christiaan Wessels~ 33:ZA ~31:2018/08304 ~32:10/12/2018

2021/03582 ~ Complete ~54:DNA-CUTTING AGENT ~71:JOINT STOCK COMPANY "BIOCAD", Liter A. Svyazi st., 34, Strelna, Petrodvortsoviy district, Russian Federation ~72: ABRAMOVA, Marina Viktorovna; ARSENIYEV, Anatolii Nikolaevich; ARTAMONOVA, Daria Nikolaevna; ARTAMONOVA, Tatiana Olegovna; FEDOROVA, Iana Vitalevna; GORYANIN, Ignatij Igorevich; KHODORKOVSKIY, Mikhail Alekseevich; MUSHAROVA, Olga Sergeevna; PISKUNOVA, Iuliia Valerevna; POBEGALOV, Georgii Evgenevich; SELKOVA, Polina Anatolevna; SEVERINOV, Konstantin Viktorovich; SHMAKOV, Sergey Anatolevich; VASILEVA, Aleksandra Andreevna; ZYUBKO, Tatyana Igorevna ~ 33:RU ~31:2018141534 ~32:26/11/2018

2021/03580 ~ Complete ~54:AMINOPEPTIDASE A INHIBITORS AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 RUE MICHEL ANGE, 75016 PARIS, FRANCE, France; COLLEGE DE FRANCE, 11, PLACE MARCELIN BERTHELOT, 75005 PARIS, FRANCE, France; INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France; QUANTUM GENOMICS, 33, RUE MARBEUF, 75008 PARIS, FRANCE, France ~72: BALAVOINE, Fabrice; COMPERE, Delphine; LLORENS-CORTES, Catherine; MARC, Yannick ~ 33:EP ~31:18306396.5 ~32:26/10/2018

2021/03570 ~ Complete ~54:AUTONOMOUS READY VEHICLE ~71:Polaris Industries Inc., 2100 Highway 55, MEDINA 55340, MN, USA, United States of America ~72: BLAIR, Kevin P.; KOENIG, David J.; MALONE, Amber P.; SYTSMA, Cole A.; WELDON, Patrick D. ~ 33:US ~31:62/091,946 ~32:15/12/2014

2021/03579 ~ Complete ~54:BASEBAND PROCESSING CAPABILITY HANDLING IN SPLIT DEPLOYMENT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: CUI, Tao; FIORANI, Matteo; PAPPAS, Ioanna; SILVERIS, Paulson, Angelo, Vijay ~ 33:US ~31:62/754,914 ~32:02/11/2018

2021/03594 ~ Complete ~54:COMPUTER IMPLEMENTED SYSTEMS AND METHODS FOR STORING, RETRIEVING AND COMMUNICATION DATA VIA A PEER-TO-PEER NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen; TARTAN, Chloe Ceren; VAUGHAN, Owen; WRIGHT, Craig Steven ~ 33:GB ~31:1819284.9 ~32:27/11/2018; 33:GB ~31:1819286.4 ~32:27/11/2018; 33:GB ~31:1819290.6 ~32:27/11/2018; 33:GB ~31:1819291.4 ~32:27/11/2018; 33:GB ~31:1819293.0 ~32:27/11/2018; 33:GB ~31:1819297.1 ~32:27/11/2018; 33:GB ~31:1819299.7 ~32:27/11/2018

2021/03598 ~ Complete ~54:GAS FLOW AND SOUND CONTROL VALVE AND EXHAUST GAS SYSTEM ~71:Akrapovic d.d., Malo hudo 8a, IVANCNA GORICA 1295, SLOVENIA, Slovenia ~72: AKRAPOVIC, Igor; PENCA, Jure ~ 33:EP ~31:18208611.6 ~32:27/11/2018

2021/03565 ~ Provisional ~54:EXTRACTS OF SACCHARIDES FROM UVARIA BREVISTIPITATA DE WILD ~71:CREPPAT LABORATORIES PROPRIETARY LIMITED, 80 Frere Road, VINCENT, East London 5247, SOUTH AFRICA, South Africa ~72: BASHENGEZI, Constantin Mihigo Ighanz Kulimushi ~

2021/03572 ~ Complete ~54:MACHINE LEARNING MODELS OF LIVESTOCK VALUE CHAIN ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: AKHALWAYA, Ismail Yunus; KHAN, Naweed Aghmad; LUUS, Francois Pierre; MUTAHI, Juliet; TER-MINASSIAN, Lucile; WELDEMARIAM, Komminist ~ 33:US ~31:16/884,746 ~32:27/05/2020

2021/03578 ~ Complete ~54:DNA-CUTTING AGENT ~71:JOINT STOCK COMPANY "BIOCAD", Liter A. Svyazi st., 34, Strelna, Petrodvortsoviy district, Russian Federation ~72: ABRAMOVA, Marina Viktorovna; ARSENIYEV, Anatolii Nikolaevich; ARTAMONOVA, Daria Nikolaevna; ARTAMONOVA, Tatiana Olegovna; FEDOROVA, Iana Vitalevna; GORYANIN, Ignatij Igorevich; KHODORKOVSKIY, Mikhail

Alekseevich;MUSHAROVA, Olga Sergeevna;PISKUNOVA, Iuliia Valerevna;POBEGALOV, Georgii Evgenevich;SELKOVA, Polina Anatolevna;SEVERINOV, Konstantin Viktorovich;SHMAKOV, Sergey Anatolevich;VASILEVA, Aleksandra Andreevna;ZYUBKO, Tatyana Igorevna~ 33:RU ~31:2018141524 ~32:26/11/2018

2021/03593 ~ Complete ~54:SYSTEMS AND METHODS FOR EFFICIENT AND SECURE PROCESSING, ACCESSING AND TRANSMISSION OF DATA VIA A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;TARTAN, Chloe Ceren;VAUGHAN, Owen;WRIGHT, Craig Steven~ 33:GB ~31:1819284.9 ~32:27/11/2018;33:GB ~31:1819286.4 ~32:27/11/2018;33:GB ~31:1819290.6 ~32:27/11/2018;33:GB ~31:1819291.4 ~32:27/11/2018;33:GB ~31:1819293.0 ~32:27/11/2018;33:GB ~31:1819297.1 ~32:27/11/2018;33:GB ~31:1819299.7 ~32:27/11/2018

2021/03600 ~ Complete ~54:DENDRIMER FOR THERAPY AND IMAGING ~71:STARPHARMA PTY LTD, 4-6 Southampton Crescent, Australia ~72: HUFTON, Richard;OWEN, David James;THURECHT, Kristofer James~ 33:AU ~31:2018904548 ~32:29/11/2018

2021/03571 ~ Complete ~54:AI-ASSISTED DETECTION AND PREVENTION OF UNWANTED NOISE ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: GORDON, Michael S.;KHAN, Naweed Aghmad;KURIEN, Toby;WELDEMARIAM, Komminist~ 33:US ~31:16/884,278 ~32:27/05/2020

2021/03581 ~ Complete ~54:NOVEL AMINOPHOSPHINIC DERIVATIVES AS AMINOPEPTIDASE A INHIBITORS ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 RUE MICHEL ANGE, 75016 PARIS, FRANCE, France;COLLEGE DE FRANCE, 11, PLACE MARCELIN BERTHELOT, 75005 PARIS, FRANCE, France;INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France;QUANTUM GENOMICS, 33, RUE MARBEUF, 75008 PARIS, FRANCE, France ~72: BALAVOINE, Fabrice;COMPERE, Delphine;LLORENS-CORTES, Catherine~ 33:EP ~31:18306398.1 ~32:26/10/2018

2021/03597 ~ Complete ~54:APPARATUS AND METHOD FOR PROCESSING IRON ORE ~71:Fortescue Metals Group Ltd, Level 2 87 Adelaide Terrace, EAST PERTH 6004, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: HARRIS, Warren;JOLLEY, Daniel~ 33:AU ~31:2018904512 ~32:27/11/2018

2021/03564 ~ Provisional ~54:MOBILE COLLAPSIBLE HAMMOCK STAND ~71:Paul Forsythe, 1 Ada Street, South Africa ~72: Paul Forsythe~

2021/03583 ~ Complete ~54:COMBINATION COMPOSITIONS COMPRISING A BETA-LACTAMASE INHIBITOR AND USES THEREOF ~71:VENATORX PHARMACEUTICALS, INC., 30 Spring Mill Drive, United States of America ~72: BURNS, Christopher J.;CONDON, Stephen M.;DAIGLE, Denis;DRAGER, Anthony;HAMRICK, Jodie;HENKEL, Timothy;MYERS, Cullen L.;PEVEAR, Daniel C.;ROSEN, Lawrence;TROUT, Robert E. Lee;XERRI, Luigi~ 33:US ~31:62/773,063 ~32:29/11/2018;33:US ~31:62/777,643 ~32:10/12/2018;33:US ~31:62/796,524 ~32:24/01/2019;33:US ~31:62/828,354 ~32:02/04/2019;33:US ~31:62/832,118 ~32:10/04/2019

2021/03586 ~ Complete ~54:SYNCHRONIZATION OF CONVEYOR BELT AND DRIVE BELT OF AN INCLINED CONVEYOR ~71:REMA TIP TOP AG, Gruber Str. 65, 85586, Poing, Germany ~72: GÜNTER BUSSE~ 33:DE ~31:10 2018 222 857.4 ~32:21/12/2018

2021/03592 ~ Complete ~54:EDARAVONE SUSPENSION FOR ORAL ADMINISTRATION ~71:Mitsubishi Tanabe Pharma Corporation, 3-2-10, Doshomachi, Chuo-ku, OSAKA-SHI 5418505, OSAKA, JAPAN, Japan ~72:

HAYAMA, Tetsuo;HAYASHI, Kouji;MATSUDA, Munetomo;MIYAZAWA, Tadashi;OMURA, Tomoyuki;TAKAHASHI, Tomohiro~ 33:JP ~31:2018-207646 ~32:02/11/2018

- APPLIED ON 5/27/2021 -

2021/03606 ~ Provisional ~54:SAFETY AND CONTROL DEVICE ~71:JACOBUS, Willem Johannes, Heuwelsig 14, South Africa;VAN ASWEGEN, Hendrik Willem Troskie, Heuwelsig 14, South Africa ~72: VAN ASWEGEN, Hendrik Willem Troskie~

2021/03624 ~ Complete ~54:MULTIVARIATE AND OTHER METAL-ORGANIC FRAMEWORKS, AND USES THEREOF ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor Oakland, United Republic of Tanzania ~72: HANIKEL, Nikita;LYU, Hao;YAGHI, Omar M.~ 33:UY ~31:62/771,537 ~32:26/11/2018

2021/03636 ~ Complete ~54:A SENSOR, SYSTEM AND METHOD FOR DETECTING OR SENSING MOISTURE OR WETNESS OF AN ARTICLE ~71:TILKOBLEDE BELGIUM BVBA, Kloosterstraat 180, , 1702, Dilbeek, Belgium ~72: BENOIT VAN DE SANDE;BRAM VAN DE SANDE~ 33:NZ ~31:748811 ~32:28/11/2018

2021/03639 ~ Complete ~54:FERRITIC STAINLESS STEEL ~71:OUTOKUMPU OYJ, Salmisaarenranta 11, Finland ~72: JUUTI, Timo;KELA, Juha;MANNINEN, Timo~ 33:EP ~31:18215480.7 ~32:21/12/2018

2021/03642 ~ Complete ~54:MICROCAPSULE COMPOSITION, METHOD FOR MANUFACTURING SAME, AGROCHEMICAL FORMULATION COMPRISING SAME AND WEED CONTROL METHOD ~71:Kumiai Chemical Industry Co., Ltd., 4-26, Ikenohata 1-chome, Taito-ku, TOKYO 1108782, JAPAN, Japan ~72: OKADA, Yuya~ 33:JP ~31:2018-205755 ~32:31/10/2018

2021/03610 ~ Provisional ~54:PROCESSING OF SEEDS OF FRUIT ~71:VAN HEERDEN, Ferdinand, Goßlter Street 18, Germany ~72: NTEMI, Augustine Mahbu (Dr);VAN HEERDEN, Ferdinand~

2021/03628 ~ Complete ~54:ACTIVATABLE ANTI-CD166 ANTIBODIES AND METHODS OF USE THEREOF ~71:CYTOMX THERAPEUTICS, INC., 151 OYSTER POINT BOULEVARD, SUITE 400, SOUTH SAN FRANCISCO, CALIFORNIA 94080, USA, United States of America ~72: CARMAN, Lori;HUMPHREY, Rachel;KAVANAUGH, W., Michael;TERRETT, Jonathan, A.;WEAVER, Annie, Yang;WILL, Matthias~ 33:US ~31:62/755,247 ~32:02/11/2018;33:US ~31:62/788,714 ~32:04/01/2019;33:US ~31:62/789,403 ~32:07/01/2019;33:US ~31:62/810,173 ~32:25/02/2019;33:US ~31:62/826,465 ~32:29/03/2019

2021/03646 ~ Complete ~54:RECOVERY OF ENERGY IN RESIDUE GASES ~71:Swedish Stirling AB, Gruvgatan 35 B, VÄSTRA FRÖLUNDA 421 30, SWEDEN, Sweden ~72: LARSSON, Gunnar~ 33:EP ~31:18214336.2 ~32:20/12/2018

2021/03611 ~ Provisional ~54:MEDICAL PROVIDER ~71:Gene Faul, P110 Rhenosterfontein, South Africa ~72: Gene Faul~

2021/03630 ~ Complete ~54:METHOD AND ARRANGEMENT FOR PROCESS WATER TREATMENT ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: JANSSON, Kaj~ 33:WO ~31:PCT/FI2018/050787 ~32:29/10/2018

2021/03618 ~ Complete ~54:CONTEXTUAL SAFETY ASSESSMENT, RECOMMENDATIONS, PROVISIONING AND MONITORING ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: MAKHANYA, Sibusisiwe Audrey;MAPIYE, Darlington Shingirirai;MOLAPO, Maletsabisa;MOODLEY, Chane Simone~ 33:US ~31:16/887,692 ~32:29/05/2020

2021/03616 ~ Complete ~54:AN APPLICATION METHOD OF AN ANTI-IMPACT AND CO-RELIEVING ANNULAR SUPPORT IN DEEP WELL ROADWAY ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Juejing FANG;Ke YANG;Shuai LIU;Xin LV;Yankun MA~

2021/03635 ~ Complete ~54:ANIMAL MODEL FOR AMPLIFYING HUMAN OR ANIMAL CIRCULATING TUMOR CELLS ~71:HOSPICES CIVILS DE LYON, 3, quai des Cestins, 69002, Lyon, France;INOVOTION, Biopolis 5 Avenue du Grand Sablon, 38700, La Tronche, France;UNIVERSITE CLAUDE BERNARD LYON 1, 43, Bvd Du 11 Novembre 1918, 69100, Villeurbanne, France ~72: DENIS MAILLET;EMILIEN DOSDA;JEAN VIALLET;A PAYEN-GAY;XAVIER ROUSSET~ 33:FR ~31:1859992 ~32:29/10/2018

2021/03617 ~ Complete ~54:A VEHICLE SEAT ARTICULATION KIT ~71:VAN EIJK, Mattheus Casparus Rene, 17 Norma Street, Sonheuwel 1, NELSPRUIT 1200, SOUTH AFRICA, South Africa ~72: VAN EIJK, Mattheus Casparus Rene~

2021/03622 ~ Complete ~54:CRACK PREFABRICATION DEVICE AND CRACK MAKING METHOD ~71:Anhui University of Science and Technology, No.168 Taifeng Street,, People's Republic of China ~72: CHANG, Yumeng;DU, Xiaoyan;JIANG, Haifeng;PANG, Dongdong;WANG, Xiaomei;WEI, Kai;ZHANG, Yi~

2021/03607 ~ Provisional ~54:A SENSING DEVICE ~71:NEL, Leroy, Gareth, 35 GREENVALE VILLAGE, 36 SHONGWENI ROAD, HILLDENE, HILLCREST, 3610, KWAZULU NATAL, South Africa ~72: NEL, Leroy, Gareth~

2021/03613 ~ Complete ~54:AN EXPERIMENTAL PLATFORM FOR ACCURATE SIMULATION OF FLYING GANGUE DISASTER OF THE STEEPLY INCLINED COAL SEAM AND AN APPLICATION METHOD ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Ke YANG;Tong ZHANG;Xiaolou CHI;Xin LV;Zhen WEI~

2021/03625 ~ Complete ~54:AGRICULTURAL SPRAYING SYSTEM ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: STOLLER, Jason;STUBER, Luke~ 33:US ~31:62/812,617 ~32:01/03/2019;33:US ~31:62/820,481 ~32:19/03/2019

2021/03641 ~ Complete ~54:NEW CRYSTALLINE FORMS OF A MCL-1 INHIBITOR, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM. ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES CEDEX 92284, FRANCE, France;Vernalis (R&D) Limited, Granta Park, CAMBRIDGE CB21 6GB, UNITED KINGDOM, United Kingdom ~72: AUVRAY, Julien;DE BAETS, Emilie;LEBLANC, Nicolas;LYNCH, Michael~ 33:EP ~31:18306634.9 ~32:06/12/2018

2021/03632 ~ Complete ~54:A CONTINUOUS FREEZE DRYER, HOPPER AND METHOD OF FREEZE-DRYING ~71:FREEZE DRIED FOODS NEW ZEALAND LIMITED, 3-5 Meihana Pl, Hastings, New Zealand ~72: ALASTAIR JAMES WOODBURN GASS;AUSTEN FRANK CHITTOCK;BRIAN DONALD EDWARDS~ 33:NZ ~31:747776 ~32:29/10/2018

2021/03650 ~ Complete ~54:RNAI AGENTS FOR INHIBITING EXPRESSION OF HIF-2 ALPHA (EPAS1), COMPOSITIONS THEREOF, AND METHODS OF USE ~71:Arrowhead Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of America ~72: ALTENHOFER, Erich;CARLSON, Jeffrey;CHEN, Bo;FOWLER-WATTERS, Matthew;LI, Xiaokai;LI, Zhen;NICHOLAS, Anthony;SHU, Dongxu;WONG, So;ZHU, Rui~ 33:US ~31:62/790,360 ~32:09/01/2019;33:US ~31:62/827,564 ~32:01/04/2019;33:US ~31:62/839,381 ~32:26/04/2019

2021/03644 ~ Complete ~54:MULTIVALENT GLYCOCONJUGATES IMMUNOGENIC COMPOSITIONS ~71:Bharat Biotech International Limited, Genome Valley, Turkapally, Shameerpet, HYDERABAD 500078, INDIA,

India ~72: ELLA, Krishna Murthy;NAIDU, Mandalapu Gangadhara;RAMASAMY, Venkatesan~ 33:IN
~31:201841017672 ~32:10/11/2018

2021/03615 ~ Complete ~54:AN ALERTING DEVICE MONITORING DEFORMATION OF RING MAGLEV
ROADWAY ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui
Province, 232001, People's Republic of China ~72: Ke YANG;Qiang FU;Wenjie LIU;Xiang YU;Xiaolou CHI;Xin
LV;Zhen WEI~

2021/03623 ~ Complete ~54:MODULAR SYSTEM FOR INVENTORY AND TRANSPORT EFFICIENCY OF
PACKAGING ~71:CR PACKAGING LLC, 580 Washington Street, Unit 202, United States of America ~72:
ELWELL, Robert;GONZALEZ, Alexander;GRANGER, Colin;KNOBEL, Simon;MARKOWITZ, Ari;PINTO,
Christopher~ 33:US ~31:62/492,678 ~32:01/05/2017;33:ZA ~31:2019/07284 ~32:01/11/2019

2021/03627 ~ Complete ~54:NATURAL SOLUTION LANGUAGE ~71:BRANE COGNITIVES PTE. LTD., 1 Raffles
Place, Tower 2, Singapore ~72: BYRRAJU, Ramalinga Raju~ 33:IN ~31:201941001135 ~32:10/01/2019;33:IN
~31:201941028675 ~32:16/07/2019

2021/03637 ~ Complete ~54:HYDROFORMYLATION PROCESS ~71:DOW TECHNOLOGY INVESTMENTS
LLC, 2020 Dow Center Midland, United States of America ~72: BRAMMER, Michael A.;GILES, Jason F.;MILLER,
Glenn A.~ 33:US ~31:62/772,681 ~32:29/11/2018

2021/03645 ~ Complete ~54:PROCESS FOR PREPARATION OF ANTHRANILAMIDES ~71:UPL LTD,
Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA, India ~72: DESAI,
Jigar Kantilal;PANCHAL, Digish Manubhai;SHROFF, Jaidev Rajnikant;SHROFF, Vikram Rajnikant~ 33:IN
~31:201831048884 ~32:24/12/2018

2021/03608 ~ Provisional ~54:A VEHICLE ~71:RAWLINSON, Rodney Ian, 720B Iberius Road, Moreleta Park,
Johannesburg, Gauteng, 0181, South Africa ~72: RAWLINSON, Rodney Ian~

2021/03620 ~ Complete ~54:MODIFIED LIGAND-GATED ION CHANNELS AND METHODS OF USE
~71:HOWARD HUGHES MEDICAL INSTITUTE, 4000 Jones Bridge Road, Chevy Chase, Maryland, 20815-6789,
United States of America ~72: CHRISTOPHER MAGNUS;PETER LEE;SCOTT STERNSON~ 33:US
~31:62/584,428 ~32:10/11/2017;33:US ~31:62/729,716 ~32:11/09/2018

2021/03626 ~ Complete ~54:IMPROVEMENTS RELATING TO FUEL ECONOMY ~71:SHELL
INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands
~72: SMITH, Alastair, Graham~ 33:EP ~31:19154165.5 ~32:29/01/2019

2021/03649 ~ Complete ~54:FILAMENTOUS NANOPARTICLES HAVING VACCINE ADJUVANT EFFECT
~71:Croda International Plc, Cowick Hall, Snaith, GOOLE DN14 9AA, EAST YORKSHIRE, UNITED KINGDOM,
United Kingdom ~72: DUROUX, Laurent;HU, Kefei;LINDBLAD, Erik~ 33:EP ~31:18213540.0 ~32:18/12/2018

2021/03648 ~ Complete ~54:PRESCRIPTION OF REMOTE PATIENT MANAGEMENT BASED ON
BIOMARKERS ~71:B.R.A.H.M.S GmbH, Neuendorfstraße 25, HENNIGSDORF 16761, GERMANY,
Germany ~72: GEHRIG, Stefan;KÖHLER, Friedrich;KUNDE, Jan;STUBBE, Tobias;WIEMER, Jan~ 33:EP
~31:19166382.2 ~32:29/03/2019;33:EP ~31:19166425.9 ~32:29/03/2019;33:EP ~31:19175720.2
~32:21/05/2019

2021/03621 ~ Complete ~54:ROOF RAINWATER SOURCE CONTROL DEVICE BASED ON SPONGE CITY
CONCEPT AND OPERATING METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 168
TAIFENG STREET, People's Republic of China;HOHAI UNIVERSITY, NO. 1 XIKANG ROAD, People's Republic

of China ~72: CHEN, QINGQING;DAI, HUICHAO;DAI, YU;DONG, ZENGCHUAN;JIANG, HONGLING;LI, GUOFANG;LIU, BO;MAO, JINQIAO;RONG, GUIWEN;WU, HAO;YUAN, YUE;ZHENG, TIEGANG~

2021/03634 ~ Complete ~54:USE OF AN EGG GRAFTED WITH TUMOR CELLS IN ORDER TO STUDY THE ANTI-CANCER EFFECTIVENESS OF IMMUNE THERAPIES IN THE ABSENCE OF IMMUNE EFFECTOR CELLS OTHER THAN THOSE IN THE GRAFTED EGG ~71:INOVATION, Biopolis 5 Avenue du Grand Sablon, 38700, La Tronche, France ~72: EMILIE DOSDA;JEAN VIALLET;XAVIER ROUSSET~ 33:FR ~31:1860000 ~32:29/10/2018

2021/03638 ~ Complete ~54:ANTIFUNGAL COMPOUND, AND SYNTHESIS METHOD AND USE THEREOF ~71:WUXI NO.2 PEOPLE'S HOSPITAL, No. 68, Zhongshan Road, Liangxi District,, People's Republic of China ~72: PEI, Zejun;SUN, Xin~ 33:CN ~31:202010405895.2 ~32:14/05/2020

2021/03643 ~ Complete ~54:ANTIBODY THAT BINDS TO VEGF AND IL-1BETA AND METHODS OF USE ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BECKMANN, Roland;BENZ, Joerg;DENGL, Stefan;GASSNER, Christian;HARTMANN, Guido;HUELSMANN, Peter Michael;IMHOF-JUNG, Sabine;JENSEN, Kristian Hobolt;KETTENBERGER, Hubert;LORENZ, Stefan;MOELLEKEN, Joerg;MUNDIGL, Olaf~ 33:EP ~31:18215023.5 ~32:21/12/2018

2021/03651 ~ Complete ~54:SYSTEMS AND METHODS FOR MEASURING FORCES IN EARTH MOVING MACHINERY AND CONTROL THEREOF, AND AUTOMATIC OR SEMI-AUTOMATIC MACHINERY ~71:Metalogenia Research & Technologies S.L., Carrer d''Àvila, 45, BARCELONA 08005, SPAIN, Spain ~72: ALONSO FRIGOLA, Ester;GIMENO TORDERA, Albert;MARQUEZ LLINAS, Jordi;TRIGINER BOIXEDA, Jorge;TRIGINER CASTAÑÉ, Javier;VALLVÉ BERTRAN, Nil~ 33:EP ~31:18382913.4 ~32:12/12/2018

2021/03612 ~ Provisional ~54:RESPIRATORY FACE MASK ~71:ROBERT GIBSON, 1 Campbell Drive, 303 Nahanda, South Africa ~72: GIBSON, Robert~

2021/03647 ~ Complete ~54:ARRANGEMENT IN UNDERGROUND MINING MACHINE, AND METHOD ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: AHO, Heikki;HAIKIO, Sami~ 33:EP ~31:18209979.6 ~32:04/12/2018

2021/03614 ~ Complete ~54:A GASIFIER THAT GENERATES POWER FROM COAL AND COAL GANGUE IN THE UNDERGROUND MINE AND A GASIFYING METHOD THEREOF ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Juejing FANG;Ke YANG;Qiang FU;Wenjie LIU;Xin LV;Yu WANG;Zhainan ZHANG~

2021/03631 ~ Complete ~54:CUTTER HEAD ARRANGEMENT ~71:MASTER SINKERS (PTY) LTD, 4 Bosman Street, FOCHVILLE, 2515, Gauteng, SOUTH AFRICA, South Africa ~72: GOODWIN, Nicolaas Bodenstein;JORDAAN, Barend Jacobus~ 33:ZA ~31:2018/08367 ~32:12/12/2018

2021/03609 ~ Provisional ~54:A LIGHT FITTING ~71:HORLACHER, Otto, 169 Bush Telegraph road, Northlands Business Park, North Riding, South Africa;INTEGRATED POOL PRODUCTS (PTY) LTD, 70 Driefontein, Muldersdrift, South Africa ~72: HORLACHER, Otto~

2021/03619 ~ Complete ~54:TEA DRINKING CAPSULE AVAILABLE FOR TEA DRINKING MACHINE ~71:SHAOXING KANGKE CAPSULE CO., LTD, Zhejiang Xinchang Provincial High-Tech Industrial Park, 3, People's Republic of China ~72: WANG, Mengjun;YU, Dong;YU, Sanyu;YU, Xuewen;YU, Yu~

2021/03629 ~ Complete ~54:METHODS AND SYSTEM FOR ASSOCIATING BETWEEN DISCHARGE OF CHEMICALS, AND CORRESPONDING GENETIC, MEDICAL AND/OR PATHOLOGICAL CONDITIONS ~71:VOCLARITY HEALTH, LLC, 111 PERIWINKLE LANE, DELRAY BEACH, FLORIDA 33444, USA, United States of America ~72: CANTOR, Ehud;HERSHTIK, Harel;MORRIS, Drew~ 33:IL ~31:262771 ~32:04/11/2018;33:US ~31:62/772,645 ~32:29/11/2018;33:US ~31:62/929,882 ~32:03/11/2019

2021/03633 ~ Complete ~54:METHOD OF MANUFACTURING A BRAZING SHEET PRODUCT ~71:ALERIS ROLLED PRODUCTS GERMANY GMBH, Carl-Spaeter-Stra#223;e 10, 56070, Koblenz, Germany ~72: BERND JACOBY;STEVEN KIRKHAM~ 33:EP ~31:19154779.3 ~32:31/01/2019

2021/03640 ~ Complete ~54:MECHANICAL PRODUCT FORMING AND PROOFING 3D PRINTER ~71:NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY, 21 Bohai Road, Caofeidian Xincheng Tangshan, People's Republic of China ~72: LIU, Naijiang;PEI, Weichi;SU, Liye;WANG, Lu;ZHANG, Xintao~ 33:CN ~31:201910968154.2 ~32:12/10/2019

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2021/03668 ~ Complete ~54:GDF15 FUSION PROTEINS AND USES THEREOF ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: ARMSTRONG, Anthony;CHAVEZ, Jose Antonio;CONNOR, Judith Ann;FURMAN, Jennifer;HUANG, Chichi;HUNTER, Michael J.;LIN-SCHMIDT, Xiefan;MULLICAN, Shannon;NELSON, Serena;RANGWALA, Shamina~ 33:US ~31:62/333,886 ~32:10/05/2016

2021/03693 ~ Complete ~54:ARRANGEMENT AND METHOD FOR DEGASSING A PUMP ~71:Andritz Oy, Tammasaarekatu 1, HELSINKI 00180, FINLAND, Finland ~72: GEIGER, Ronny;PELTONEN, Kari~ 33:FI ~31:20186026 ~32:30/11/2018

2021/03655 ~ Provisional ~54:MODIFIED SPHERICAL SEAT FOR A ROCK BOLT ASSEMBLY ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: KNOX, Greig~

2021/03685 ~ Complete ~54:SYSTEM AND METHOD FOR DISPENSING A MIXTURE OF A LIQUID AND AN ADDITIVE AND CARTRIDGE FOR USE THEREIN ~71:DISPENSING TECHNOLOGIES B.V., Achtseweg Zuid 151 B, 5651 GW, Eindhoven, Netherlands ~72: DENNIS VAN MELICK;DOMINICUS JAN VAN WIJK;PAULO NERVO~ 33:NL ~31:2022072 ~32:26/11/2018

2021/03656 ~ Provisional ~54:LIGHT FORMWORK SYSTEM ~71:NES Consult & Associates (Pty) Ltd, 7 Bosonia Street Kuilsriver, South Africa ~72: OOSTHUIZEN, Dirk Marais~

2021/03652 ~ Provisional ~54:AUTO DEALERS STOREFRONT IN AN ONLINE MARKET PLACE ~71:Joseph Tolulope Daniels, 210 midriver estate, oranjerivier drive, South Africa ~72: Joseph Tolulope Daniels~

2021/03659 ~ Provisional ~54:A MOUNTING ARRANGEMENT ~71:STRYDOM, Gavin, Stand 1166, Eagle Canyon Golf Estate, Blueberry Road, Honeydew, South Africa ~72: STRYDOM, Gavin~

2021/03678 ~ Complete ~54:COLONIC DRUG DELIVERY FORMULATION ~71:TILLOTTS PHARMA AG, Baslerstrasse 15, Rheinfelden, Switzerland ~72: BRAVO GONZALEZ, Roberto Carlos;VARUM, Felipe~ 33:EP ~31:18211154.2 ~32:07/12/2018

2021/03689 ~ Complete ~54:A SEMI-RIGID SACHET FOR BEVERAGE PREPARATION ~71:Soci#233;t#233; des Produits Nestl#233; S.A., Avenue Nestl#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: TALON, Christian~ 33:EP ~31:18205141.7 ~32:08/11/2018

2021/03658 ~ Provisional ~54:CANOPY FOR A VEHICLE ~71:RHINO OUTDOOR AND OFFROAD (PTY) LTD, 5 William Hoty Street, Rosslyn, South Africa ~72: VAN DER MERWE, George FT~

2021/03665 ~ Complete ~54:SYSTEM AND METHOD FOR UTILITY BILL MANAGEMENT ~71:YM TECHNOLOGIES CC., 19714 Block O, Pupudu street, Mamelodi West, South Africa ~72: MAKGATHO, Lebogang Amos~

2021/03672 ~ Complete ~54:A HIGH-EFFICIENCY COMBINED SQUID JIGGING MACHINE ~71:SHANGHAI OCEAN UNIVERSITY, No. 999 Hucheng Ring Road, Lingang New City, Pudong New District, People's Republic of China ~72: CHEN, Xinjun;CHEN, Ziyue;LI, Qin;LIU, Kai;LU, Huajie;NING, Xin~

2021/03695 ~ Provisional ~54:INDICATIVE TEMPERATURE LABEL ~71:Degreeable (Pty) Ltd, 803 The Towers, 361 Main Road , Sea Point,, South Africa ~72: Stefanus Gideon Malherbe~

2021/03654 ~ Provisional ~54:ORE PASS SAFETY DOME ~71:GR Support and Mining, 15 Steenbok ave, 15 Steenbok ave, South Africa ~72: Etienne van eeden;Francois Joubert~

2021/03657 ~ Provisional ~54:SYSTEM AND METHOD FOR RECONCILING AND MANAGING DRY BULK INVENTORY ~71:QNUM ANALYTICS (PTY) LTD, 299 PENDORING ROAD, BLACKHEATH, South Africa ~72: MAJA, Mpho Brian~

2021/03660 ~ Complete ~54:DURABLE HANDMADE CALLIGRAPHY AND PAINTING PAPER FILLED WITH MICRO-NANO CALCIUM AND PREPARATION METHOD THEREOF ~71:Zhejiang University of Science and Technology, #318 Luhe Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China ~72: Guo Daliang;Hu Zhijun;Sha Lizheng;Tian Yulong;Xu Yinchao;Zhang Xuejin;Zhao Huifang~

2021/03674 ~ Complete ~54:ANTI-IL-36R ANTIBODIES FOR TREATMENT OF PALMOPLANTAR PUSTULOSIS ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Boehringer Ingelheim GmbH, Corporate Patents Binger Strasse 173, Germany ~72: BAUM, Patrick;LAMAR, Janine;PADULA, Steven John;THOMA, Christian~ 33:US ~31:62/785,316 ~32:27/12/2018;33:US ~31:62/815,431 ~32:08/03/2019;33:US ~31:62/891,464 ~32:26/08/2019

2021/03679 ~ Complete ~54:A BATTERY PACK AND A METHOD OF MANUFACTURING A BATTERY PACK ~71:XEROTECH LIMITED, 4 Carrowmoneash, Oranmore, Ireland ~72: FLANNERY, Barry~ 33:GB ~31:1818053.9 ~32:05/11/2018

2021/03688 ~ Complete ~54:TETRAHYDROPYRAN (THP)-SUBSTITUTED BICYCLIC-PYRIMIDINEDIONE COMPOUNDS ~71:MyoKardia, Inc., 1000 Sierra Point Parkway, BRISBANE 94005, CA, USA, United States of America ~72: GRILLO, Mark;KANE, Brian;OSLOB, Johan;THOMPSON, Fabienne;ZHONG, Min~ 33:US ~31:62/752,278 ~32:29/10/2018

2021/03673 ~ Complete ~54:CORE TUBE HANDLING DEVICE ~71:BLY IP INC., 2640 W 1700 S, United States of America ~72: KRUSE, Christof;UPMEIER, Thorsten;ZWAR, Trevor~ 33:US ~31:62/772,386 ~32:28/11/2018

2021/03684 ~ Complete ~54:NOVEL IMIDAZOLE DERIVATIVE ~71:TAISHO PHARMACEUTICAL CO., LTD., 24-1, Takada 3-chome, Toshima-ku, Tokyo, 1708633, Japan ~72: FUMIHITO USHIYAMA;HAJIME TAKASHIMA;KAORI UEKI;NAOKI SASAMOTO;NOZOMI TANAKA;RISA TSURUTA;YOHEI MATSUDA;YUYA OGATA~ 33:JP ~31:2018-218448 ~32:21/11/2018

2021/03664 ~ Complete ~54:A COMPUTER-IMPLEMENTED METHOD FOR SECURELY ENROLLING A USER WITH A SERVICE VIA A MESSAGING APPLICATION ~71:OneVault Africa, c/o Griffin Solutions Ltd, C2-401, 4th Floor, Office Block C, Grand Baie La Croisette, Mauritius ~72: DICKSON, Vanda Mead~

2021/03676 ~ Complete ~54:DELAYED RELEASE DRUG FORMULATION COMPRISING AN OUTERLAYER WITH AN ENZYMATICALLY DEGRADABLE POLYMER, ITS COMPOSITION AND ITS METHOD OF MANUFACTURING ~71:TILLOTTS PHARMA AG, Baslerstrasse 15, Rheinfelden, Switzerland ~72: BRAVO GONZALEZ, Roberto Carlos;FÜLLER, Carsten, Markus;VARUM, Felipe;VON ROCHOW, Laetitia~ 33:EP ~31:18211152.6 ~32:07/12/2018

2021/03675 ~ Complete ~54:METHOD FOR ANALYZING A BLOOD SAMPLE FROM A HUMAN FOR A TUBERCULOSIS DISEASE BY DETECTION OF TB ANTIGEN-STIMULATED CD154 EXPRESSION IN COMBINATION WITH CD38, KI-67 OR HLA-DR ~71:LABOR BERLIN - CHARITÉ VIVANTES SERVICES GMBH, Sylter Str. 2, Berlin, Germany ~72: BACHER, Petra;MANTEI, Andrej;MEISEL, Christian;MEYER, Tim;SCHEFFOLD, Alexander;VOLK, Hans-Dieter~ 33:DE ~31:10 2018 131 696.8 ~32:11/12/2018

2021/03667 ~ Complete ~54:COMBINATIONS AND METHODS COMPRISING A CAPSID ASSEMBLY INHIBITOR ~71:Janssen Sciences Ireland UC, Eastgate Village, Eastgate, LITTLE ISLAND, CO CORK, IRELAND, Ireland;Novira Therapeutics, Inc., 3805 Old Easton Road, DOYLESTOWN 18902, PA, USA, United States of America ~72: BERKE, Jan Martin;FLORES, Osvaldo;HARTMAN, George;KLUMPP, Klaus;LAM, Man lu~ 33:US ~31:62/323,251 ~32:15/04/2016;33:US ~31:62/421,035 ~32:11/11/2016

2021/03670 ~ Complete ~54:A CONTAINER SEA-RAILWAY COMBINED TRANSPORT SYSTEM BASED ON UNDERGROUND CHANNEL ~71:Shanghai Maritime University, No. 1550, Harbour Rd., Pudong District, Shanghai, People's Republic of China ~72: Chang Daofang;Gao Yinping;Hu Xiaoyuan;Liang Chengji;Lu Houjun;Pan Yang;Wang Yu;Zhang Yue~ 33:CN ~31:202010478525 .1 ~32:29/05/2020

2021/03681 ~ Complete ~54:HOT ROLLED AND STEEL AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Laura MOLI SANCHEZ;Lode DUPREZ;Nele VAN STEENBERGE;Tom WATERSCHOOT~

2021/03662 ~ Complete ~54:METHOD AND SYSTEM FOR GENERATING AND MANAGING TASKS ~71:VANTAGE INFORMATION SERVICES LIMITED, 190 Strand, Temple, United Kingdom ~72: KOGEL, John~ 33:ZA ~31:2020/03166 ~32:28/05/2020

2021/03663 ~ Complete ~54:MULTICONFIGURATION DEVICE ~71:KNERSUS (PTY) LIMITED, 24 Genr Ben Viljoenstraat, Welgemoed, South Africa ~72: VAN VUUREN, Lukas, Daniel~

2021/03666 ~ Complete ~54:METHOD FOR RECOVERING VALUABLES ~71:A&H JAPAN CORPORATION, 2-152, Nishijima 1-chome, Nishiyodogawa-ku, Osaka-shi, Osaka, 555-0042, Japan ~72: KENJI WATANABE;MASAHARU TAKEDA;TOMOHIRO ARAI;TOSHIHIKO HIEDA;YOSHIYASU KIKUCHI~ 33:JP ~31:2020-100885 ~32:10/06/2020

2021/03671 ~ Complete ~54:A DEVICE FOR TRAPPING A SQUID IN AN OCEAN ~71:SHANGHAI OCEAN UNIVERSITY, No. 999 Hucheng Ring Road, Lingang New City, Pudong New District, People's Republic of China ~72: CHEN, Xinjun;CHEN, Ziyue;LI, Qin;LIU, Kai;LU, Huajie;NING, Xin~

2021/03682 ~ Complete ~54:A METHOD AND SYSTEM FOR SAMPLE CLASSIFICATION ~71:TECHNOLOGICAL RESOURCES PTY. LIMITED, Level 7, 360 Collins Street, Melbourne, Victoria, 3000, Australia;THE UNIVERSITY OF WESTERN AUSTRALIA, 35 Stirling Highway, Crawley, Western Australia, 6009, Australia ~72: ANDREW MCMICKAN;DANIEL WEDGE;EUN-JUNG HOLDEN;OWEN HARTLEY;THOMAS GREEN~ 33:AU ~31:2018904128 ~32:31/10/2018

2021/03686 ~ Complete ~54:GAS-FILLED RESILIENT BODY AND USE THEREOF ~71:DISPENSING TECHNOLOGIES B.V., Achtseweg Zuid 151 B, 5651 GW, Eindhoven, Netherlands ~72: DENNIS VAN MELICK;DOMINICUS JAN VAN WIJK;PAULO NERVO~ 33:NL ~31:2022072 ~32:26/11/2018

2021/03691 ~ Complete ~54:SYSTEMS AND METHODS FOR FACILITATING CLONE SELECTION ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: LE, Kim H.;MILNE, Graham F.;TAN, Glenn;WANG, Tony Y.;YUAN, Yu~ 33:US ~31:62/774,154 ~32:30/11/2018

2021/03694 ~ Complete ~54:ELECTROSTATIC SPRAY DRYING NOZZLE ASSEMBLY ~71:Spraying Systems Co., P.O. Box 7900, WHEATON 60187-7901, IL, USA, United States of America ~72: ACKERMAN, Thomas;HUFFMAN, Dave;WEE SIT, Lyndon;WEINSTEIN, Donald~ 33:US ~31:62/773,875 ~32:30/11/2018

2021/03661 ~ Complete ~54:GROUTING PERFORMANCE TEST METHOD AND DEVICE FOR REALLY CRACKED ROCK SPECIMEN ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168 Taifeng Street, People's Republic of China ~72: FU, Qiang;LIU, Qinjie;WU, Benniu;YANG, Ke~

2021/03669 ~ Complete ~54:RNAI AGENTS AND COMPOSITIONS FOR INHIBITING EXPRESSION OF ANGIOPOIETIN-LIKE 3 (ANGPTL3), AND METHODS OF USE ~71:Arrowhead Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of America ~72: LI, Zhen;WONG, So;ZHU, Rui~ 33:US ~31:62/558,819 ~32:14/09/2017;33:US ~31:62/583,919 ~32:09/11/2017;33:US ~31:62/651,284 ~32:02/04/2018;33:US ~31:62/694,976 ~32:07/07/2018

2021/03690 ~ Complete ~54:METHOD AND APPARATUS FOR TREATING TENSION PNEUMOTHORAX USING A RAPID DEPLOYMENT CHEST PORT ~71:Quick Tube Medical, LLC, 5923 Kingston Pike, Suite 316, KNOXVILLE 37919, TN, USA, United States of America ~72: LUTTRELL, Ryan;SMITH, Allen Carmichael;SMITH, Byron;SPRINGS, Christen~ 33:US ~31:62/773,765 ~32:30/11/2018

2021/03677 ~ Complete ~54:INSULIN CONJUGATES ~71:SANOFI, 54 rue La Boétie, France ~72: BESENIUS, Melissa;BIALY, Laurent;BOEHME, Thomas;GUESSREGEN, Stefan;KORN, Marcus, Hermann;MENDEZ-PEREZ, Maria;RACKELMANN, Nils;RIEDEL, Jens;VILLAR GAREA, Ana;;WERNER, Ulrich;WILL, Martin~ 33:EP ~31:18306657.0 ~32:11/12/2018;33:EP ~31:18306658.8 ~32:11/12/2018;33:EP ~31:18306659.6 ~32:11/12/2018

2021/03680 ~ Complete ~54:DEMAGNETIZATION AND SIGNATURE MEASUREMENT SYSTEM ~71:STL SYSTEMS AG, Hauptstrasse 137E, Switzerland ~72: Adrianus J. STEINFORT;Christoph LUDWIG;Sezgin KAMA;Stefan LUDWIG;Wolfgang LUDWIG~

2021/03683 ~ Complete ~54:SUBSTITUTED ARYLMETHYLUREAS AND HETEROARYLMETHYLUREAS, ANALOGUES THEREOF, AND METHODS USING SAME ~71:ARBUTUS BIOPHARMA CORPORATION, 100-8900 Glenlyon Parkway, Burnaby, British Columbia, V5J 5J8, Canada ~72: ANDREW G COLE;EUGEN MESAROS;STEVEN KULTGEN;YI FAN~ 33:US ~31:62/778,471 ~32:12/12/2018;33:US ~31:62/896,237 ~32:05/09/2019

2021/03687 ~ Complete ~54:OFFSHORE FARMING SYSTEM ~71:MBS International AS, c/o H&M;vard Wollan, Dokkgata 6B, TRONDHEIM 7042, NORWAY, Norway ~72: ØSTERHUS, Stein Wold;FOSSHODE, John Arnold;MIKKELSEN, Ragnar Thor;REPPE, Svein;WOLLAN, H&M;vard~ 33:NO ~31:20181401 ~32:01/11/2018

2021/03692 ~ Complete ~54:NOVEL CRYSTAL OF (3S)-3-[2-(6-AMINO-2-FLUOROPYRIDINE-3-YL)-4-FLUORO-1H-IMIDAZOLE-5-YL]-7-[5-CHLORO-2-(1H-TETRAZOLE-1-YL)PHENYL]-2,3-DIHYDROINDOLIZINE-5(1H)-ONE ~71:Ono Pharmaceutical Co., Ltd., 1-5, Doshomachi 2-chome, Chuo-ku, OSAKA-SHI 5418526,

OSAKA, JAPAN, Japan ~72: FUJITO, Takayuki;OHTANI, Shuhei;ONO, Shizuka~ 33:JP ~31:2018-224434
~32:30/11/2018

- APPLIED ON 5/31/2021 -

2021/03708 ~ Complete ~54:USE OF LENTIVIRAL VECTORS EXPRESSING FACTOR IX ~71:BIOVERATIV
THERAPEUTICS INC., 225 Second Avenue, Waltham, Massachusetts, United States of America ~72:
CANTORE, Alessio;DRAGER, Douglas;LIU, Tongyao;NALDINI, Luigi;PATARROYO-WHITE, Susannah~ 33:US
~31:62/776,393 ~32:06/12/2018

2021/03736 ~ Complete ~54:CSF1R INHIBITORS FOR USE IN TREATING CANCER ~71:Deciphera
Pharmaceuticals, LLC, 200 Smith Street, WALTHAM 02451, MA, USA, United States of America ~72: FLYNN,
Daniel L.;KUIDA, Keisuke;SMITH, Bryan D.;SOTO, Rodrigo Ruiz~ 33:US ~31:62/786,105 ~32:28/12/2018;33:US
~31:62/926,341 ~32:25/10/2019;33:US ~31:62/933,830 ~32:11/11/2019

2021/03737 ~ Complete ~54:MODIFIED AMINE LIPIDS ~71:Intellia Therapeutics, Inc., 40 Erie Street,
CAMBRIDGE 02139, MA, USA, United States of America ~72: MAETANI, Micah;MAJZOUB, Ramsey;SCULLY,
Stephen S.~ 33:US ~31:62/775,783 ~32:05/12/2018

2021/03697 ~ Provisional ~54:STANCE ALIGNMENT DEVICE ~71:CHRISTOFFEL JOHANNES HENZE DE
WET, 10 Casten road, Groenvlei, South Africa ~72: CHRISTOFFEL JOHANNES HENZE DE WET~

2021/03707 ~ Complete ~54:PROCESS SYSTEM AND CONSTRUCTION METHOD OF SOLID FILLING ALONG
FILLING AND RETAINING ROADWAY ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168,
Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Ke YANG;Lichao
CHENG;Xiang HE;Xin LV;Xinwang LI;Xinyuan ZHAO;Yiling QIN;Zhen WEI~

2021/03728 ~ Complete ~54:RNAI CONSTRUCTS FOR INHIBITING PNPLA3 EXPRESSION ~71:Amgen Inc.,
One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: HOMANN,
Oliver;MURRAY, Justin K.;OLLMANN, Michael;RULIFSON, Ingrid~ 33:US ~31:62/777,714 ~32:10/12/2018

2021/03701 ~ Provisional ~54:SUBSTATION OPERATION ~71:MARCUS, Dean Shane, 65 Serenade Road,
Elandsfontein, South Africa;MARCUS, Stanley, 65 Serenade Road, Elandsfontein, South Africa ~72: MARCUS,
Dean Shane;MARCUS, Stanley~

2021/03703 ~ Complete ~54:A CLEANING DEVICE ~71:JANSE VAN RENSBURG, Andre, 69 WILLOW ROAD,
SWACINA PARK, PRETORIA, 0030, SOUTH AFRICA, South Africa;VAN DEN HEEVER VENTER, Barend,
Gerhardus, 10 MT SENTINEL STREET, MIDLANDS ESTATE, 1692, SOUTH AFRICA, South Africa ~72: JANSE
VAN RENSBURG, Andre;VAN DEN HEEVER VENTER, Barend, Gerhardus~ 33:ZA ~31:2020/04837
~32:05/08/2020

2021/03732 ~ Complete ~54:INSECT CONTROL AGENTS ~71:The United States of America, as represented by
the Secretary of Agriculture, 1400 Independence Avenue, SW, WASHINGTON, D.C. 20250, USA, United States
of America;The University Court of the University of Glasgow, Gilbert Scott Building, University Avenue,
GLASGOW G12 8QQ, STRATHCLYDE, UNITED KINGDOM, United Kingdom ~72: ALFORD, Lucy;DAVIES,
Shireen A.;DOW, Julian A. T.;NACHMAN, Ronald J.~ 33:US ~31:62/774,546 ~32:03/12/2018

2021/03714 ~ Complete ~54:DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF
SAID PANELS ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCKÉ, Eddy Alberic~
33:NL ~31:2022114 ~32:03/12/2018

2021/03715 ~ Complete ~54:METHOD AND ASSEMBLING SYSTEM FOR INSERTING AT LEAST ONE NUCLEAR FUEL ROD INTO SPACER GRIDS OF A NUCLEAR FUEL ASSEMBLY ~71:FRAMATOME, 1 place Jean Millier, Tour Areva, France ~72: OSSEFORTH, Ewald~ 33:EP ~31:18306696.8 ~32:14/12/2018

2021/03721 ~ Complete ~54:HERBICIDE ~71:UPL Limited, UPL House, 610 B/2, Bandra Village Off western express highway, BANDRA EAST 400 051, MUMBAI, INDIA, India ~72: HELLER, Jean-Jacques;POLLET, Jean-Philippe;REYER, William;SHROFF, Jaidev Rajnikant;SHROFF, Vikram Rajnikant~

2021/03739 ~ Complete ~54:APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING, DECODING, SCENE PROCESSING AND OTHER PROCEDURES RELATED TO DIRAC BASED SPATIAL AUDIO CODING USING DIRECT COMPONENT COMPENSATION ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BAYER, Stefan;BOUTHÉON, Alexandre;DÖHLA, Stefan;EICHENSEER, Andrea;FUCHS, Guillaume;KÜCH, Fabian;KORSE, Srikanth;MULTRUS, Markus;THIERGART, Oliver~ 33:EP ~31:18211064.3 ~32:07/12/2018

2021/03743 ~ Complete ~54:A BEVERAGE CUP AND CLOSURE THEREFOR ~71:KEEPCUP PTY LTD, 63-69 Noone Street, Clifton Hill, Australia ~72: BEDNARZ, Kate;FORSYTH, Abigail;KRIGSMAN, Marcus;MARSHALL, Graeme;WINDAHL, Lorrin~ 33:AU ~31:2019901749 ~32:22/05/2019

2021/03711 ~ Complete ~54:TRIGGERING A PROXIMITY-BASED DIGITAL ACTION WITH A MOBILE DEVICE AND A BASE DEVICE ~71:CRUNCHFISH PROXIMITY AB, c/o Crunchfish AB, Stora Varvsgatan 6 A, 4 tr, Sweden ~72: SYLWANDER, Kristian~ 33:SE ~31:1851458-8 ~32:26/11/2018;33:SE ~31:1950334-1 ~32:19/03/2019

2021/03713 ~ Complete ~54:MOBILITY PROCEDURE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: DA SILVA, Icaro L. J.;EKLÖF, Cecilia;RAMACHANDRA, Pradeepa~ 33:US ~31:62/754,153 ~32:01/11/2018

2021/03734 ~ Complete ~54:METHOD FOR CONTROLLING INTEGRATED RENEWABLE ELECTRIC GENERATION RESOURCE AND CHARGE STORAGE SYSTEM PROVIDING DESIRED CAPACITY FACTOR ~71:8me NOVA, LLC, 4370 Town Center Blvd., Suite 110, EL DORADO HILLS 95762, CA, USA, United States of America ~72: AKYOL, Bora;CARPENTER, Brandon;GARNEAU-HALLIDAY, Philippe;HANSEN, Lukas;MONDAL, Rahul;RAMESH, Gautham~ 33:US ~31:63/020,009 ~32:04/05/2020;33:US ~31:17/120,019 ~32:11/12/2020

2021/03832 ~ Provisional ~54:THE MATRIX PNEUMATIC ELECTRICITY GENERATION SYSTEM ~71:Keabetswe Gideon Sehlako, 311 Block LL, South Africa ~72: Keabetswe Gideon Sehlako~

2021/03700 ~ Provisional ~54:ENCLOSURE ELECTRONIC LOCK ~71:MARCUS, Dean Shane, 65 Serenade Road, Elandsfontein, South Africa;MARCUS, Stanley, 65 Serenade Road, Elandsfontein, South Africa ~72: MARCUS, Dean Shane,;MARCUS, Stanley~

2021/03704 ~ Complete ~54:SYSTEM AND METHOD FOR MONITORING AGRICULTURAL HARVESTING CONTAINERS ~71:REID AND VERWEY CC, 13 Porter Street, South Africa ~72: REID, James Michael Cedric~ 33:ZA ~31:2019/06528 ~32:04/04/2020

2021/03717 ~ Complete ~54:BISPECIFIC ANTIBODY AND USE THEREOF ~71:SHANDONG NEW TIME PHARMACEUTICAL CO., LTD., No. 1, North Outer Ring Road, Feixian County, Shandong, 273400, People's Republic of China ~72: BIN LI;GUIMIN ZHANG;LILI ZHAO;QIANG LI;SHIXIANG JIA;XINGXIA HU;XINLU MA;YUAN YAN;YUHUA ZHANG;ZHENYU LI;ZHONG LIU~ 33:CN ~31:201811294887.4 ~32:01/11/2018

2021/03723 ~ Complete ~54:METHOD AND INSTALLATION FOR RELEASING GAS FROM A LIQUID MEDIUM
~71:Hydrogenious Lohc Technologies GmbH, Weidenweg 13, ERLANGEN 91058, GERMANY, Germany ~72:
BÖSMANN, Andreas;MRUSEK, Stephan;PREUSTER, Patrick;WASSERSCHIED, Peter~ 33:DE ~31:10
2018 221 447.6 ~32:11/12/2018

2021/03731 ~ Complete ~54:PROCESS FOR MANUFACTURING FULLY RECYCLABLE MINING SCREENS
~71:Covestro LLC, 1 Covestro Circle, PITTSBURGH 15205 , PA, USA, United States of America ~72: LORENZO,
Michael;RODRIGUES, Jean Paul~ 33:US ~31:62/781,650 ~32:19/12/2018

2021/03702 ~ Provisional ~54:YIELDING HOOKS 21-05-31 ~71:Mining Product Developments (Pty)Ltd, 10
Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/03716 ~ Complete ~54:METHODS, APPARATUS AND DEVICE-READABLE MEDIUMS FOR
SCHEDULING TRANSMISSIONS IN A WIRELESS NETWORK ~71:TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL), 164 83, Sweden ~72: BUTT, Naveed;HIERTZ, Guido Roland;WILHELMSSON, Leif~

2021/03733 ~ Complete ~54:SYSTEMS AND METHODS UTILIZING AC OVERBUILT RENEWABLE ELECTRIC
GENERATION RESOURCE AND CHARGE STORAGE DEVICE PROVIDING DESIRED CAPACITY FACTOR
~71:8me NOVA, LLC, 4370 Town Center Blvd., Suite 110, EL DORADO HILLS 95762, CA, USA, United States of
America ~72: ARNOLD, Emily;BUTTGENBACH, Thomas;GARNEAU-HALLIDAY, Philippe;HANSEN, Lukas~
33:US ~31:63/020,009 ~32:04/05/2020;33:US ~31:17/120,006 ~32:11/12/2020

2021/03720 ~ Complete ~54:MODIFIED GIP PEPTIDE ANALOGUES ~71:ANTAG THERAPEUTICS APS, Ole
Maaløes Vej 3, Denmark ~72: RIBER, Ditte;ROSENKILDE, Mette Marie;SIVERTSEN, Bjørn
Behrens;SPARRE-ULRICH, Alexander Hovard~ 33:EP ~31:18209896.2 ~32:03/12/2018;33:EP
~31:19176739.1 ~32:27/05/2019

2021/03724 ~ Complete ~54:METHODS TO IMPROVE BEVERAGE QUALITY ~71:Roar Holding LLC, 81
Pondfield Road, D165, BRONXVILLE 10708, NY, USA, United States of America ~72: BROCIA, Robert~ 33:US
~31:62/917,188 ~32:26/11/2018

2021/03698 ~ Provisional ~54:CONVEYOR SEAL ASSEMBLY ~71:UNIQUE VENTILATION AND SUPPORT
SYSTEMS (PROPRIETARY) LIMITED, 1 Resnick Street, Factoria, 1739, South Africa ~72: JAKES VAN DER
MERWE~

2021/03706 ~ Complete ~54:DEVICE AND METHOD FOR MEASURING A TEMPERATURE OF A MOLTEN
METAL ~71:HERAEUS ELECTRO-NITE INTERNATIONAL N.V., Centrum Zuid 1105, 3530, Houthalen, Belgium
~72: CHRISTIAAN RADELET;FRANK STEVENS;GUIDO NEYENS;MARC INDEHERBERGE~ 33:EP
~31:20181481.1 ~32:22/06/2020

2021/03712 ~ Complete ~54:D-PSICOSE CRYSTAL AND PREPARATION METHOD THEREFOR ~71:CJ
CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of
Korea ~72: KIM, Seong Bo;LEE, Joo Hang;PARK, Seung Won;PARK, Young Soo~ 33:KR ~31:10-2018-
0152876 ~32:30/11/2018

2021/03729 ~ Complete ~54:METHODS OF GENETICALLY ALTERING A PLANT NIN-GENE TO BE
RESPONSIVE TO CYTOKININ ~71:Wageningen Universiteit, Department Plant Sciences, Droevendaalsesteeg
1, WAGENINGEN 6708 PB, THE NETHERLANDS, Netherlands ~72: BISSELING, Ton;GEURTS,
Rene;KULIKOVA, Olga;LIU, Jieyu;RUTTEN, Luuk~ 33:US ~31:62/776,325 ~32:06/12/2018

2021/03719 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING ANTI-191P4D12 ANTIBODY DRUG CONJUGATES AND METHODS OF USE THEREOF ~71:AGENSYS, INC., 1800 Stewart Street, Santa Monica, California, 90404, United States of America;SEAGEN INC., 21823 30th Drive SE, Bothell, Washington, 98021, United States of America ~72: GAYATHRI RATNASWAMY;MARIE ROSE VAN SCHRAVENDIJK;ORLA MCGARVEY;YINGQING SUN~ 33:US ~31:62/774,819 ~32:03/12/2018

2021/03726 ~ Complete ~54:ANGPTL3/8 FUSION POLYPEPTIDES AND METHODS OF USING THE SAME ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: CHAI, Qing;DAY, Jonathan Wesley;KONRAD, Robert John;QIAN, Yuewei;SCHROEDER, Oliver;SIEGEL, Robert William~ 33:US ~31:62/783,260 ~32:21/12/2018;33:US ~31:62/783,265 ~32:21/12/2018

2021/03741 ~ Complete ~54:APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING, DECODING, SCENE PROCESSING AND OTHER PROCEDURES RELATED TO DIRAC BASED SPATIAL AUDIO CODING USING DIFFUSE COMPENSATION ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BAYER, Stefan;BOUTHÉON, Alexandre;DÖHLA, Stefan;EICHENSEER, Andrea;FUCHS, Guillaume;KÜCH, Fabian;KORSE, Srikanth;MULTRUS, Markus;THIERGART, Oliver~ 33:EP ~31:18211064.3 ~32:07/12/2018

2021/03709 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ENHANCING BODY WEIGHT AND LEAN MUSCLE MASS USING ANTAGONISTS AGAINST LEPTIN RECEPTOR, GDF8 AND ACTIVIN A ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ALTAREJOS, Judith;GROMADA, Jesper~ 33:US ~31:62/781,226 ~32:18/12/2018

2021/03735 ~ Complete ~54:METHOD FOR IMPLEMENTING POWER DELIVERY TRANSACTION FOR POTENTIAL ELECTRICAL OUTPUT OF INTEGRATED RENEWABLE ENERGY SOURCE AND ENERGY STORAGE SYSTEM FACILITY ~71:8me NOVA, LLC, 4370 Town Center Blvd., Suite 110, EL DORADO HILLS 95762, CA, USA, United States of America ~72: ARNOLD, Emily;BUTTGENBACH, Thomas;GARNEAU-HALLIDAY, Philippe;HANSEN, Lukas;PERRIER, Julia;PERRY, Stephanie;ZANONE, Leigh~ 33:US ~31:63/020,009 ~32:04/05/2020;33:US ~31:17/120,027 ~32:11/12/2020

2021/03738 ~ Complete ~54:APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING, DECODING, SCENE PROCESSING AND OTHER PROCEDURES RELATED TO DIRAC BASED SPATIAL AUDIO CODING USING LOW-ORDER, MID-ORDER AND HIGH-ORDER COMPONENTS GENERATORS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BAYER, Stefan;BOUTHÉON, Alexandre;DÖHLA, Stefan;EICHENSEER, Andrea;FUCHS, Guillaume;KÜCH, Fabian;KORSE, Srikanth;MULTRUS, Markus;THIERGART, Oliver~ 33:EP ~31:18211064.3 ~32:07/12/2018

2021/03696 ~ Provisional ~54:A PLANTER ~71:DE WITT, Pieter Gysbertus, 16 Welsford Road, BENDOR, Polokwane 0699, Limpopo Province, SOUTH AFRICA, South Africa ~72: DE WITT, Pieter Gysbertus~

2021/03710 ~ Complete ~54:SELF-ADVANCING ENDOSCOPIC PROBE AND SYSTEM COMPRISING SAME ~71:ENDOGENE LIMITED, Suite 10, 2 St Andrews Street, Australia ~72: SWITZER, Anthony~ 33:AU ~31:2018904148 ~32:31/10/2018

2021/03727 ~ Complete ~54:ANTI-ANGPTL3/8 COMPLEX ANTIBODIES AND METHODS OF USING THE SAME ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: CHAI, Qing;DAY, Jonathan Wesley;KONRAD, Robert John;QIAN, Yuewei;SCHROEDER, Oliver;SIEGEL, Robert William~ 33:US ~31:62/783,260 ~32:21/12/2018;33:US ~31:62/783,265 ~32:21/12/2018

2021/03742 ~ Complete ~54:AUDIO PROCESSOR AND METHOD FOR GENERATING A FREQUENCY ENHANCED AUDIO SIGNAL USING PULSE PROCESSING ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: DISCH, Sascha;STURM, Michael~ 33:EP ~31:18215691.9 ~32:21/12/2018;33:EP ~31:19166643.7 ~32:01/04/2019

2021/03699 ~ Provisional ~54:MULTI PURPOSE URINAL MAT ~71:TAMP PRODUCTS CC, 64 WEBB ROAD, South Africa ~72: RONNY KUIPERS~

2021/03705 ~ Complete ~54:PORTABLE MELT ELECTROSPINNING DEVICE ~71:QINGDAO UNIVERSITY OF SCIENCE & TECHNOLOGY, No. 99, Songling Road, Laoshan District, Qingdao City, Shandong Province, 266061, People's Republic of China ~72: CHUANSHENG WANG;HAICHAO LIU;HONGBO CHEN;RANRAN JIAN;WEIMIN YANG;WENWEN HAN~

2021/03730 ~ Complete ~54:APPARATUS FOR SERVICING A STRUCTURE ~71:RotoTech Pte Ltd, 100 Pasir Panjang Road, #05-08, SINGAPORE 118518, SINGAPORE, Singapore ~72: HARTOG, Simon;KENDALL, Stuart;KLEINE, Peter;VOS, Andries;WESTERBRINK, Michael~ 33:GB ~31:1818300.4 ~32:09/11/2018

2021/03718 ~ Complete ~54:PROOF-OF-WORK FOR BLOCKCHAIN APPLICATIONS ~71:UNIVERSITY OF YORK, Heslington, York, YO10 5DD, United Kingdom ~72: IAN BANCROFT;PETER DAMIAN ASHTON;ROXANA IULIANA TEODOR;SIAMAK FAYYAZ SHAHANDASHTI~ 33:GB ~31:1820267.1 ~32:12/12/2018;33:GB ~31:1903567.4 ~32:15/03/2019

2021/03722 ~ Complete ~54:SYSTEMS AND METHODS FOR COMMUNICATING TRANSACTION INFORMATION BETWEEN ELECTRONIC DEVICES ~71:Gelliner Limited, P.O. Box 227, Clinch's House, Lord Street, DOUGLAS IM99 1RZ, ISLE OF MAN, UNITED KINGDOM, United Kingdom ~72: VILLIERS, David de;WHITE, Brett Andrew~ 33:GB ~31:1817881.4 ~32:01/11/2018

2021/03740 ~ Complete ~54:APPARATUS AND AUDIO SIGNAL PROCESSOR, FOR PROVIDING A PROCESSED AUDIO SIGNAL REPRESENTATION, AUDIO DECODER, AUDIO ENCODER, METHODS AND COMPUTER PROGRAMS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: BAYER, Stefan;FOTOPOULOU, Eleni;FUCHS, Guillaume;MABEN, Pallavi;MULTRUS, Markus;RAVELLI, Emmanuel (Deceased)~ 33:EP ~31:18204445.3 ~32:05/11/2018;33:WO ~31:PCT/EP2019/063693 ~32:27/05/2019

2021/03725 ~ Complete ~54:BISPECIFIC ANTI-CD28 X ANTI-CD22 ANTIBODIES AND USES THEREOF ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591, NY, USA, United States of America ~72: HERMANN, Aynur;MURPHY, Andrew J.;OLSON, Kara;SKOKOS, Dimitris;SMITH, Eric;ULLMAN, Erica;WAITE, Janelle;WEI, Joyce;YANCOPOULOS, George D.~ 33:US ~31:62/781,689 ~32:19/12/2018

- APPLIED ON 6/1/2021 1 -

2021/03748 ~ Complete ~54:MINE SIMILAR SIMULATION 3D PRINTING EXPERIMENT SYSTEM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Ke YANG;Peng ZHOU;Qiang FU;Qinjie LIU;Xin LV;Yu WANG;Yujing FANG;Yun HAN;Zhainan ZHANG~

2021/03751 ~ Complete ~54:A DRILLING OPERATION DEVICE OF OUTBURST DANGER PREDICTION ON THE STOPE WORKING PLANE AND A METHOD THEREOF ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Benqing YUAN;Gaoming ZHAO;Jiaxin DANG;Min TU;Qingchong ZHAO;Qingwei BU;Xiangyang ZHANG~

2021/03745 ~ Provisional ~54:AIR UVC STATIC MIXER ~71:Alain Lotter, 23 Timavo Drive La Lucia Durban, South Africa ~72: Alain Lotter~

2021/03766 ~ Complete ~54:NON-NATURAL NKG2D RECEPTORS THAT DO NOT DIRECTLY SIGNAL THE CELLS TO WHICH THEY ARE ATTACHED ~71:XYPHOS BIOSCIENCES INC., 100 Kimball Way, South San Francisco, California, 94080, United States of America ~72: DAVID MARTIN JR;KAMAN KIM;STEVEN WILLIAMS~ 33:US ~31:62/755,776 ~32:05/11/2018

2021/03771 ~ Complete ~54:A CRUSHER ~71:WESCONE DISTRIBUTION PTY LTD, 17 Sevenoaks St Bentley, Australia ~72: BERTI, Daniel;BIONDILLO, Joe;BOLTON, Lee;SUE, Ayrton~ 33:AU ~31:2019902955 ~32:15/08/2019

2021/03767 ~ Complete ~54:ATTACHING NUCLEOTIDES TO A POLYNUCLEOTIDE WITH A POLYMERASE ~71:ILLUMINA SINGAPORE PTE. LTD., 29 Woodlands Industrial Park E1, North Tech Lobby 3, #02-13/18, Singapore, 757716, Singapore;ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ANMIV PRABHU;ERIN GARCIA;JEFFREY MANDELL;JONATHON STUTCHMAN;KAITLIN PUGLIESE;LUDOVIC VINCENT;SERGIO PEISAJOVICH;SILVIA GRAVINA;XIANGYUAN YANG;YANNAN ZHAO;YIN NAH TEO~ 33:US ~31:62/890,065 ~32:21/08/2019

2021/03756 ~ Complete ~54:A DEVICE FOR MULTI-LEVEL COLLECTION OF MARINE POLLUTANTS ~71:SHANGHAI OCEAN UNIVERSITY, No. 999 Hucheng Ring Road, Lingang New City, Pudong New District, People's Republic of China ~72: CHEN, Xinjun;CHEN, Ziyue;LI, Qin;LIU, Kai;LU, Huajie;NING, Xin~

2021/03762 ~ Complete ~54:METHOD FOR PICTURE DECODING, DECODER, AND COMPUTER STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: JUNYAN HUO;SHUAI WAN;YANZHUO MA~ 33:US ~31:62/790,795 ~32:10/01/2019

2021/03770 ~ Complete ~54:METHOD FOR DETECTING POLYMERASE INCORPORATION OF NUCLEOTIDES ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ANMIV PRABHU;LUDOVIC VINCENT~ 33:US ~31:62/890,064 ~32:21/08/2019

2021/03757 ~ Complete ~54:A DEVICE FOR MONITORING WATER POLLUTION OF A RIVER CHANNEL ~71:SHANGHAI OCEAN UNIVERSITY, No. 999 Hucheng Ring Road, Pudong New District, Shanghai, People's Republic of China ~72: CHEN, Xinjun;CHEN, Ziyue;LI, Qin;LIU, Kai;LU, Huajie;NING, Xin~

2021/03764 ~ Complete ~54:MAPPING METHOD, ENCODER, DECODER, AND COMPUTER STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: FUZHENG YANG;HAIXIN WANG;JUNYAN HUO;SHUAI WAN;XINWEI LI;YANZHUO MA~

2021/03768 ~ Complete ~54:FLOW CELLS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: BERNARD HIRSCHBEIN;TARUN KUMAR KHURANA;XI-JUN CHEN;YASAMAN FARSHCHI;YIR-SHYUAN WU~ 33:US ~31:62/881,597 ~32:01/08/2019

2021/03749 ~ Complete ~54:VARIABLE-ANGLE SIMILAR SIMULATION EXPERIMENT BENCH ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Huining NI;Jiyao WANG;Juejing FANG;Ke YANG;Qiang FU;Xiaolou CHI;Xin LV;Zhen WEI~

2021/03753 ~ Complete ~54:A PUMPED STORAGE POWER GENERATION METHOD OF USING UNDERGROUND GASIFICATION ABANDONED MINES ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Juejing FANG;Ke YANG;Qiang FU;Xiaolou CHI;Xin LV;Yu WANG~

2021/03759 ~ Complete ~54:ELECTRICAL SENSOR ASSEMBLY ~71:G & W ELECTRIC COMPANY, 305 West Crossroads Pkwy. Bolingbrook, United States of America ~72: BAUER, Alberto~ 33:IT ~31:102018000011146 ~32:17/12/2018;33:IT ~31:202018000003942 ~32:17/12/2018

2021/03761 ~ Complete ~54:CERIUM OXIDE PARTICLES AND METHOD FOR PRODUCTION THEREOF ~71:Rhodia Operations, 52 rue de la Haie Coq, AUBERVILLIERS 93300, FRANCE, France ~72: NISHIMURA, Kaoru;OHTAKE , Naotaka;OKAZUMI, Mitsuhiro;SASAKI, Toshihiro~ 33:EP ~31:18306864.2 ~32:28/12/2018

2021/03754 ~ Complete ~54:AN ALKALOID COMPOUND EXTRACTED FROM BANANA BLOSSOMS AND ITS EXTRACTION METHOD ~71:GUANGXI ACADEMY OF AGRICULTURAL SCIENCES, No.174 East Daxue Road, Nanning, People's Republic of China ~72: CHEN, Xi;HE, Xuemei;LI, Changbao;LI, Jiemin;LI, Li;LI, Zhichun;LIU, Guoming;SUN, Jian;TANG, Jie;TANG, Yayuan;XIN, Ming;YANG, Ying;YE, Dongqing;YI, Ping;ZHENG, Fengjin;ZHOU, Zhugui~ 33:CN ~31:202110056396.1 ~32:15/01/2021

2021/03769 ~ Complete ~54:SYSTEM AND METHOD FOR PATTERNING FLOW CELL SUBSTRATES ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: DAJUN YUAN;RANDALL SMITH;STEVEN MODIANO~ 33:US ~31:62/884,753 ~32:09/08/2019;33:NL ~31:2023679 ~32:21/08/2019

2021/03747 ~ Provisional ~54:FOOT ALIGNMENT FOR EXTERNAL FIXATION ~71:BIRKHOLTZ INVESTMENTS (PTY) LTD, 7 Centuria Park, Von Willich Avenue, Centurion, South Africa ~72: BIRKHOLTZ, Franz Friedrich~

2021/03755 ~ Complete ~54:EXPERIMENTAL DEVICE FOR CONTINUOUSLY SEPARATING MIXTURE OF GAS-CONTAINING COAL AND WATER ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, People's Republic of China;CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1, Daxue Road, Xuzhou, People's Republic of China ~72: CAO, Liwen;FANG, Zezhong;HUANG, Huazhou;JIA, Jinlong;LIU, Changjiang;LIU, Huihu;LIU, Shiqi;SANG, Shuxun;WANG, Bowen;WANG, Haiwen;WANG, Ran;XU, Hongjie;YANG, Jingfen;ZHOU, Xiaozhi~

2021/03758 ~ Complete ~54:METHOD OF VALIDATING A SHOCK TUBE EVENT ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: BIRKIN, Christopher Malcolm;KOEKEMOER, Andre Louis;KRUGER, Michiel Jacobus;MAURISSENS, Daniel Auguste;MICHNA, Richard Joseph~ 33:ZA ~31:2019/00558 ~32:28/01/2019

2021/03763 ~ Complete ~54:CONTEXT-BASED INTRA PREDICTION ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., Room B-0035, 2/F, No. 3 Building No. 30, Shixing Road, Shijingshan District, Beijing, 100041, People's Republic of China;BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2018/119709 ~32:07/12/2018;33:CN ~31:PCT/CN2018/125412 ~32:29/12/2018;33:CN ~31:PCT/CN2019/070002 ~32:01/01/2019;33:CN ~31:PCT/CN2019/075874 ~32:22/02/2019;33:CN ~31:PCT/CN2019/075993 ~32:24/02/2019;33:CN ~31:PCT/CN2019/076195 ~32:26/02/2019;33:CN ~31:PCT/CN2019/079396 ~32:24/03/2019;33:CN ~31:PCT/CN2019/079431 ~32:25/03/2019;33:CN ~31:PCT/CN2019/079769 ~32:26/03/2019

2021/03752 ~ Complete ~54:AUTOMATIC STABILITY MEASURING VEHICLE OF ADVANCE ROADWAY AND APPLICATION METHOD THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Dongdong PANG;Hualei ZHANG;Ming BAO~

2021/03744 ~ Provisional ~54:PET WASTE FLUSH ~71:Peter John Coetzee, 21 Wild Plum Crescent, South Africa ~72: Peter John Coetzee~

2021/03746 ~ Provisional ~54:A CONNECTOR ~71:ZULYK TRADING ENTERPRISES (PTY) LTD, 06 CHARLES STREET, ELLATON, KLERKSDORP, 2571, SOUTH AFRICA, South Africa ~72: KGOKONG, Serame, June~

2021/03765 ~ Complete ~54:CHOLIX-DERIVED CARRIERS FOR ORAL DELIVERY OF HETEROLOGOUS PAYLOAD ~71:APPLIED MOLECULAR TRANSPORT INC., 1 Tower Place, Suite 850, South San Francisco, California, 94080, United States of America ~72: ALISTAIR TAVERNER;CHARLES OLSON;FLORIANE LAURENT;KEYI LIU;RANDALL J MRSNY;SALLY POSTLETHWAITE;TAHIR MAHMOOD;THOMAS CARL HUNTER;WEIJUNG FENG~ 33:US ~31:62/756,889 ~32:07/11/2018;33:US ~31:62/816,022 ~32:08/03/2019;33:US ~31:PCT/US2019/021474 ~32:08/03/2019;33:US ~31:62/888,133 ~32:16/08/2019;33:US ~31:62/888,144 ~32:16/08/2019;33:US ~31:62/888,400 ~32:16/08/2019

2021/03772 ~ Complete ~54:SAFETY CABINET DEVICE, UNLOCKING METHOD, AND UNLOCKING SYSTEM ~71:NINGBO POLYTECHNIC, 388 Lushan East Road, Ningbo Economic And Technological Development Zone, Zhejiang, People's Republic of China ~72: JIANG, Hao~ 33:CN ~31:202010420191.2 ~32:18/05/2020

2021/03750 ~ Complete ~54:A TRACKING-MODEL DUST MASK USED FOR AIR VOLUME AND HUMIDITY ADJUSTMENT IN THE MINE ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Fanfan YAO;Haoyan LI;Jucai CHANG;Wenbao SHI~

2021/03760 ~ Complete ~54:CONTROLLING PLANTS BY MEANS OF ELECTRICAL ENERGY ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BREITENSTROETER, Christoph;HADLOW, James;JIMENEZ TARODO, Sergio~ 33:EP ~31:18204105.3 ~32:02/11/2018

- APPLIED ON 6/2/2021 1 -

2021/03789 ~ Complete ~54:DECARBOXYLASE INHIBITORS FOR TREATING PARKINSON'S DISEASE ~71:SENDA BIOSCIENCES, INC., 20 Acorn Park Drive, Suite 300, Cambridge, Massachusetts, 02140, United States of America ~72: ANGELA SHE;BERNARD LANTER;DEVIN FOREST REED DOUD;DINARA SHASHANKA GUNASEKERA;ELIJAH BOGART;JOHN PROUDFOOT;MICHAEL RUTLIN;SPENCER CORY PECK;STEVEN TAYLOR;TIMOTHY BRIGGS;WILLIAM MCELROY~ 33:US ~31:62/776,459 ~32:06/12/2018

2021/03773 ~ Provisional ~54:SLIDING DOOR MECHANISMS ~71:JFE Electronic Engineering (Pty) Ltd, PO Box 12147 Parow Valley, South Africa ~72: FRANK, Dion Stuart~

2021/03793 ~ Complete ~54:ACHROMOSOMAL DYNAMIC ACTIVE SYSTEMS ~71:FLAGSHIP PIONEERING INNOVATIONS VI, LLC, 55 Cambridge Parkway, 8th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM BARCLAY FISHER;ANALISE ZAUNBRECHER REEVES;CAITLIN NICOLE SPAULDING;DAVID BARRY KOLESKY;HOK HEI TAM;KIMBERLY A HOMAN;TROY PATRICK HUBBARD~ 33:US ~31:62/777,305 ~32:10/12/2018

2021/03800 ~ Provisional ~54:SENSOR SYSTEM IN TRAFFIC LIGHTS INTERSECTION ~71:FULUFHEDZANI OBERT NETSHIUNGANI, 54 BLUE STREAM VILLAS ESTATE, PRETORIUSPARK, South Africa ~72: FULUFHEDZANI OBERT NETSHIUNGANI~

2021/03779 ~ Complete ~54:A METHOD FOR TESTING DAMAGE DEPTHS OF COAL SEAM ROOFS AND COAL SEAM FLOORS AFTER WORKING FACE STOPING ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Dong LI;Jucai CHANG;Kai HE;Wenbao SHI~

2021/03782 ~ Complete ~54:TERIFLUNOMIDE TOPICAL PHARMACEUTICAL COMPOSITIONS ~71:APRAMITHA INNOVATIONS PRIVATE LIMITED, 403 & 404, Sri Vensai Towers, Near Cineplanet, Kompally,, India ~72: KALAKOTI, Srikanth;MANAKKOTE, Ramdas;SREEDHARALA, Venkata Nookaraju~ 33:IN ~31:201841041818 ~32:05/11/2018

2021/03786 ~ Complete ~54:COMBINATION OF SMALL MOLECULE CD-47 INHIBITORS WITH OTHER ANTI-CANCER AGENTS ~71:AURIGENE DISCOVERY TECHNOLOGIES LIMITED, 39-40, KIADB INDUSTRIAL AREA, ELECTRONIC CITY PHASE II, HOSUR ROAD, KARNATAKA, BANGALORE 560 100, INDIA, India ~72: BALKUDRU, Kiran Aithal;DAGINAKATTE, Girish Chandrappa;RAMACHANDRA, Muralidhara;SASIKUMAR, Pottayil, Govindan, Nair~ 33:IN ~31:201841042108 ~32:08/11/2018

2021/03775 ~ Provisional ~54:ADJUSTABLE CONSTANT CURRENT SINK ELECTRONIC APPARATUS ~71:SMIT, Marthinus, Christoffel, 793A PLATRAN STREET, FAERIE GLEN, 0043, RSA, South Africa;SMITH, Reginald, Gerald, 38 TENNANT ROAD, KENILWORTH, CAPE TOWN, RSA, South Africa ~72: SMIT, Marthinus, Christoffel;SMITH, Reginald, Gerald~

2021/03780 ~ Complete ~54:3D PRINTED FILTER CENTER TUBE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: IMMEL, Jon T.;RODRIGUEZ, Javier A.~ 33:US ~31:16/211,395 ~32:06/12/2018

2021/03797 ~ Complete ~54:A CABLE SECURING DEVICE ~71:LIEBENBERG, Mark, Thompson, ERF 354, WILDERNESS, 6560, SOUTH AFRICA, South Africa ~72: LIEBENBERG, Mark, Thompson~ 33:ZA ~31:2018/08306 ~32:10/12/2018

2021/03776 ~ Provisional ~54:BOGIE ~71:DUNCAN, Malcolm Douglas, 1344 Spyker Crescent, Stormill, Ext 2, South Africa ~72: DUNCAN, Malcolm Douglas~

2021/03778 ~ Complete ~54:STAIR STRINGER ~71:WACO Africa (Pty) Ltd t/a SGB Cape, 181 Barbara Road, ELANDSFONTEIN, Germiston 1601, Gauteng, SOUTH AFRICA, South Africa ~72: VALAB, Mukesh Isver~

2021/03781 ~ Complete ~54:CUTTING, GRINDING AND POLISHING DISK, AND METHOD FOR MACHINING WORKPIECES ~71:HOCHSCHULE TRIER - TRIER UNIVERSITY OF APPLIED SCIENCES, Schneidershof, Trier, 54293, Germany ~72: EHLENZ, Tobias;FERRING, Jonas;ROBERT, Dietmar;WITTMANN, Armin~ 33:DE ~31:10 2018 008 920.8 ~32:13/11/2018

2021/03791 ~ Complete ~54:AMINO-ACID ANILIDES AS SMALL MOLECULE MODULATORS OF IL-17 ~71:LEO PHARMA A/S, Industriparken 55 2750 Ballerup, Denmark ~72: ALAN STUART JESSIMAN;KEVIN NEIL DACK;LARS JØRGENSEN;MARK ANDREWS;MIA NØRRESKOV BURHARDT;MOGENS LARSEN;PATRICK STEPHEN JOHNSON;PETER ANDERSEN;XIFU LIANG~ 33:EP ~31:18214002.0 ~32:19/12/2018;33:EP ~31:19187352.0 ~32:19/07/2019

2021/03795 ~ Complete ~54:METHODS OF INDUCING SIGA AND MUCIN 5B IN THE ORAL CAVITY
~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72:
CHEN, Dandan;MASTERS, James;TRIVEDI, Harsh Mahendra;YANG, Ying~ 33:US ~31:62/785,161
~32:26/12/2018

2021/03774 ~ Provisional ~54:PORTABLE ECO-RECHARGING BATTERY FREEZER ~71:AIKHOMU, Ehijele
Omozokpia, 8D Paul Kruger Avenue, Rothdene Kookrus, South Africa ~72: AIKHOMU, Ehijele Omozokpia~

2021/03783 ~ Complete ~54:DIGITAL FIAT CURRENCY ~71:VISA INTERNATIONAL SERVICE ASSOCIATION,
P.O. Box 8999, San Francisco, United States of America ~72: HURRY, Simon J.;PIERRE, Alexandre~ 33:US
~31:62/758,430 ~32:09/11/2018

2021/03785 ~ Complete ~54:HUMAN INTERLEUKIN-2 VARIANT OR DERIVATIVE THEREOF ~71:JIANGSU
HENGRUI MEDICINE CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone,,
People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road,
Minhang District, People's Republic of China;SHANGHAI SHENGDI PHARMACEUTICAL CO., LTD., No. 1288
Haike Road, Zhangjiang Town, People's Republic of China ~72: CHEN, Lei;GE, Hu;HU, Qiyue;KONG,
Xianglin;LIAO, Cheng;LIN, Yuan;OU, Yangchao;WANG, Hongwei;ZHANG, Lianshan~ 33:CN
~31:201811570930.5 ~32:21/12/2018;33:CN ~31:201910158957.1 ~32:04/03/2019

2021/03796 ~ Complete ~54:EMBEDDED CONNECTIVITY ~71:Nicoventures Trading Limited, Globe House, 1
Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BAKER, Darryl;KERSEY,
Robert;MOLONEY, Patrick~ 33:GB ~31:1820558.3 ~32:17/12/2018

2021/03835 ~ Complete ~54:INTERFERENCE-FLOW-BASED CONCENTRATION DETECTION COMPONENT
FOR ROTARY CUTTING DRAINAGE-TYPE CONCENTRATION TANK AND DETECTION APPARATUS WITH
SAME ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168, TAIFENG STREET, ANHUI
PROVINCE, People's Republic of China ~72: CHAO WANG;CHAO ZHANG;CHUNFU LIU;DEWEI
WANG;HAIZENG LIU;JIANGWEI XU;JIEQI ZHANG;ZHIYANG LI;ZHONGJIA HUANG~

2021/03787 ~ Complete ~54:ANTIBODIES RECOGNIZING TAU ~71:PROTHENA BIOSCIENCES LIMITED, 77
SIR JOHN ROGERSON'S QUAY, BLOCK C, GRAND CANAL DOCKLANDS, DUBLIN 2 D02 T804,
IRELAND, Ireland ~72: ALEXANDER, Svetlana;BARBOUR, Robin;DOLAN III, Philip, James;LIU, Yue;NIJJAR,
Tarlochan, S.;RENZ, Mark, E.~ 33:US ~31:PCT/US2018/059895 ~32:08/11/2018;33:US ~31:62/758,421
~32:09/11/2018

2021/03790 ~ Complete ~54:QUATERNARY AMMONIUM SALTS AS INHIBITORS OF TRIMETHYLAMINE
PRODUCTION ~71:SENDA BIOSCIENCES, INC., 20 Acorn Park Drive, Suite 300, Cambridge, Massachusetts,
02140, United States of America ~72: ANA MARTINEZ-DEL CAMPO;CHERI ROSS;DANNY LAFRANCE;DEVIN
FOREST REED DOUD;DINARA SHASHANKA GUNASEKERA;ELIJAH BOGART;GABRIEL BILLINGS;JENNY
LIU;JOHN PROUDFOOT;KATHLEEN NUDEL;KEHINDE AJAYI;KOJI YASUDA;SPENCER CORY
PECK;STEVEN TAYLOR;TIMOTHY BRIGGS;YOHANNES TEFFERA~ 33:US ~31:62/776,459 ~32:06/12/2018

2021/03836 ~ Complete ~54:SUPERIMPOSED ARC TYPE FISHWAY WITH VARIABLE HYDRAULIC
GRADIENT AND FISH PASSING METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.
168 TAIFENG STREET, People's Republic of China;CHINA THREE GORGES CORPORATION, NO. 1
YUYUANTAN SOUTH ROAD, People's Republic of China ~72: CHEN, QINGQING;DAI, HUICHAO;HE,
CHENGSHAN;JIANG, DINGGUO;JIANG, HONGLING;LIANG, ZHILONG;RONG, GUIWEN;WANG, LILI;YANG,
XUTING;ZHANG, SHUZAN~

2021/03799 ~ Complete ~54:WOODEN STAVE AND BARREL FOR DRINKS ~71:VALCHEDOR CASK S.L., B05405410 C/ Roa de la Vega 4, Piso 4, Puerta Drch, León, Spain ~72: GUTIÉRREZ ARAÚJO, Iván~ 33:ES ~31:U201800625 ~32:06/11/2018

2021/03777 ~ Complete ~54:KNOCK OFF TOOL ~71:DH DRILLING SERVICES (PTY) LTD, 8 Hoep Hoep Avenue, South Africa;PTD METALWORKING PROFESSIONALS (PTY) LTD, 116 PAUL SMIT ROAD, South Africa ~72: Filipe Dos Santos;Roelf Petrus (Dolla) HOLL~

2021/03794 ~ Complete ~54:METHOD AND ELECTRONIC DEVICE FOR CONTROLLING A MANUFACTURING OF A GROUP OF FINAL METAL PRODUCT(S) FROM A GROUP OF INTERMEDIATE METAL PRODUCT(S), RELATED COMPUTER PROGRAM, MANUFACTURING METHOD AND INSTALLATION ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Gaël MATHIS~

2021/03784 ~ Complete ~54:2-OXOQUINAZOLINE DERIVATIVES AS METHIONINE ADENOSYLTRANSFERASE 2A INHIBITORS ~71:IDEAYA BIOSCIENCES, INC., 7000 Shoreline Court, Suite 350, United States of America ~72: ALAM, Muzaffar;CLEARY, Leah;FLEURY, Melissa;KNOX, John E.;NEWBY, Zachary E. R.;PEI, Zhonghua;STEEL, Richard;SUTTON, James~ 33:US ~31:62/777,715 ~32:10/12/2018;33:US ~31:62/835,853 ~32:18/04/2019;33:US ~31:62/883,945 ~32:07/08/2019

2021/03788 ~ Complete ~54:USE OF DANTROLENE AND DANTROLENE PRODRUGS TO TREAT RADIATION EXPOSURE ~71:EAGLE RESEARCH LABS LIMITED, 93, Mill Street, Qormi, QRM 3102, Malta ~72: ADRIAN HEPNER~ 33:US ~31:62/772,001 ~32:27/11/2018

2021/03833 ~ Provisional ~54:TEAM REFLECTIVE BIB ~71:IKRAAM RASOOL, 17 Ravenshan Street, Parkdene,, South Africa ~72: IKRAAM RASOOL~

2021/03792 ~ Complete ~54:DRILL BIT ASSEMBLY FOR PERCUSSION DRILL TOOLS ~71:MINCON INTERNATIONAL LIMITED, Smithstown Industrial Estate, Shannon, Co. Clare, Ireland ~72: JOSEPH PURCELL~ 33:IE ~31:S2018/0460 ~32:22/11/2018;33:IE ~31:S2019/0096 ~32:20/06/2019

2021/03798 ~ Complete ~54:CRUSHING OF CORE SAMPLES ~71:ORBIS MINING PTY LTD, 693 Southern Estuary Road, Australia ~72: Bradley James HUNTING~ 33:AU ~31:2018904710 ~32:11/12/2018

- APPLIED ON 6/3/2021 1 -

2021/03802 ~ Provisional ~54:SMART SECURITY ALERT SYSTEM ~71:PATRICK SHELDON COSTELLO, 5 Vine Road, Woodstock, 7925, South Africa;WILLIAM THOMAS COSTELLO, 57 Robins Road, Observatory, 7925, South Africa ~72: PATRICK SHELDON COSTELLO;WILLIAM THOMAS COSTELLO~

2021/03827 ~ Complete ~54:LIQUID HAND DISHWASH FORMULATION COMPRISING FATTY ACIDS AND POLYMER ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: IVANA TROMBETTA;JIJI PAUL KOTTUKAPALLY;MAHESHWARA SHIVA NAIK;PUNAM BANDYOPADHYAY;SANDRA ANTONELLI~ 33:EP ~31:18213088.0 ~32:17/12/2018

2021/03813 ~ Complete ~54:METHOD AND SYSTEM OF ISSUING A PAYMENT TOKEN ~71:Dops Rewards (Pty) Ltd., 155 William Road, South Africa ~72: NAICKER, Lynton;PATEL, Nischal Kirankumar;ROYAN, Yolán Mayan~ 33:ZA ~31:2020/01428 ~32:06/03/2020

2021/03826 ~ Complete ~54:DEPOSITION SYSTEM FOR HAIR ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: CESAR ERNESTO MENDOZA FERNANDEZ;COLIN CHRISTOPHER DAVID GILES;HEATHER CLARKSON;KELVIN BRIAN

DICKINSON;MICHAEL JAMES COOKE;RICHARD JONATHAN BARFOOT;RONGRONG ZHOU~ 33:EP
~31:18213920.4 ~32:19/12/2018

2021/03819 ~ Complete ~54:KIF18A INHIBITORS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BANERJEE, Abhisek;BOURBEAU, Matthew Paul;BROWN, James Alexander;CHEN, Jian Jeffrey;FROHN, Michael J.;JIA, Lei;LI, Kexue;LIU, Qingyan;LOW, Jonathan Dante;MA, Vu;MINATTI, Ana Elena;PETTUS, Liping H.;TAMAYO, Nuria A.;WALTON, Mary Catherine~ 33:US ~31:62/783,061 ~32:20/12/2018

2021/03820 ~ Complete ~54:CAPSULE FORMULATIONS ~71:CHEMOCENTRYX, INC., 835 Industrial Road, Suite 600, United States of America ~72: LELETI, Manmohan Reddy;POWERS, Jay P.~ 33:US ~31:62/773,848 ~32:30/11/2018

2021/03829 ~ Complete ~54:EARLY POST-EMERGENCE HERBICIDAL ACTIVE COMPOSITIONS AND HERBICIDES ~71:SHENYANG AGRICULTURAL UNIVERSITY, 120 Dongling Road, Shenhe District, People's Republic of China ~72: CHEN, Yang;JI, Mingshan;QIN, Peiwen;WANG, Dan;XU, Jing~ 33:CN ~31:201910801421.7 ~32:28/08/2019

2021/03821 ~ Complete ~54:LANGUAGE AND COMPILER THAT GENERATE SYNCHRONOUS DIGITAL CIRCUITS THAT MAINTAIN THREAD EXECUTION ORDER ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ADRIAN MICHAEL CAULFIELD;BLAKE D PELTON~ 33:US ~31:16/247,269 ~32:14/01/2019

2021/03828 ~ Complete ~54:METHODS, APPARATUS AND MACHINE-READABLE MEDIUMS RELATED TO WIRELESS ACCESS IN COMMUNICATION NETWORKS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: LOPEZ, Miguel;STAVRIDIS, Athanasios;WILHELMSSON, Leif~

2021/03830 ~ Complete ~54:FULLY AUTOMATIC CHINESE YAM CLEANING, PEELING AND WASHING ALL-IN-ONE MACHINE ~71:BINZHOU UNIVERSITY, No. 391, 5th Huanghe Road, Binzhou, Shandong, 256600, People's Republic of China ~72: CAO, Jianmeng;LIU, Jing;LIU, Pengchuan~ 33:CN ~31:201911181560.0 ~32:27/11/2019

2021/03811 ~ Complete ~54:METHOD OF LASER CUTTING A STEEL ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Murali MANOHAR~ 33:IB ~31:PCT/IB2018/059988 ~32:13/12/2018

2021/03822 ~ Complete ~54:FABRICATION OF A QUANTUM DEVICE ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: PAVEL ASEEV;PHILIPPE CAROFF-GAONAC;H~ 33:US ~31:16/252,230 ~32:18/01/2019

2021/03809 ~ Complete ~54:DRAINAGE GULLY SURROUND ~71:HADLOW, William Albert, 15 Kronendal Street, Dalsig, South Africa ~72: HADLOW, William Albert~

2021/03810 ~ Complete ~54:RECOMBINANT AVIAN HERPES VIRUSES CONTAINING MULTIPLE FOREIGN GENES ~71:CEVA SANTE ANIMALE, 10 avenue de la Ballastiere, Libourne, 33500, France ~72: FUJISAWA, Ayumi~ 33:EP ~31:18306798.2 ~32:21/12/2018

2021/03818 ~ Complete ~54:HUMIDITY ACTIVATED COMPOSITIONS FOR RELEASE OF ANTIMICROBIALS ~71:Hazel Technologies, Inc., 3440 S. Dearborn St., Suite 112S, CHICAGO 60616, IL, USA, United States of America ~72: MOUAT, Aidan R.;PRESLAR, Adam Truett~ 33:US ~31:62/777,069 ~32:07/12/2018;33:US ~31:62/827,484 ~32:01/04/2019;33:US ~31:62/863,857 ~32:19/06/2019

2021/03823 ~ Complete ~54:SAVOURY COMPOSITION ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: REGINE WEIMAR;TANJA GRUDKE-KATSCHUS;WINFRIED RUPP~ 33:EP ~31:18214409.7 ~32:20/12/2018

2021/03814 ~ Complete ~54:A MODULAR ELECTROSURGICAL SYSTEM, AND MODULES FOR SAID SYSTEM ~71:CREO MEDICAL LIMITED, Creo House Unit 2, Beaufort Park, Beaufort Park Way, United Kingdom ~72: BISHOP, John;HANCOCK, Christopher Paul;HODGKINS, George~ 33:GB ~31:1820060.0 ~32:10/12/2018

2021/03803 ~ Complete ~54:AUXILIARY CONTROL SYSTEM FOR NUCLEAR POWER PLANTS ~71:WILD HR (Beijing) Intelligent Technology Co., LTD, 228, BLDG 27, No.8 Fenggusilu, Zhongguancun Yanqing Park, Yanqing District, Beijing, People's Republic of China ~72: Fang Xiang~

2021/03806 ~ Complete ~54:DRILLING RIG MOUNTING SYSTEM ~71:NOVATEK MINING (PTY) LIMITED, 6 Kindon Road, Robertsham, South Africa ~72: WILLS, Julian Howard~ 33:ZA ~31:2020/01431 ~32:06/03/2020

2021/03824 ~ Complete ~54:SAVOURY SEASONING COMPOSITION ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: JATIN SETHI;WINFRIED SAILER;XIAOJIE JU~ 33:EP ~31:18214761.1 ~32:20/12/2018

2021/03805 ~ Complete ~54:A SPECIMEN PREPARATION MOLD FOR A FILLING BODY SIMULATING COMPRESSION AND TAMPING ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Juejing FANG;Ke YANG;Qiang FU;Shuai LIU;Tong ZHANG;Xin LV;Yankun MA;Zhen WEI~

2021/03816 ~ Complete ~54:HYBRID POWER PLANT ~71:General Electric Company, 1 River Road, SCHENECTADY 12345, NY, USA, United States of America ~72: BURRA, Rajni;SAGI, Deepak Raj;TIWARI, Arvind Kumar~ 33:IN ~31:201841047089 ~32:12/12/2018

2021/03801 ~ Provisional ~54:AN ENDCAP FOR A ROOFING ELEMENT AND ASSOCIATED ASSEMBLY AND METHOD ~71:ECO TRUSS COVER SYSTEMS (PTY) LTD., 253 Eridanus Street, Waterkloof Ridge, PRETORIA 0181, Gauteng, SOUTH AFRICA, South Africa ~72: DA COSTA, Philip Marto;ROETS, Phillipus Johannes~

2021/03817 ~ Complete ~54:CHEMICALLY-MODIFIED RNAI CONSTRUCTS AND USES THEREOF ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CHENG, Yuan;HERBERICH, Bradley J.;MURRAY, Justin K.;WU, Bin~ 33:US ~31:62/777,677 ~32:10/12/2018

2021/03807 ~ Complete ~54:FOLDING TAMPER-PROOF CASE AND METHODS THEREOF ~71:CITADEL CASING LTD, PO Box 957, Offshore Incorporations Centre, Road Town, Tortola, 1110, Virgin Islands (British) ~72: ANDY WONG;DOUGLAS RUMSAM;LEWIS CHENG;TIMOTHEE LESNE~ 33:CN ~31:PCT/CN2020/094300 ~32:04/06/2020

2021/03808 ~ Complete ~54:PROVIDING ENRICHMENT INFORMATION USING HYPERTEXT TRANSFER PROTOCOL SECURE (HTTPS) ~71:UPSTREAM MOBILE COMMERCE LIMITED, Marylebone House, 52 – 54 St John Street, United Kingdom ~72: FANDRIDDI, Christini;KATIDIOTIS, Apostolos;KOTZALAS, Nikolaos;MILA, Natalia~ 33:ZA ~31:2020/07650 ~32:09/12/2020

2021/04091 ~ Complete ~54:COLD STORAGE DEVICE ~71:B MEDICAL SYSTEMS S.À R.L., 17, op der Hei, Luxembourg ~72: DEMUTH, Jeannot;RIES, Gilles;SADLER, Vincent~ 33:GB ~31:1818133.9 ~32:07/11/2018

2021/03804 ~ Complete ~54:A CONTROL METHOD OF A LARGE INCLINED WORKING FACE-ROOF LEAKAGE-COAL WALL SPALLING-BRACKET SLIDING BACKWARDS ~71:ANHUI UNIVERSITY OF SCIENCE

AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Ke YANG;Wenjie LIU;Xiaolou CHI;Xin LV;Zhainan ZHANG;Zhen WEI~

2021/03812 ~ Complete ~54:COMPOSITIONS COMPRISING PARABACTEROIDES BACTERIAL STRAINS FOR TREATING CANCER ~71:4D PHARMA RESEARCH LIMITED, Life Sciences Innovation Building, Cornhill Road, United Kingdom ~72: AHMED, Suaad;ETTORRE, Anna;FOTIADOU, Parthena;MULDER, Imke, Elisabeth~ 33:EP ~31:18212087.3 ~32:12/12/2018;33:EP ~31:1916001.9 ~32:04/11/2019;33:EP ~31:PCT/EP2019/080131 ~32:04/11/2019

2021/03815 ~ Complete ~54:COMPOSITION, FOR PREVENTING, RELIEVING OR TREATING CARTILAGE-RELATED DISEASES OR SYMPTOMS, COMPRISING HAPLN1 ~71:HaplnScience Inc., B-1001ho, 10F, 660, Daewangpangyo-ro, Bundang-gu, SEONGNAM-SI 13494, GYEONGGI-DO, REPUBLIC OF KOREA, Republic of Korea ~72: JANG, Ji Min;KIM, Dae Kyong~

2021/03825 ~ Complete ~54:AGGLOMERATED COMPOSITION COMPRISING AN EDIBLE SOLID PARTICULATE COMPONENT AND A POTATO STARCH ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: JOACHIM ROMANN;SUSANNE KERSTIN MERKL;THOMAS JÜRGEN KINKELIN;WINFRIED RUPP~ 33:EP ~31:18214402.2 ~32:20/12/2018

2021/03831 ~ Complete ~54:TWO-END REMOVING DEVICE FOR CHINESE YAMS ~71:BINZHOU UNIVERSITY, No. 391, 5th Huanghe Road, Binzhou, Shandong, 256600, People's Republic of China ~72: CAO, Jianmeng;LIU, Jing;LIU, Pengchuan~ 33:CN ~31:201911182786.2 ~32:27/11/2019

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2021/03837 ~ Complete ~54:KNEE PROTECTION DEVICE FOR LEAPS AND BOUNDS DANCE TRAINING ~71:Yang, Shuming, Unit 4, Building no. 16, Laonan District, Xianwen Garden, High-tech Zone, Ji'nan City, Shandong Province, 250100, People's Republic of China ~72: Yang, Shuming~

2021/03840 ~ Complete ~54:A INTERNAL TENSION-RELIEVING BRAIDING DEVICE AUGMENT CRUCIATE LIGAMENT RECONSTRUCTION ~71:First Affiliated Hospital of Kunming Medical University, No. 295 Xichang Road, First Affiliated Hospital of Kunming Medical University, Kunming City, Yunnan Province, People's Republic of China ~72: Han Rui;Li Yanlin;Shi Qinglv;Yang Xianguang;Yu Yang~

2021/03850 ~ Complete ~54:MODULATORS OF TREX1 ~71:Constellation Pharmaceuticals, Inc., 215 First Street, Suite 200, CAMBRIDGE 02142, MA, USA, United States of America ~72: GARDBERG, Anna;GEHLING, Victor S.;KHANNA, Avinash;LEVELL, Julian R.;TAVERAS, Kennedy;WILSON, Jonathan E.~ 33:US ~31:62/776,031 ~32:06/12/2018

2021/03842 ~ Complete ~54:HAND-HELD MELT ELECTROSPINNING DEVICE WITH BUILT-IN ELECTRODE ~71:QINGDAO UNIVERSITY OF SCIENCE & TECHNOLOGY, No. 99, Songling Road, Laoshan District, Qingdao City, Shandong Province, 266061, People's Republic of China ~72: CHUANSHENG WANG;HAICHAO LIU;HONGBO CHEN;RANRAN JIAN;WEIMIN YANG;WENWEN HAN~

2021/03858 ~ Complete ~54:TYROSINE KINASE INHIBITORS, COMPOSITIONS AND METHODS THERE OF ~71:Betta Pharmaceuticals Co., Ltd., 355 Xingzhong Road, Yuhang, HANGZHOU 311100, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jie;DING, Lieming;FU, Bang;LI, Yinlong;LIU, Xiangyong;REN, Wei;WANG, Jiabing~ 33:IB ~31:2018/119895 ~32:07/12/2018;33:IB ~31:2019/086204 ~32:09/05/2019

2021/03844 ~ Complete ~54:CRYSTALLINE FORMS AND SALT FORMS OF A KINASE INHIBITOR ~71:EXELIXIS, INC., 1851 Harbor Bay Parkway, Alameda, CA, United States of America ~72: BEVILL, Melanie,

Janelle;DEMORIN, Frenel;JOHNSON, Courtney, S.;PARENT, Stephan, D.;SHAH, Khalid;SHAKYA, Sagar;WONG, Peter~ 33:US ~31:62/779,430 ~32:13/12/2018;33:US ~31:62/856,469 ~32:03/06/2019

2021/03848 ~ Complete ~54:LIQUID CREAMER ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY CH-1800, SWITZERLAND, Switzerland ~72: FU, Jun-Tse Ray;SHER, Alexander A.~ 33:US ~31:62/767,008 ~32:14/11/2018;33:EP ~31:19155440.1 ~32:05/02/2019

2021/03857 ~ Complete ~54:REGULAR CODED BIN REDUCTION FOR COEFFICIENT DECODING USING THRESHOLD AND RICE PARAMETER ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: COBAN, Muhammed Zeyd;KARCZEWICZ, Marta~ 33:US ~31:62/776,379 ~32:06/12/2018;33:US ~31:62/787,681 ~32:02/01/2019;33:US ~31:16/704,995 ~32:05/12/2019

2021/03868 ~ Complete ~54:INHIBITORS OF APOL1 AND METHODS OF USING SAME ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALES MEDEK;ANNE FORTIER;BRIAN LEDFORD;CAMIL SAYEGH;ELAINE B KRUEGER;FAITH WITKOS;FRANCOIS DENIS;JINGRONG CAO;JON H COME;KAN-NIAN HU;KEVIN GAGNON;LESLIE A DAKIN;MARTINE HAMEL;MICHAEL BRODNEY;MUNA SHRESTHA;OLIVIER NICOLAS;PETER ROSE;SUGANTHINI S NANTHAKUMAR;TIANSHENG WANG;TIMOTHY J SENTER;WARREN A DORSCH;YI SHI~ 33:US ~31:62/780,667 ~32:17/12/2018

2021/03845 ~ Complete ~54:NANONETS FOR REMOVAL OF CONTAMINANTS FROM AQUEOUS SOLUTIONS, KITS THEREFOR AND METHODS OF THEIR USE ~71:CARBONET NANOTECHNOLOGIES INC., 301-980 GEORGE ST., VANCOUVER, BRITISH COLUMBIA V6A 0H9, CANADA, United States of America ~72: CARLSON, Michael;CATALDO-HERNANDEZ, Macarena;CULOTTA, Anne Marie;HAZIN, Khatera~ 33:US ~31:62/774,822 ~32:03/12/2018;33:US ~31:62/775,682 ~32:05/12/2018;33:US ~31:62/775,696 ~32:05/12/2018;33:US ~31:62/775,708 ~32:05/12/2018

2021/03851 ~ Complete ~54:ESTRA-1,3,5(10)-TRIENE COMPOUNDS CONDENSED IN POSITION 16(17) WITH A PYRAZOLE RING AS INHIBITORS OF 17-HSD1 ~71:Forendo Pharma Ltd, Itäinen Pitkäkatu 4 B, TURKU 20520, FINLAND, Finland ~72: HAKOLA, Marjo;HIRVELÄ; Leena;KOSKIMIES, Pasi;LINNANEN, Tero;STJERNSCHANTZ, Camilla~ 33:FI ~31:20186056 ~32:05/12/2018

2021/03855 ~ Complete ~54:PHARMACEUTICAL COMPOUNDS AND THEIR USE AS INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 19 (USP19) ~71:Almac Discovery Limited, Almac House, 20 Seagoe Industrial Estate, CRAIGAVON BT63 5QD, UNITED KINGDOM, United Kingdom ~72: BURKAMP, Frank;COSTA, Joana Rita Castro;CRANSTON, Aaron;HARRISON, Timothy;HELM, Matthew Duncan;JACQ, Xavier;O'DOWD, Colin;PROCTOR, Lauren Emma;ROUNTREE, James Samuel Shane;ROZYKA, Ewelina;SHEPHERD, Steven David;TREDER, Adam Piotr;WHITEHEAD, Steven Kristopher~ 33:GB ~31:1819937.2 ~32:06/12/2018;33:GB ~31:1904339.7 ~32:28/03/2019;33:GB ~31:1911311.7 ~32:07/08/2019

2021/03838 ~ Complete ~54:METHOD AND APPLICATION FOR SYNERGISTICALLY REMOVING ARSENIC FROM ARSENIC-ALKALI RESIDUE MIXED WITH ARSENIC CONTAINING MATERIALS ~71:Guangdong Polytechnic of Environmental Protection Engineering, Building 4, No .5 Courtyard, Yuancun West Street, Tianhe District, Guangzhou, Guangdong, 518028, People's Republic of China ~72: Hongsheng FANG;Wenxiang WANG;Xiaoyang WANG~

2021/03839 ~ Complete ~54:A SAFETY CABIN FOR THE SAFE OPERATION OF A TUNNELING MACHINE DRIVER ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Fanfan YAO;Haoyan LI;Jucai CHANG;Wenbao SHI~

2021/03834 ~ Provisional ~54:CONNECTION ASSEMBLY ~71:MAGNETO IP HOLDINGS (PTY) LTD, GATE 5, CNR NORTH REEF ROAD AND KRAFT, ELANDSFONTEIN, GERMISTON, South Africa ~72: BRADLEY WHELAN;MICHAEL DONALD ROBSON~

2021/03853 ~ Complete ~54:FROZEN CONFECTIONERY COMPRISING A COATING COMPOSITION AND PROCESS FOR PRODUCING THE COATING COMPOSITION ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: AEBI, Marcel;CHANDRASEKARAN, Shantha Nalur;NAPOLITANO, Guillermo E.;PALURI, Sravanti~ 33:US ~31:62/767,871 ~32:15/11/2018

2021/03866 ~ Complete ~54:SCANNING MODE APPLICATION OF NEUTRON GAMMA ANALYSIS FOR SOIL CARBON MAPPING ~71:AUBURN UNIVERSITY, 570 Devall Drive, Suite 102, Auburn, Alabama, 36832, United States of America;THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF AGRICULTURE, 1400 Independence Avenue S.W., Washington, District of Columbia, 20250, United States of America ~72: ALEKSANDR KAVETSKIY;BRYAN A CHIN;GALINA N YAKUBOVA;III HENRY ALLEN TORBERT;NIKOLAY SARGSYAN~ 33:US ~31:62/776,822 ~32:07/12/2018

2021/03870 ~ Complete ~54:SMART VALVE ADAPTOR WITH INTEGRATED ELECTRONICS ~71:BRAY INTERNATIONAL, INC., 13333 Westland E Blvd., Houston, Texas, 77041, United States of America ~72: BRINDESH DHRUVA;CRAIG BROWN;JIM SCHMIDT;MICHAEL KITCHENS;STAN ALLEN~ 33:US ~31:62/776,033 ~32:06/12/2018

2021/03843 ~ Complete ~54:AUXILIARY DEVICE FOR THREE-DIMENSIONAL MODEL RECONSTRUCTION OF PALEONTOLOGICAL FOSSIL ~71:Anhui University of Science and Technology, 168 Taifeng street, Huainan city, People's Republic of China ~72: XU, Xiaohui;YANG, Liuyin~

2021/03847 ~ Complete ~54:METHOD AND SYSTEM FOR PROVIDING A TAMPER PROOF RECORD CHAIN ~71:CAPITEC BANK LIMITED, 1 Quantum Street, Techno Park, South Africa ~72: CLAUSEN, Zsa-Jacques;DE WET, Riaan;SMITH, Arno;STEYN, Louis Johannes~ 33:ZA ~31:2018/07754 ~32:19/11/2018

2021/03854 ~ Complete ~54:USP19 INHIBITORS FOR USE IN THERAPY ~71:Almac Discovery Limited, Almac House, 20 Seagoe Industrial Estate, CRAIGAVON BT63 5QD, UNITED KINGDOM, United Kingdom ~72: BELL, Christina;BURKAMP, Frank;CRANSTON, Aaron;HARRISON, Timothy;HELM, Matthew Duncan;HEWITT, Peter;JACQ, Xavier;MCFARLAND, Mary Melissa;O'DOWD, Colin;PROCTOR, Lauren;ROUNTREE, James Samuel Shane;ROZYKA, Ewelina~ 33:GB ~31:1819936.4 ~32:06/12/2018;33:GB ~31:1904341.3 ~32:28/03/2019

2021/03856 ~ Complete ~54:PROCESSES FOR TREATMENT OF MICROBE SUSPENSIONS ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, SAINT LOUIS 63167, MO, USA, United States of America ~72: AULISA, Lorenzo;HUANG, Mingya;SHAMSIJAZEYI, Hadi;WANG, Hua~ 33:US ~31:62/756,403 ~32:06/11/2018

2021/03859 ~ Complete ~54:METAL OXIDES NANOPARTICLES CONJUGATED WITH NAPHTHALENE DERIVATIVES AS CONTRAST AGENTS FOR THE DETECTION OF BETA AMYLOID PLAQUES BY MAGNETIC RESONANCE IMAGES ~71:Centro de Neurociencias de Cuba, Calle 190 # 19818 % 25 y 27 Cubanacán. Playa, LA HABANA 11600, CUBA, Cuba;Facultad de Quimica, Universidad de la Habana, Zapata y G, Vedado, Plaza de la Revolución, LA HABANA 10400, CUBA, Cuba ~72: BENCOMO MARTÍNEZ, Alberto;DÍAZ GARCÍA, Alicia Marcelina;GONZÁLEZ DALMAU, Evelio;GUZMÁN RODRIGUEZ, Andy;HERNÁNDEZ RODRÍGUEZ, Armando José;IRIARTE MESA, Claudia;LEÓN CHAVIANO, Samila;PANEQUE QUEVEDO, Armando Augusto;REYES MOLINA, Israel;RIVERA MARRERO, Suchitil;RODRÍGUEZ IZQUIERDO, Julio

Ricardo;RODRIGUEZ-TANTY, Chryslaine;SABLÓN CARRAZANA, Marquiza;SOTO MENÉNDEZ DEL VALLE, Roberto~ 33:CU ~31:2018-0138 ~32:06/11/2018

2021/03860 ~ Complete ~54:METHOD AND SYSTEM FOR HIGH SPEED DETECTION OF DIAMONDS ~71:UNIVERSITY OF JOHANNESBURG, Cnr Kingsway Avenue and University Road, Auckland Park, JOHANNESBURG 2006, SOUTH AFRICA, South Africa ~72: ANDREW, Richard Charles;CONNELL, Simon Henry;COOK, Martin Nkululeko Hogan~ 33:NL ~31:2021956 ~32:08/11/2018

2021/03871 ~ Complete ~54:A HELIOSTAT SUB-ASSEMBLY ~71:VAST SOLAR PTY LTD, Level 8, 17-19 Bridge Street, Sydney, New South Wales, 2000, Australia ~72: BRUCE ALEXANDER LESLIE;KURT FRIEDRICH DREWES~ 33:AU ~31:2018904610 ~32:04/12/2018

2021/03865 ~ Complete ~54:METHODS AND MATERIALS FOR INCREASING TRANSCRIPTION FACTOR EB POLYPEPTIDE LEVELS ~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: BEIBEI CHEN;TOREN FINKEL;YUAN LIU~ 33:US ~31:62/788,049 ~32:03/01/2019;33:US ~31:62/879,374 ~32:26/07/2019

2021/03846 ~ Complete ~54:AUTOGRAFTING TOOL FOR DEEP REACH APPLICATIONS ~71:HUWAIS IP HOLDING, LLC., 721 17TH STREET, JACKSON, MI 49203, USA, United States of America ~72: HUWAIS, Salah~ 33:US ~31:62/756,406 ~32:06/11/2018

2021/03849 ~ Complete ~54:LIQUID CREAMER ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY CH-1800, SWITZERLAND, Switzerland ~72: FU, Jun-Tse Ray;SHER, Alexander A.~ 33:US ~31:62/767,017 ~32:14/11/2018;33:EP ~31:19155439.3 ~32:05/02/2019

2021/03852 ~ Complete ~54:LIQUID CREAMER ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY CH-1800, SWITZERLAND, Switzerland ~72: ALDAPE FARIAS, Guadalupe Del Carmen;FU, Jun-Tse Ray;RAMIREZ PAVON, Patricia;SHER, Alexander A.~ 33:US ~31:62/767010 ~32:14/11/2018;33:EP ~31:19155436.9 ~32:05/02/2019

2021/03862 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF LIVER DISORDERS ~71:VIKING THERAPEUTICS, INC., 12340 El Camino Real, Suite 250, United States of America ~72: LIAN, Brian;MASAMUNE, Hiroko~ 33:US ~31:62/775,799 ~32:05/12/2018;33:US ~31:62/821,303 ~32:20/03/2019

2021/03864 ~ Complete ~54:T CELL MODIFICATION ~71:ADAPT IMMUNE LIMITED, 60 Jubilee Avenue Milton Park, Abingdon, Oxfordshire, OX14 4RX, United Kingdom ~72: JOANNA BREWER;LUCA MELCHIORI~ 33:GB ~31:1819540.4 ~32:30/11/2018

2021/03869 ~ Complete ~54:A CAP FOR A CONTAINER, COMBINATION OF A CAP AND A NECK OF THE CONTAINER AND ITS PRODUCTION METHOD ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ALESSANDRO FALZONI;VITTORIO BASSI~ 33:IT ~31:102019000012534 ~32:22/07/2019;33:IT ~31:102019000012585 ~32:22/07/2019;33:IT ~31:102020000006496 ~32:27/03/2020

2021/03841 ~ Complete ~54:CAPS WITH SAFETY FUNCTION FOR PREVENTION OF EXCESSIVE PRESSURE ~71:LANXESS Deutschland GmbH, Kennedyplatz 1, KÖLN 50569, GERMANY, Germany ~72: TAUPP, Marcus;VOGL, Erasmus~ 33:EP ~31:20178455.0 ~32:05/06/2020

2021/03861 ~ Complete ~54:3-DIFLUOROALLYLAMINES OR SALTS THEREOF AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME ~71:Yuhan Corporation, 74, Noryangjin-ro, Daebang-dong, Dongjak-gu., Republic of Korea ~72: CHO, Hyok Jun;CHOI, Hyun Ho;HA, Na Ry;HAN, Tae Dong;JEONG, Da Na;KIM, Eun Kyung;KIM, So Young;LEE, Eui Chul;LIM, Cheol Hee;PARK, Sol;TAK, Hee Jae;Yang, Na Yeon~ 33:KR ~31:10-2018-0161725 ~32:14/12/2018;33:KR ~31:10-2019-0137387 ~32:31/10/2019

2021/03863 ~ Complete ~54:COMBINATION THERAPY FOR THE TREATMENT OF CANCER ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: HEYMACH, John V.;NILSSON, Monique;ROBICHAUX, Jacquelyne~ 33:US ~31:62/784,084 ~32:21/12/2018

2021/03867 ~ Complete ~54:TUBULYSINS AND PROTEIN-TUBULYSIN CONJUGATES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America ~72: AMY HAN;MARCUS KELLY;WILLIAM OLSON~ 33:US ~31:62/784,325 ~32:21/12/2018

- APPLIED ON 6/7/2021 1 -

2021/03897 ~ Complete ~54:A SYSTEM AND METHOD FOR MANAGING INVENTORY WITHIN A SMART BOX ~71:REBOUND INTERNATIONAL, LLC, 150 W Sam Houston Pkwy No. #2000, United States of America ~72: JUNG, David;ZHANG, Yongbo~ 33:US ~31:16/180,568 ~32:05/11/2018;33:US ~31:16/180,727 ~32:05/11/2018;33:US ~31:16/674,487 ~32:05/11/2019

2021/03880 ~ Complete ~54:3D PRINTING SIMILAR SIMULATION EXPERIMENT OPERATION METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Juejing FANG;Ke YANG;Shuai LIU;Xin LV;Yankun MA~

2021/03875 ~ Provisional ~54:METHOD AND SYSTEM OF GEOGRAPHICALLY MATCHING A USER TO A VENUE ~71:ROOS, Renier, 15 Hoyt Crescent, South Africa ~72: ROOS, Renier~

2021/03876 ~ Provisional ~54:MEANS TO MONITOR CLOSURE IN MINES – ROTATING OCCULUS ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/03885 ~ Complete ~54:DC-OVERCURRENT DETECTOR ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: HAUER, Wolfgang~ 33:GB ~31:2008583.3 ~32:08/06/2020

2021/03886 ~ Complete ~54:PORTABLE ELECTRONIC LOCK ~71:ABUS AUGUST BREMICKER SÖHNE KG, Altenhofer Weg 25 Wetter-Volmarstein , 58300, Germany ~72: MANUEL CORNELIUS NEVELING;TOBIAS WEISS~ 33:DE ~31:102020116008.9 ~32:17/06/2020

2021/03892 ~ Complete ~54:3.ALPHA.-HYDROXY-17.BETA.-AMIDE NEUROACTIVE STEROIDS AND COMPOSITIONS THEREOF ~71:SAGE THERAPEUTICS, INC., 215 First Street, Cambridge, United States of America ~72: BLANCO-PILLADO, Maria, Jesus;SALITURO, Francesco, G.~ 33:US ~31:62/784,222 ~32:21/12/2018;33:US ~31:62/784,229 ~32:21/12/2018

2021/03893 ~ Complete ~54:APPARATUS, METHOD AND COMPUTER PROGRAM FOR CONNECTION MANAGEMENT ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: WON, Sung Hwan~

2021/03905 ~ Complete ~54:METHOD OF DETERMINING RESPONSIVENESS TO CELL THERAPY IN DILATED CARDIOMYOPATHY ~71:University of Miami, 1951 NW 7th Avenue, MIAMI 33136, FL, USA, United

States of America ~72: HARE, Johua M.~ 33:US ~31:62/757,745 ~32:08/11/2018;33:US ~31:62/758,467 ~32:09/11/2018

2021/03909 ~ Complete ~54:SYSTEM FOR SCREENING VEHICLES AND METHOD OF RADIOSCOPIC CONTROL OF MOVING OBJECTS ~71:OBSSHHESTVO S OGRANICHENNOJ OTVETSTVENNOST' YU "ISB.A" (000 "ISB.A"), Lesnoj pr., 63, ofis 541, St. Petersburg, 194100, Russian Federation ~72: ALEKSANDR VLADIMIROVICH SIDOROV;ANDREJ MIHAJLOVICH FIALKOVSKIJ;EVGENIJ VLADIMIROVICH KRIVCHIKOV;SERGEJ PETROVICH NOVIKOV;VLADIMIR VITAL'EVICH GREBENSHCHIKOV~ 33:RU ~31:2018147399 ~32:27/12/2018

2021/03872 ~ Provisional ~54:A GRID ANTENNA ~71:BICK, Anthony Aaron, 41b 4th Avenue, Illovo, Sandton, South Africa;FANAROFF, Stanley, c/o Stan Fanaroff & Associates, 107 Oxford Road, Rosebank, South Africa ~72: BICK, Anthony Aaron;CONFAIT, Jean-Pierre Julius~

2021/03895 ~ Complete ~54:RESPIRABLE POLYNUCLEOTIDE POWDER FORMULATIONS FOR INHALATION ~71:CIVITAS THERAPEUTICS, INC., 190 EVERETT AVENUE, CHELSEA, MA 02150, USA, United States of America ~72: GILANI, Fahad;HARTMAN, Adam;LAVIGNE, Kyle;LIPP, Michael, M.~ 33:US ~31:62/760,232 ~32:13/11/2018

2021/03906 ~ Complete ~54:IMMUNOSTIMULANT FOR USE AGAINST PATHOGENS ~71:NEIKER - INSTITUTO VASCO DE INVESTIGACION Y DESARROLLO AGRARIO, S.A., Campus Agroalimentario de Arkaute, Apdo 46, E-01080, Vitoria-Gasteiz, Spain;SABIOTEC SPIN-OFF, S.L., Edificio Polivalente UCLM. Local 1.22, Camino de Moledores s/n, E-13005, Ciudad Real, Spain ~72: CHRISTIAN GORTZ;ZAR SCHMIDT;IKER AGIRREGOMOSKORTA SEVILLA;JOSU DE JESUS DE LA FUENTE GARCIA;JOSEBA M GARRIDO URKULLU;LUCAS DOMINGUEZ RODRIGUEZ;MERCEDES DOMINGUEZ RODRIGUEZ;RAMON ANTONIO JUSTE JORDAN~ 33:EP ~31:18382892.0 ~32:04/12/2018

2021/03914 ~ Complete ~54:CXCR7 INHIBITORS FOR THE TREATMENT OF CANCER ~71:CHEMOCENTRYX, INC., 835 Industrial Road, Suite 600, United States of America ~72: CAMPBELL, James J.;GOTOH, Noriko~ 33:US ~31:62/778,605 ~32:12/12/2018

2021/03874 ~ Provisional ~54:BIORETARDENT GLOVE ~71:David John Dougans, 12 Roosevelt road, South Africa ~72: David John Dougans~

2021/03887 ~ Complete ~54:PRIMER GROUP, KIT AND METHOD FOR ISOTHERMAL AMPLIFICATION FOR DETECTING HEPATITIS A VIRUS IN FOOD ~71:DALIAN NATIONALITIES UNIVERSITY, 18 Liaohe West Road, Dalian Economic and Technological Development Zone, Liaoning Province, People's Republic of China;ZHONGLIANRUI (BEIJING) BIOTECHNOLOGY CO., LTD, 5-1, building 5, yard 4, renheyuan 2nd Street, Renhe Town, Shunyi District, Beijing, People's Republic of China ~72: JIJUAN CAO;LILI CHEN;LILI YANG;QIUYUE ZHEN~ 33:CN ~31:CN2020105260797 ~32:08/06/2020

2021/03894 ~ Complete ~54:NUCLEIC ACIDS FOR INHIBITING EXPRESSION OF LPA IN A CELL ~71:SILENCE THERAPEUTICS GMBH, ROBERT-RINGSTRASSE 10, 13125 BERLIN, GERMANY, Germany ~72: BETHGE, Lucas;DAMES, Sibylle;FRAUENDORF, Christian;HAUPTMANN, Judith;RIDER, David, Anthony;SCHUBERT, Steffen;TENBAUM, Stephan;WEINGARTNER, Adrien~ 33:EP ~31:PCT/EP2018/081106 ~32:13/11/2018;33:EP ~31:19174466.3 ~32:14/05/2019

2021/03908 ~ Complete ~54:COMBINATION OF GABOXADOL AND LITHIUM FOR THE TREATMENT OF PSYCHIATRIC DISORDERS ~71:CERTEGO THERAPEUTICS INC., 3 Bioscience Park Dr., Farmingdale, New

York, 11735, United States of America ~72: KRISTIN BALDWIN;PAVEL OSTEN;ROBERT DEVITA~ 33:US
~31:62/770,287 ~32:21/11/2018;33:US ~31:62/879,921 ~32:29/07/2019

2021/03878 ~ Provisional ~54:ELECTRICITY GENERATION ~71:OLWIN TECHNOLOGIES PTY LTD, SOUTH AFRICA, South Africa ~72: BALMAKHUN, Sumith Rajendra;CHETTY, Vinagum;SOOKRAJ, Sadesh Harichand~

2021/03899 ~ Complete ~54:CAR T CELL METHODS AND CONSTRUCTS ~71:ABINTUS BIO, INC., 10355 Science Center Drive Suite 250 San Diego, United States of America ~72: BENTLEY, Cornelia;JOLLY, Douglas J.;LIN, Amy H.;OSTERTAG, Derek G.;ROBBINS, Joan M.;VIAUD, Sophie~ 33:US ~31:62/788,894
~32:06/06/2019

2021/03902 ~ Complete ~54:PERSONAL CARE COMPOSITIONS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BHARDWAJ, Vinay;BOYD, Thomas;FAN, Aixing;LI, Min;SOLIMAN, Nadia~ 33:US ~31:62/815,494 ~32:08/03/2019

2021/03915 ~ Complete ~54:METHOD FOR TREATING SUSPENSIONS OF SOLID PARTICLES IN WATER USING AMPHOTERIC POLYMERS ~71:S.P.C.M. SA, Zone d'Activit#233; Commerciale de Milieux, France ~72: FAVERO, C#233;drick;GAILLARD, Nicolas;READ, Emmanuelle;TIZZOTTI, Morgan~ 33:FR
~31:1873519 ~32:20/12/2018

2021/03900 ~ Complete ~54:ENDOSCOPE VISUAL FIELD-SECURING VISCOELASTIC COMPOSITION ~71:Jichi Medical University, 2-6-3 Hirakawa-cho, Chiyoda-ku, TOKYO 1020093, JAPAN, Japan;Otsuka Pharmaceutical Factory, Inc., 115, Aza Kuguhara, Tateiwa, Muya-cho, Naruto-shi, TOKUSHIMA 7728601, JAPAN, Japan ~72: HIRAKI Yuji;OHHATA Atsushi;YANO Tomonori~ 33:JP ~31:2018-218960 ~32:22/11/2018

2021/03901 ~ Complete ~54:CONTROL SEARCH SPACE OVERLAP INDICATION ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: BHATTAD, Kapil;SUN, Jing;ZHANG, Xiaoxia~ 33:IN ~31:201841042779
~32:14/11/2018;33:US ~31:16/681,554 ~32:12/11/2019

2021/03912 ~ Complete ~54:IRREVERSIBLE INHIBITORS OF MENIN-MLL INTERACTION ~71:BIOMEA FUSION, LLC, 926B Emerson Street, Palo Alto, California, 94301, United States of America ~72: BRENDAN KELLY;EDWARD PAINTER;JIM PALMER;MATTHEW WELSCH (DECEASED);RAVI UPASANI;SRIDHAR VEMPATI;THOMAS BUTLER~ 33:US ~31:62/786,842 ~32:31/12/2018

2021/03917 ~ Provisional ~54:CELLULAR PHONE VIDEO CONFERENCE CAMERA WITH ARTIFICIAL INTELLIGENCE AND VOICE RECOGNITION FOR HIGH END TELEVISIONS. ~71:Ahmed Waseef Saib, 24 Park avenue, Desainager Tongaat Beach,, South Africa ~72: Ahmed Waseef Saib~

2021/03882 ~ Complete ~54:PREFABRICATED CEMENT CONCRETE PAVEMENT STRUCTURE WITH PRESTRESS ~71:RESEARCH INSTITUTE OF HIGHWAY MINISTRY OF TRANSPORT, No.8, Xitucheng Road, Haidian District, Beijing, 100088, People's Republic of China ~72: He Zhe;Li Lihui;Li Sili;Quan Lei;Tian Bo;Xie Jinde;Zhang Panpan~

2021/03898 ~ Complete ~54:CIGARETTE-MAKING MACHINE AND METHOD FOR PRODUCING CIGARETTES ~71:Roger KOCH, Thurgauerstrasse 33, Switzerland ~72: Roger KOCH~ 33:CH ~31:01485/18 ~32:03/12/2018

2021/03877 ~ Provisional ~54:MOBILE TELEHEALTH01 ~71:Dr Morris A Mathebula, 714 Braam Pretorius Street, South Africa ~72: Dr Morris A Mathebula~ 33:ZA ~31:12 ~32:01/06/2021

2021/03888 ~ Complete ~54:BLASTING GROUTING COMBINED SUPPORT METHOD AND SYSTEM FOR END PART OF STEEL PIPE ANCHOR CABLE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY,

No. 168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Juejing FANG;Ke YANG;Qiang FU;Qinjie LIU;Wenjie LIU;Xiaolou CHI;Xin LV;Xinyuan Zhao;Zhen WEI~

2021/03907 ~ Complete ~54:GABOXADOL FOR REDUCING RISK OF SUICIDE AND RAPID RELIEF OF DEPRESSION ~71:CERTEGO THERAPEUTICS INC., 3 Bioscience Park Dr., Farmingdale, New York, 11735, United States of America ~72: KRISTIN BALDWIN;PAVEL OSTEN~ 33:US ~31:62/770,287 ~32:21/11/2018

2021/03913 ~ Complete ~54:REVERSIBLE BRACKET ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, United States of America ~72: ROBERTS, Clancy P.~ 33:US ~31:62/780,483 ~32:17/12/2018

2021/03881 ~ Complete ~54:HEALTHY NUTRITION FLOUR FOR DIABETIC AND PREPARATION METHOD THEREOF ~71:JINAN QINGHUI AGRICULTURAL SERVICE CO., LTD., APARTMENT 1301, BUILDING H, HENG DACHENG, NO. 58 INDUSTRIAL NORTH ROAD, People's Republic of China ~72: JI, CHENGRUN~

2021/03890 ~ Complete ~54:BIODEGRADABLE BIOCHEMICAL SENSOR FOR DETERMINING THE PRESENCE AND/OR THE LEVEL OF PESTICIDES OR ENDOCRINE DISRUPTORS: METHOD AND COMPOSITION ~71:CENTRE NATIONALE DE LA RECHERCHE SCIENTIFIQUE (CNRS), 3 rue Michel-Ange, Paris, 75016, France;SKILLCELL, 44 rue Henri Becquerel Jarry, Baie Mahault, 97122, France ~72: ESPEUT, Julien;MOLINA, Franck~ 33:EP ~31:18214973.2 ~32:20/12/2018

2021/03873 ~ Provisional ~54:BIORETARDENT GLOVE ~71:David John Dougans, 12 Roosevelt road, South Africa ~72: David John Dougans~

2021/03884 ~ Complete ~54:A TEST DEVICE FOR INSTABILITY MECHANISM MODEL OF COAL PILLAR IN MINING AREA BOUNDARY ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Guangtao WANG;Jiwen WU;Wenbin ZHANG;Wenqiang LI;Xiaorong ZHAI;Yali SHI~

2021/03891 ~ Complete ~54:INOCULUM TRANSFER APPARATUS AND RELATED METHODS ~71:BEE VECTORING TECHNOLOGY INC, 4160 Sladeview Crescent, #7 Mississauga, Canada ~72: COLLINSON, Ian, Michael;DICKS, Peter~ 33:US ~31:62/772,181 ~32:28/11/2018

2021/03904 ~ Complete ~54:CONNECTIVITY INTERMEDIARY ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BAKER, Darryl;KERSEY, Robert;MOLONEY, Patrick~ 33:GB ~31:1820545.0 ~32:17/12/2018

2021/03911 ~ Complete ~54:FOOD WASTE DETECTION METHOD AND SYSTEM ~71:WASTIQ B.V., Europalaan 2, Unit 129, 3526 KS, Utrecht, Netherlands ~72: BART VAN ARNHEM;OLAF EGBERT VAN DER VEEN~ 33:NL ~31:2022213 ~32:14/12/2018

2021/03879 ~ Provisional ~54:AUTOMOTIVE BROKERAGE SERVICES ~71:Dumisa Njikelana, No 50 St Johns Road, Houghton Estate, South Africa ~72: Dumisa Njikelana~

2021/03910 ~ Complete ~54:TRUCK BED ~71:METSO OUTOTEC SWEDEN AB, Box 132, 231 22, Trelleborg, Sweden ~72: HENRIK PERSSON;JENS LAGERSKI~LD~ 33:SE ~31:1851564-3 ~32:12/12/2018

2021/03896 ~ Complete ~54:METHOD OF MAKING A TEE RAIL HAVING A HIGH STRENGTH BASE ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Bruce STEVENSON;Jason MCCULLOUGH;Raymond UHRIN;Richard L PERRY;Zachary ROYER~ 33:IB ~31:PCT/IB2018/060411 ~32:20/12/2018

2021/03903 ~ Complete ~54:METHOD FOR ENHANCING THE GROWTH AND SURVIVAL RATE OF MICROORGANISMS ~71:Danstar Ferment AG, Poststrasse 30, ZUG 6300, SWITZERLAND, Switzerland ~72: BOA, Tyler;WHITING, Mike~ 33:US ~31:62/778,167 ~32:11/12/2018

2021/03883 ~ Complete ~54:SYSTEM FOR ANALYZING TEMPORAL AND SPATIAL EVOLUTION LAW OF PORES IN CAVING ZONE AND FISSURE ZONE DURING COAL SEAM MINING ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Guangtao WANG;Jiwen WU;Kai HUANG;Ru HU;Wei LIU;Xiaorong ZHAI;Yaoshan BI~

2021/03889 ~ Complete ~54:AN ABANDONED MINE BASED BIOGAS FERMENTATION-FERTILIZER PREPARATION SYSTEM AND ITS USE METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Juejing FANG;Ke YANG;Shuai LIU;Xin LV;Yankun MA~

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2021/03918 ~ Complete ~54:REFERENCE MODEL ADAPTIVE RATE CONTROL SYSTEM AND METHOD IN COOPERATIVE VEHICLE SAFETY SYSTEM ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China ~72: SONG, Caixia;XU, Pengmin~ 33:CN ~31:202110531922.5 ~32:17/05/2021

2021/03946 ~ Complete ~54:CYTOSTATIC CONJUGATES WITH INTEGRIN LIGANDS ~71:Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: KELDENICH (Deceased), Jörg;KOPITZ, Charlotte Christine;LERCHEN, Hans-Georg;STELTE-LUDWIG, Beatrix~ 33:EP ~31:18204423.0 ~32:05/11/2018

2021/03936 ~ Complete ~54:QUINOLINE DERIVATIVES FOR USE IN THE TREATMENT OR PREVENTION OF CANCER ~71:ABIVAX, 5 rue de la Baume, 75008, Paris, France;CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 rue Michel Ange, 75794 , Paris Cedex 16, France;INSTITUT CURIE, 26 rue d'Ulm, 75248, Paris Cedex 05, France;UNIVERSITE DE MONTPELLIER, 163 rue Auguste Broussonnet, 34090, Montpellier, France ~72: DIDIER SCHERRER;HARTMUT EHRlich;JAMAL TAZI;PHILIPPE POULETTY~ 33:EP ~31:18306783.4 ~32:20/12/2018

2021/03937 ~ Complete ~54:DEVICE FOR CONTAINING GRANULAR ELEMENTS ~71:SOLETANCHE FREYSSINET, 280 avenue Napoléon Bonaparte, 92500, Rueil Malmaison, France ~72: NICOLAS FREITAG;YASSINE BENNANI BRAOULI~ 33:FR ~31:18 60405 ~32:09/11/2018

2021/03942 ~ Complete ~54:PYRIMIDONE DERIVATIVES AS SELECTIVE CYTOTOXIC AGENTS AGAINST HIV INFECTED CELLS ~71:Merck Sharp & Dohme Corp., 126 East Lincoln Avenue, RAHWAY 07065-0907, NJ, USA, United States of America ~72: CONVERSO, Antonella;EL MARROUNI, Abdellatif;FORSTER, Ashley;FRIE, Jessica L.;HUNTER, David N.;KUDUK, Scott D.;MITCHELL, Helen J.;NANTERMET, Philippe;SHA, Deyou;SHIPE, William Daniel;WANG, Cheng;WANG, Deping~ 33:US ~31:62/781,356 ~32:18/12/2018

2021/03923 ~ Complete ~54:D-INSAR THREE-DIMENSIONAL PREDICTION METHOD FOR FULL-SCALE GRADIENT MINING SUBSIDENCE BASED ON IMPROVED DYNAMIC PREDICTION MODEL CONSTRAINT ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Chuang JIANG;Lei WANG;Xuexiang YU;Zhongchen GUO~

2021/03935 ~ Complete ~54:BIOMARKERS, AND USES IN TREATMENT OF VIRAL INFECTIONS, INFLAMMATIONS, OR CANCER ~71:ABIVAX, 5 rue de la Baume, 75008, Paris, France;CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 rue Michel Ange, 75794 , Paris Cedex 16, France;INSTITUT CURIE, 26

rue d'Ulm, 75248, Paris Cedex 05, France; UNIVERSITÉ DE MONTPELLIER, 163 rue Auguste Broussonnet, 34090, Montpellier, France ~72: DIDIER SCHERRER; HARTMUT ERLICH; JAMAL TAZI; LAURENT MANCHON; PHILIPPE POULETTY ~ 33:EP ~31:18306784.2 ~32:20/12/2018

2021/03920 ~ Complete ~54: YIELDING MINE SUPPORT PACK ~71: SPIROTECH MINING SERVICES (PTY) LTD., Unit B Zante Park, 237 Luipaard Street, Boltonia, Krugersdorp, 1739, South Africa ~72: DEANE CONOR O'HAUGHEY ~ 33:ZA ~31:2020/01463 ~32:09/03/2020

2021/03922 ~ Complete ~54: A PHOTOELECTRIC DETECTOR ~71: Huainan Normal University, Dongshan West Road, Huainan City, Anhui Province, People's Republic of China ~72: Li Hui; Li Lanlan; Wang Shouya; Yang Zhijun; Zhang Ke ~

2021/03932 ~ Complete ~54: VIDEO CODING METHOD ON BASIS OF SECONDARY TRANSFORM, AND DEVICE FOR SAME ~71: LG ELECTRONICS INC., 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea ~72: JAEHYUN LIM; MOONMO KOO; SEUNGHWAN KIM ~ 33:US ~31:62/782,294 ~32:19/12/2018

2021/03930 ~ Complete ~54: MACHINE SYSTEM HAVING MACHINERY ROLLER ASSEMBLY WITH STATIC SEALING CLAMPING COLLARS ~71: CATERPILLAR INC., 100 NE Adams Street, Peoria, United States of America ~72: BAAR, William; TRONE, Matthew W.; UMBACH, Brian ~ 33:US ~31:16/215,751 ~32:11/12/2018

2021/03934 ~ Complete ~54: A PROCESS FOR THE PREPARATION OF HIGH SURFACE AREA ALPHA ALUMINA AND THE USE THEREOF ~71: STUDIENGESELLSCHAFT KOHLE MBH, Kaiser-Wilhelm-Platz 1, 45470, Mülheim, Germany ~72: AMOL AMRUTE; FERDI SCHUETH; HANNAH SCHREYER ~ 33:EP ~31:19154220.8 ~32:29/01/2019; 33:DE ~31:10 2019 216 426.9 ~32:24/10/2019

2021/03941 ~ Complete ~54: IMAGE ENCODING METHOD AND APPARATUS FOR VIDEO SEQUENCE, AND IMAGE DECODING METHOD AND APPARATUS FOR VIDEO SEQUENCE ~71: Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Xu; ZHENG, Jianhua ~ 33:CN ~31:201811458677.4 ~32:30/11/2018

2021/03931 ~ Complete ~54: ZEOLITE AGGLOMERATE MATERIAL, METHOD OF PRODUCTION, AND USE FOR THE NON-CRYOGENIC SEPARATION OF GAS ~71: ARKEMA FRANCE, 420, rue d'Estienne d'Orves, 92700, Colombes, France ~72: CÉCILE LUTZ; GUILLAUME ORTIZ; QUITTERIE PERSILLON; SYLVIE SZENDROVICS ~ 33:FR ~31:1873871 ~32:21/12/2018

2021/03939 ~ Complete ~54: DRUG DELIVERY DEVICES AND SYSTEMS FOR LOCAL DRUG DELIVERY TO THE UPPER URINARY TRACT ~71: TARIS Biomedical LLC, 113 Hartwell Avenue, LEXINGTON 02421, MA, USA, United States of America ~72: ABBATE, Emily; CAULKINS, John; DANIEL, Karen; GREENAWAY, Erik; HO DUC, Hong Linh ~ 33:US ~31:62/757,798 ~32:09/11/2018

2021/03944 ~ Complete ~54: ASSEMBLY FOR INSERTION INTO AN AEROSOL PROVISION DEVICE ~71: Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick ~ 33:GB ~31:1901067.7 ~32:25/01/2019

2021/03940 ~ Complete ~54: WATER SOLUBLE SILICON-CONTAINING GRANULATE ~71: Bio Minerals N.V., Zenderstraat 12, DESTELBERGEN 9070, BELGIUM, Belgium ~72: CALOMME, Mario Remi Yvonne; ISHIHARA, Keno; OKABE, Masako; PASSWATER, Richard Alan ~ 33:EP ~31:18205367.8 ~32:09/11/2018

2021/03943 ~ Complete ~54:HYDROCYCLONE ~71:Vulco S.A., San Jos#233; N#176; 815, SAN BERNARDO 8081682, SANTIAGO DE CHILE, CHILE, Chile ~72: CEPEDA, Eduardo;LAGOS, Jorge;SCHMIDT, Mark~ 33:GB ~31:1821140.9 ~32:21/12/2018

2021/03933 ~ Complete ~54:QUINOLINE DERIVATIVES FOR USE IN THE TREATMENT OF INFLAMMATION DISEASES ~71:ABIVAX, 5, rue de la Baume, 75008, Paris, France;CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 rue Michel Ange, 75794 , Paris Cedex 16, France;INSTITUT CURIE, 26 rue d#39;Ulm, 75248, Paris Cedex 05, France;UNIVERSITE DE MONTPELLIER, 163 rue Auguste Broussonnet, 34090, Montpellier, France ~72: DIDIER SCHERRER;HARTMUT EHRlich;JAMAL TAZI;PHILIPPE POULETTY~ 33:EP ~31:18306782.6 ~32:20/12/2018

2021/03919 ~ Complete ~54:NANO-PCR DETECTION KIT FOR INFECTIOUS BOVINE RHINOTRACHEITIS VIRUS AND PREPARATION METHOD THEREOF ~71:INSTITUTE OF SPECIAL ANIMAL AND PLANT SCIENCES OF CAAS, No. 4899 Juye Street, Jingyue Development Zone, Changchun, People's Republic of China ~72: CHENG, Yuening;FENG, Erkai;GUO, Li;LUO, Guoliang;SUN, Hongmei;SUN, Na;WANG, Zhenjun;YI, Li;ZHAO, Jinghui;ZHAO, Lifeng;ZHONG, Wei~

2021/03927 ~ Complete ~54:CONTROLLABLE MULTI-FACTOR GROUND SOURCE HEAT PUMP TESTING PLATFORM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: CHENG, Bin;FANG, Yu;HUANG, Xianwen;LI, Xiang;LI, Xinwei;LIU, Xiaohu;XUE, Weipei;YAO, Zhishu~

2021/03928 ~ Complete ~54:DOUBLE-STRANDED NUCLEIC ACID INHIBITOR MOLECULES CONTAINING A TRILOOP ~71:DICERNA PHARMACEUTICALS, INC, 33 Hayden Avenue, Lexington, United States of America ~72: BROWN, Bob, Dale~ 33:US ~31:62/778,759 ~32:12/12/2018

2021/03948 ~ Provisional ~54:MULTI TELEVISION DRIVE-INS ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS~

2021/03924 ~ Complete ~54:DEVICE FOR OBTAINING DATA OF MINING SUBSIDENCE IN MINING AREA ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Hao TAN;Xuexiang YU~

2021/03926 ~ Complete ~54:A NUTRITIONAL SUPPLEMENT REPAIR FORMULATION ~71:PAUL ANTHONY SAAD, 55 Heath Row Essenwood Berea, South Africa ~72: Paul Anthony SAAD~ 33:ZA ~31:2020/03491 ~32:11/06/2020

2021/03947 ~ Complete ~54:SOLID PREPARATION FROM HERBICIDE COMPOSITION AND PREPARATION METHOD THEREFOR ~71:Shenyang Sinochem Agrochemicals R&D Co., Ltd., No. 8-1 Shenliao East Road, Tiexi District, SHENYANG 110021, LIAONING, CHINA (P.R.C.), People's Republic of China ~72: CHOU, Jingyu;CUI, Yong;DONG, Guangxin;LI, Yang;LIU, Changling;MI, Shuang;YANG, Jichun~ 33:CN ~31:201811533155.6 ~32:14/12/2018

2021/03929 ~ Complete ~54:TISSUE REFILL FOR TISSUE RECOVERY ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: KLING, Robert~ 33:WO ~31:PCT/EP2018/086728 ~32:21/12/2018

2021/03938 ~ Complete ~54:DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCK#201;, Eddy Alberic~ 33:US ~31:62/775,078 ~32:04/12/2018

2021/03945 ~ Complete ~54:IMIDAZO[1,2-B]PYRIDAZINE IL-17A INHIBITORS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: COATES, David Andrew;FRIMPONG, Kwame;HOLLOWAY, William Glen;JONES, Spencer Brian;LEVINSON, Adam Marc;LUGAR III, Charles Willis;RICHETT, Michael Enrico;WATSON, Brian Morgan;WOODMAN, Michael Edward~ 33:US ~31:62/789,247 ~32:07/01/2019;33:US ~31:62/842,770 ~32:03/05/2019

2021/03916 ~ Provisional ~54:YIELDING ANCHOR ~71:FABCHEM MINING (PTY) LTD, 58 Watt Road, New Era, South Africa;MSP MINE SUPPORT PRODUCTS (PTY) LTD, 108 Houtkop Rd, Duncanville, South Africa ~72: MUGERI, Frederick Livhuwani;NISSEN, Christian Engelstoff~

2021/03921 ~ Complete ~54:MODIFIED FUNGUS CHAFF SORBENT AND PREPARATION METHOD THEREOF ~71:Xuzhou University of Technology, No.2 Lishui Road, Yunlong District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Chen Anhui;Chen Shanglong;Liu Enqi;Liu Hui;Zhao Jiechang~

2021/03925 ~ Complete ~54:MOLECULAR MARKER FOR IDENTIFYING FUSARIUM CROWN AND ROOT ROT OF TOMATO AND USE THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, 700 Changcheng Road, Chengyang District, People's Republic of China ~72: LI, Wenli;WANG, Fu;WANG, Hui;WANG, Yu;ZHU, Wenying~

- APPLIED ON 6/9/2021 1 -

2021/03959 ~ Complete ~54:TEMPERATURE-CONTROLLED MUNICIPAL SOLID WASTE GAS PERMEABILITY COEFFICIENT MEASUREMENT TESTING DEVICES AND METHODS ~71:HOHAI UNIVERSITY, No. 8, Buddha City West Road, Jiangning, Nanjing, People's Republic of China ~72: LI, Xiulei;LI, Yulin;LI, Yuping;LIU, Chao;LIU, Zhanlei;SHI, Jianyong;SHU, Shi;WU, Xun;YANG, Yang;ZHANG, Tao;ZHANG, Yuchen;ZHOU, Yaji~ 33:CN ~31:202010557778.8 ~32:18/06/2020

2021/03966 ~ Complete ~54:SYSTEM AND PROCESS FOR CONDUCTING IN-FIELD OPERATIONS ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: BURGETT, Scott R.;CARPENTER, Christopher M.;CLARKE, Rodney K.;COWGILL, Noah D.;GUROCAK, Hakan;PAUL, David M.~ 33:US ~31:62/777,656 ~32:10/12/2018

2021/03953 ~ Complete ~54:A METHOD FOR PREPARING ARCTIUM LAPPA L FLAVONOIDS BY ENZYME PRETREATMENT COMBINED WITH ULTRASONIC-FLASH EXTRACTION ~71:Xuzhou University of Technology, No. 2 Lishui Road, Yunlong District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Chen Anhui;Gu Ran;Liu Enqi;Lu Wenjing;Wu Yonghua;Zhang Jianping;Zhou Jinwei~

2021/03974 ~ Complete ~54:CRYSTAL FORM OF HEPATITIS B SURFACE ANTIGEN INHIBITOR ~71:FUJIAN COSUNTER PHARMACEUTICAL CO., LTD., Building 1-7, Fuyuan Industrial Zone Zherong County , Ningde, Fujian, 355300, People's Republic of China ~72: CHARLES Z DING;FEI SUN;SHENYI SHI;YANBIN HU;YANXIAO SU~ 33:CN ~31:201811399514.3 ~32:22/11/2018

2021/03979 ~ Complete ~54:METHODS FOR SELECTIVE IN VIVO EXPANSION OF GAMMA DELTA T-CELL POPULATIONS AND COMPOSITIONS THEREOF ~71:ADICET BIO, INC., 200 Constitution Drive, Menlo Park, California, 94025, United States of America ~72: AYA JAKOBOVITS;DAULET SATPAYEV;HUI SHAO;ORIT FOORD;YIFENG FRANK JING~ 33:US ~31:62/774,817 ~32:03/12/2018

2021/03954 ~ Complete ~54:METHOD FOR ANALYZING SPATIAL-TEMPORAL EVOLUTION LAW OF VOIDS IN COAL SEAM MINING-INDUCED CAVED ZONE AND FRACTURED ZONE ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Guangtao WANG;Hu RU;Jiwen WU;Kai HUANG;Wei LIU;Xiaorong ZHAI;Yaoshan BI~

2021/03971 ~ Complete ~54:CATALYST SYSTEM AND METHOD FOR THE CATALYTIC COMBUSTION OF AMMONIA TO FORM NITROGEN OXIDES IN A MEDIUM-PRESSURE SYSTEM ~71:HERAEUS DEUTSCHLAND GMBH & CO. KG, Heraeusstrasse 12 -14, Germany ~72: Dirk MAIER;Willi BOLL~ 33:EP ~31:19151598.0 ~32:14/01/2019

2021/03957 ~ Complete ~54:POSTURE ACQUISITION METHOD AND DIGITAL PROTECTIVE CLOTHING CUSTOMIZATION SYSTEM BASED ON METHOD ~71:TAIZHOU CENTRAL HOSPITAL (TAIZHOU UNIVERSITY HOSPITAL), 999 Donghai Road, Jiaojiang District, Zhejiang Province, People's Republic of China ~72: HU, Fuyu;LI, Qiao;LI, Zhaoyun;LIU, Chen;LU, Zongjun;SHU, Sheng;WANG, Li;WU, Bo;XU, Hanglong;XU, Yinghe;ZHU, Jie~ 33:CN ~31:202010520722.5 ~32:10/06/2020

2021/03963 ~ Complete ~54:HOT-EXTRACTION PAPER ~71:MONDI AG, Marxergasse 4A, Austria ~72: JÖBSTL, Franz;KAINZ, Reinhard;SCHWAIGER, Elisabeth~ 33:AT ~31:A374/2018 ~32:14/12/2018

2021/04090 ~ Provisional ~54:PORTABLE POCKET PROJECTOR (PCUBED) ~71:AARON NKOSINATHI MLAMBO, 1679 BLOCK H, SOSHANGUVE, South Africa ~72: AARON NKOSINATHI MLAMBO~

2021/03960 ~ Complete ~54:MINING METHOD ~71:PTRM PTY LTD, LEVEL 1, 50 ANGOVE ST, NORTH PERTH, WESTERN AUSTRALIA, 6006, AUSTRALIA, Australia ~72: CABASSI, Paul, Jason;MARDON, Christopher, George;MORROW, Fraser, Thomas, Robert;MORROW, Robert, John;THOMSON, Ross, Harpur~ 33:AU ~31:2018904379 ~32:16/11/2018

2021/03968 ~ Complete ~54:PROCESS AND DEVICE FOR ANAEROBIC PURIFICATION ~71:Paques I.P. B.V., Tjalke de Boerstrjitte 24, BALK 8561 EL, THE NETHERLANDS, Netherlands ~72: DE BRUIN, Sebastiaan Leonardo;FRIJTERS, Cornelia Theresia Maria Johanna~ 33:EP ~31:18215493.0 ~32:21/12/2018

2021/03975 ~ Complete ~54:METHODS OF TREATING DISEASE WITH MAGL INHIBITORS ~71:H. LUNDBECK A/S, Ottiliavej 9, 2500, Valby, Denmark ~72: CHANNING RODNEY BEALS;CHERYL A GRICE;DALLAS JONES;GARY PAUL O'NEILL;IAIN PETER FRASER;JACQUELINE LORAYNE BLANKMAN;JASON ROBERT CLAPPER;JOHN J.M WIENER~ 33:US ~31:62/772,554 ~32:28/11/2018

2021/03950 ~ Provisional ~54:A MEDICINAL PRESCRIPTION SYSTEM AND METHODOLOGY ~71:BOTANICAL RESOURCE HOLDINGS PROPRIETARY LIMITED, 1 Palamino Avenue, Somerset West, 7130, South Africa ~72: GARY JOHN BEHENNA;MARK KEMP;RICHARD PAUL DAVIES~

2021/03958 ~ Complete ~54:TESTING DEVICE FOR MECHANICAL PROPERTIES OF ANCHOR BODY UNDER IMPACT LOAD AND USING METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, ANHUI PROVINCE, People's Republic of China ~72: CHENGWEI LI;CHUANMING LI;DONGDONG PANG;DONGSHENG DENG;KANG ZHOU;NAN LIU;WENBAO SHI;XINGQIU PENG~

2021/03964 ~ Complete ~54:SEQUENTIAL MEASUREMENT OF STATUS OF LED LIGHTING AND OTHER APPARATUS CONNECTED TO AN ELECTRICAL POWER LINE AND DISPLAY OF THE STATUS AND THE EXACT GPS POSITION THEREOF ~71:MAGIĆ, Zvonko, Dravska 15, VARAŽDIN 42000, CROATIA, Croatia ~72: MAGIĆ, Zvonko~

2021/03952 ~ Complete ~54:A CATHODE MATERIAL OF LITHIUM/SODIUM ION BATTERY AND ITS PREPARATION METHOD ~71:Zhengzhou University Of Aeronautics, No. 2, University Middle Road, Erqi District, Zhengzhou City, Henan Province, People's Republic of China ~72: Dongxia Chen;Fanguang Zeng;Haibo Huo;Huali Ma;Linjie Fu;Mengjie Yang;Mingyu Li;Xianli Wang;Zhanjun Yu~ 33:CN ~31:202110546168.2 ~32:19/05/2021

2021/03967 ~ Complete ~54:HIGH REFRACTIVE INDEX COMPOSITIONS AND USES THEREOF ~71:PPG Industries Ohio, Inc., 3800 West 143rd Street, CLEVELAND 44111, OH, USA, United States of America ~72: HAY, Jeremy Jon;HEROLD, Robert D.~ 33:US ~31:62/781,344 ~32:18/12/2018;33:US ~31:62/931,235 ~32:06/11/2019

2021/03949 ~ Provisional ~54:EMBOSSSED HEAT EXCHANGER TUBE ~71:BOSCH MANAGEMENT SERVICES (PTY) LTD, 1 Holwood Park, 5 Canegate Road, La Lucia Office Estate, Kwazulu Natal, 4320, South Africa ~72: MEETHAN GOKOOL~

2021/03969 ~ Complete ~54:SYNTHESIS OF CONJUGATED DIENE PHEROMONES AND RELATED COMPOUNDS ~71:Provivi, Inc., 1701 Colorado Avenue, SANTA MONICA 90404, CA, USA, United States of America ~72: LEE, Choon Woo;ROZZELL, David;WAMPLER, Keith M.~ 33:US ~31:62/777,680 ~32:10/12/2018

2021/03956 ~ Complete ~54:MODEL FOR PREDICTION OF WATER INRUSH QUANTITY FROM COAL SEAM ROOF AQUIFER IN MINE BASED ON PLSR AND RBF NEURAL NETWORK ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Jiwen WU;Kai HUANG;Libin TANG;Ru HU;Wei LIU;Xiaorong ZHAI;Yaoshan BI;Zhangqi LI~

2021/03962 ~ Complete ~54:NOVEL COMPOSITION ~71:JAMES COOK UNIVERSITY, Townsville, Australia;PACIFIC BIOTECHNOLOGIES (AUSTRALIA) PTY LTD, 8/663 Victoria Street, Australia ~72: DE NYS, Rocky;MAGNUSSON, Marie Elisabeth~ 33:AU ~31:2018904642 ~32:06/12/2018

2021/04089 ~ Provisional ~54:ASG/DEVELOPMENT DRILL JIG ~71:DDT MECHANISED MINING SERVICES (PTY)LTD, 34 PANNERS LANE, 2 HUMWOOD LINKS, RIVERCLUB, South Africa ~72: DENNIS VAN NIEKERK~

2021/03978 ~ Complete ~54:USE OF LACTASE TO PROVIDE HIGH GOS FIBER LEVEL AND LOW LACTOSE LEVEL ~71:DUPONT NUTRITION BIOSCIENCES APS, Langebrogade 1, DK1411, Copenhagen K, Denmark ~72: COLLETTE LENTZ;JACOB FLYVHOLM CRAMER;KARINA HANSEN KJAER;TINA KROGH JENSEN~ 33:US ~31:62/774,476 ~32:03/12/2018

2021/03955 ~ Complete ~54:EASILY-OPERABLE DETACHABLE POSITIONING DEVICE ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Chao HU;Chuang JIANG;Xuexiang YU;Zhongchen GUO~

2021/03961 ~ Complete ~54:PHAGOCYTISABLE PARTICLE FOR USE IN THE TREATMENT OR PROPHYLAXIS OF CANCER ~71:NEOGAP THERAPEUTICS AB, c/o Center for Molecular Medicine, Karolinska sjukhuset L8:02, Sweden ~72: GRONLUND, Hans~ 33:GB ~31:1821205.0 ~32:24/12/2018

2021/03970 ~ Complete ~54:WIRELESS POSITIONING MODULE, WIRELESS POSITIONING CABLE AND WIRELESS POSITIONING CABLE SYSTEM ~71:CCTEG CHANGZHOU RESEARCH INSTITUTE, No. 1, Mushu Road, Zhonglou District, Changzhou, Jiangsu, 213000, People's Republic of China;TIANDI (CHANGZHOU) AUTOMATION CO., LTD., No. 219, Huanghe West Road, Xinbei District, Changzhou, Jiangsu, 213000, People's Republic of China ~72: BAO, Jianjun;CHEN, Kang;HU, Suiyan;HUO, Zhenlong;WANG, Jun~ 33:CN ~31:201811587729.8 ~32:25/12/2018

2021/03973 ~ Complete ~54:ANGPTL4 OLIGONUCLEOTIDES INFLUENCING THE REGULATION OF THE FATTY ACID METABOLISM ~71:LIPIGON PHARMACEUTICALS AB, Tvistevägen 48C, 90736, Umeå, Sweden ~72: ANNE SADEWASSER;FRANK JASCHINSKI;SVEN MICHEL~ 33:EP ~31:18206087.1 ~32:13/11/2018

2021/03976 ~ Complete ~54:IMMUNOGENIC COMPOSITIONS FOR TREATMENT OF HEPATITIS B
~71:VARIATION BIOTECHNOLOGIES INC., 310 Hunt Club Road East, Suite 201, Ottawa, Ontario, K1V 1C1,
Canada ~72: DAVID EVANDER ANDERSON;TANVIR AHMED~ 33:US ~31:62/760,439 ~32:13/11/2018

2021/03951 ~ Provisional ~54:SYSTEM FOR DEPLOYING A HYBRID BROADBAND DATA NETWORK USING
AN EXISTING ELECTRICAL WIRING INFRASTRUCTURE ~71:TAFUR CASTILLO, Alvaro Bernardo, 1 Kingsley
Place, 55 Oxford Road, Saxonwold, JOHANNESBURG 2196, Gauteng, SOUTH AFRICA, South Africa ~72:
TAFUR CASTILLO, Alvaro Bernardo~

2021/03965 ~ Complete ~54:BENZAMIDES OF PYRAZOLYL-AMINO-PYRIMIDINYL DERIVATIVES, AND
COMPOSITIONS AND METHODS THEREOF ~71:Lynk Pharmaceuticals Co. LTD., 291 Fucheng Road, Bldg 5-
4F, Hangzhou Economic & Technological Development Zone, HANGZHOU 310018, ZHEJIANG, CHINA
(P.R.C.), People's Republic of China ~72: LI, Xiaodong;VAZQUEZ, Michael Lawrence;WAN, Zhaokui~ 33:IB
~31:2018/121165 ~32:14/12/2018

2021/04022 ~ Provisional ~54:ACCESS TO THE LOWEST CONSUMER PRICE ~71:Dudzile Gladys Khanye,
1348 Kgoputso Street, Kwa-Xuman, 1808, South Africa;Favourite Vivienne Khanye, 15a Venus Road, South Africa
~72: Favourite Vivienne Khanye~

2021/03977 ~ Complete ~54:COMPOUNDS AND THEIR USE FOR THE TREATMENT OF ALPHA1-
ANTITRYPSIN DEFICIENCY ~71:Z FACTOR LIMITED, C/O The Cambridge Partnership Limited, The Dorothy
Hodgkin Building, Babraham Research Campus, Babraham, Cambridge, CB22 3AT, United Kingdom ~72: DAVID
JOHN FOX;JAMES ANDREW HUNTINGTON;NIGEL RAMSDEN~ 33:GB ~31:1820450.3 ~32:14/12/2018

2021/03972 ~ Complete ~54:UWB-BASED TERMINAL POSITIONING SCHEDULING METHOD ~71:CCTEG
CHANGZHOU RESEARCH INSTITUTE, No. 1, Mushu Road, Zhonglou District, Changzhou, Jiangsu, 213000,
People's Republic of China;TIANDI (CHANGZHOU) AUTOMATION CO., LTD., No. 219, Huanghe West Road,
Xinbei District, Changzhou, Jiangsu, 213000, People's Republic of China ~72: BAO, Jianjun;CHEN, Kang;HUO,
Zhenlong;JI, Lijia;WANG, Jun;WANG, Wei~ 33:CN ~31:201910315439.6 ~32:19/04/2019

2021/03985 ~ Complete ~54:AUTOMATIC DRILL HOLE LENGTH MEASURING DEVICE FOR DRILLING RIG
OF CHAIN FEEDING STRUCTURE AND USAGE METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND
TECHNOLOGY, No.168, Taifeng Street, Anhui Province, People's Republic of China ~72: CHUANMING
LI;DONGDONG PANG;GUOLIN ZHANG;KANG ZHOU;SHEN XI;YULIN DOU~

- APPLIED ON 6/10/2021 -

2021/03980 ~ Provisional ~54:REMOTE FINDER ~71:Dennis Cassim Mphoreng, 2179 Watsonia Street
eMalahleni 1035, South Africa;Dennis Cassim Mphoreng, 2179 Watsonia Street eMalahleni 1035, South Africa
~72: Dennis Cassim Mphoreng~

2021/03999 ~ Complete ~54:ANTAGONISTS ~71:KYMAB LIMITED, The Bennet Building (B930), Babraham
Research Campus, United Kingdom ~72: BRADLEY, Allan;CHEN, Li-Tzu;CHEN, Yen-Ju;HUANG, Yu-Hui;LEE, E-
Chiang;LIANG, Qi;LIOU, Li-Ying~ 33:GB ~31:1820687.0 ~32:19/12/2018

2021/04021 ~ Provisional ~54:CONNECT EXCHANGE ~71:Bomoka (Pty) Ltd, 411 Iwisa Street, Drieziek
Extension 2, Orange Farm,, South Africa;Lerato Gama, 411 Iwisa Street, Drieziek Extension 2, Orange Farm,,
South Africa ~72: Lerato Gama~

2021/04005 ~ Complete ~54:METHOD AND APPARATUS OF MODE- AND SIZE-DEPENDENT BLOCK-LEVEL
RESTRICTIONS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District,

SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/784,345 ~32:21/12/2018

2021/04018 ~ Complete ~54:GRIPPING DEVICE OF CATHODE PLATE ~71:SANMEN SANYOU TECHNOLOGY INC, TINGPANG INDUSTRIAL PARK, SANMEN COUNTY, People's Republic of China ~72: WU, JUNYI;WU, YONG;YAN, PAN;ZHAO, LEIZHEN;ZHOU, CHENGWU~ 33:CN ~31:201910243454.4 ~32:28/03/2021

2021/03982 ~ Provisional ~54:SINGLE COMPARTMENT ANAEROBIC DIGESTION (AD) REACTION CHAMBER ~71:UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: IJOMA, Grace Nkechinyere;MATAMBO, Tonderayi Sylvester;MUTUNGWAZI, Asheal;RASHAMA, Charles~

2021/03989 ~ Complete ~54:PHASE-CONJUGATING RETRODIRECTIVE CROSS-EYE RADAR JAMMING ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: DU PLESSIS, Warren~ 33:ZA ~31:2020/03364 ~32:05/06/2020

2021/03996 ~ Complete ~54:BRAKING AND LOCKING SYSTEM FOR A TREADMILL ~71:THE GIOVANNI PROJECT LLC, 6965 EL CAMINO REAL, SUITE 105-250, CARLSBAD, CALIFORNIA 92009, USA, United States of America ~72: FIMA, Giovanni, Raoul~ 33:US ~31:62/919,155 ~32:28/02/2019;33:US ~31:16/433,230 ~32:06/06/2019

2021/03991 ~ Complete ~54:COAL AND GANGUE IDENTIFICATION DEVICE AND COAL AND GANGUE SORTING SYSTEM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: GUO, YONGCUN;WANG, CHAO;YANG, KE;ZHANG, YONG;ZHOU, WEI;ZHU, HONGZHENG;ZHU, JINBO~ 33:CN ~31:202011209261.6 ~32:03/11/2020

2021/03992 ~ Complete ~54:ANTI-TAU ANTIBODIES AND USES THEREOF ~71:Eisai R&D Management Co., Ltd., 6-10 Koishikawa, 4-chome, Bunkyo-Ku, TOKYO 112-8088, JAPAN, Japan;UCL Business Ltd, The Network Building, 97 Tottenham Court Road, LONDON W1T 4TP, UNITED KINGDOM, United Kingdom ~72: AGARWALA, Kishan;AKASOFU, Shigeru;AOYAGI, Hirofumi;DE SILVA, Hettihewage Alfred Rohan;HASHIZUME, Yutaka;ROBERTS, Malcolm Ian;SPIDEL, Jared;STADDON, James Martin~ 33:US ~31:62/572,910 ~32:16/10/2017;33:US ~31:62/577,011 ~32:25/10/2017;33:US ~31:62/697,034 ~32:12/07/2018

2021/04001 ~ Complete ~54:UNIT FUEL CELL, FUEL CELL STACK AND BIPOLAR PLATE ASSEMBLY ~71:POWERCELL SWEDEN AB, Ruskvädersgatan 12, Sweden ~72: VELÉN, Robin~ 33:SE ~31:1930019-3 ~32:23/01/2019

2021/04002 ~ Complete ~54:CAPSULE FOR FOOD OR BEVERAGE PREPARATION COMPRISING AN OVERSIZED MEMBRANE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DOGAN, Nihan;MARVILLE, Fred;MCPOLAND, Karen~ 33:EP ~31:18207128.2 ~32:20/11/2018

2021/04009 ~ Complete ~54:SYSTEM AND METHOD FOR DYNAMICALLY DETECTING CATHODE PLATE FLATNESS ~71:SANMEN SANYOU TECHNOLOGY INC, Tingpang Industrial Park, Sanmen County, Taizhou, People's Republic of China ~72: GONG, Li;GU, Xiandai;WU, Junyi;ZHANG, Chi~ 33:CN ~31:201910339362.6 ~32:25/04/2019

2021/03988 ~ Complete ~54:METHOD FOR DETERMINING CONTENT OF IMPURITIES IN EPRISTERIDE TABLET BY HPLC ~71:Jiangsu Lianhuan Pharmaceutical Co., Ltd., No. 9, Jiankang First Road, Yangzhou Biological Health Industrial Park, Yangzhou City,, Jiangsu Province, 225127, People's Republic of China ~72: CHU, Qingsong;JIA, Zhixiang;NIU, Ben;ZHAO, Jie~ 33:CN ~31:202010545610.5 ~32:15/06/2020

2021/04016 ~ Complete ~54:VIDEO CODING COMPRISING UNIFORM TILE SPLIT WITH REMAINDER
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), , 16483, Stockholm, Sweden ~72: MARTIN
PETTERSSON;MITRA DAMGHANIAN;RICKARD SJÖBERG~ 33:US ~31:62/793,353 ~32:16/01/2019

2021/04003 ~ Complete ~54:TEMPERATURE CONTROL OF A CLIMATIC ZONE OF AN INSECT-BREEDING
FACILITY ~71:Ynsect, 1 Rue Pierre Fontaine, ÉVRY-COURCOURONNES CEDEX 91058, FRANCE,
France ~72: BERRO, Fabrice;CANITROT, Cyrille;CLESSE, Loic;DU JONCHAY, Thibault;ESCAROZ CETINA,
Arturo;SALA, François~ 33:FR ~31:1871610 ~32:20/11/2018

2021/03997 ~ Complete ~54:TREADMILL WITH LIGHTING AND SAFETY FEATURES ~71:THE GIOVANNI
PROJECT LLC, 6965 EL CAMINO REAL, SUITE 105-250, CARLSBAD, CALIFORNIA 92009, USA, United States
of America ~72: FIMA, Giovanni, Raoul~ 33:US ~31:62/919,155 ~32:28/02/2019;33:US ~31:16/418,234
~32:21/05/2019

2021/04010 ~ Complete ~54:LIGANDS FOR PRODUCTION OF 1-OCTENE IN CHROMIUM ASSISTED
ETHYLENE OLIGOMERIZATION PROCESS ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticlaan 1, 4612
PX, Bergen op Zoom, Netherlands ~72: ABDULAZIZ AL-NEZARI;ILIA KOROBKOV;KHALID ALBAHILY~ 33:US
~31:62/758,783 ~32:12/11/2018

2021/03983 ~ Provisional ~54:AN APPARATUS AND METHOD OF INDICATING A STANCE FOR A GOLFER
~71:BRITTNELL, Andrew Eugene, 33 Juanita Street, Sonheuwel, NELSPRUIT 1201, Mpumalanga, SOUTH
AFRICA, South Africa;PAUW, Jacobus Cornelis, 65 Talamatir Street, Sonheuwel, NELSPRUIT 1201,
Mpumalanga, SOUTH AFRICA, South Africa ~72: BRITTNELL, Andrew Eugene~

2021/03987 ~ Complete ~54:TWO-COMPONENT POLYURETHANE COMPOSITION AND ITS PREPARATION
METHOD, AND APPLICATION THEREOF ~71:Ningbo Baoting Biotechnology Co., Ltd, Jinguzhong Road 58#,
Yinzhou, Ningbo, Zhejiang Province, People's Republic of China ~72: BAI YUN;HE BIN;ZHU YABIN~

2021/03993 ~ Complete ~54:COAL-ROCK LIQUID-SOLID COUPLING LOADING EXPERIMENT DEVICE
~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's
Republic of China ~72: CHEN, Baobao;LI, Shaobo;WANG, Lei;ZHU, Chuanqi~

2021/04015 ~ Complete ~54:APPARATUS ~71:GREAT NORTH RESEARCH AND INNOVATION LTD, Sandgate
House, 102 Quayside, Newcastle upon Tyne, Tyne and Wear, NE1 3DX, United Kingdom ~72: DAN
HAWORTH;GEORGIOS GERARDOS;LEIGH SHELFORD;PAUL SCOTT;WILL HARRIS~ 33:GB ~31:1818478.8
~32:13/11/2018

2021/03984 ~ Provisional ~54:JOSHUA SMART MOBILE CHILLER ~71:IJERE JOSHUA IZUCHUKWU, NO 155
OLD ONITSHA ROAD, Nigeria ~72: IJERE JOSHUA IZUCHUKWU~

2021/03994 ~ Complete ~54:METHOD AND SYSTEM OF IDENTIFYING AND QUANTIFYING ANTIBODY
FRAGMENTATION ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown,
United States of America ~72: WANG, Shunhai;YAN, Yuetian~ 33:US ~31:62/793,004 ~32:16/01/2019

2021/03998 ~ Complete ~54:LUBRICATION OF A WHEEL SUPPORT ~71:PHILLIPS GLOBAL (PTY) LTD, 12 Dr
Mandela Drive, Vaalbank, South Africa ~72: PIENAAR, Abel, Albertus~ 33:ZA ~31:2018/08339 ~32:11/12/2018

2021/04017 ~ Complete ~54:AMYLOID PRECURSOR PROTEIN (APP) RNAI AGENT COMPOSITIONS AND
METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, United
States of America ~72: Adam CASTORENO;Jayaprakash NAIR;Kevin FITZGERALD;Kirk BROWN;Mangala,
Meenakshi SOUNDARAPANDIAN;Mark KEATING;Martin MAIER;Patrick HASLETT;Stuart MILSTEIN;Vasant

JADHAV~ 33:US ~31:62/781,774 ~32:19/12/2018;33:US ~31:62/862,472 ~32:17/06/2019;33:US
~31:62/928,795 ~32:31/10/2019

2021/04004 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR CONTROLLING
OR ENFORCING PERFORMANCE OF TRANSFERS CONDUCTED OVER A BLOCKCHAIN ~71:nChain
Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua
and Barbuda ~72: WRIGHT, Craig Steven~ 33:GB ~31:1820947.8 ~32:21/12/2018

2021/03981 ~ Provisional ~54:SOLAR POWERED DISH ~71:Dennis Cassim Mphoreng, 2179 Watsonia Street
eMalahleni 1035, South Africa;Dennis Cassim Mphoreng, 2179 Watsonia Street eMalahleni 1035, South Africa
~72: Dennis Cassim Mphoreng~

2021/04019 ~ Complete ~54:PROCESS FOR PREPARING HIGH STRENGTH CONCRETE USING NANO
TITANIUM DIOXIDE ~71:Arif, Mohammed, 301, Hadi Nagar, Dhorra, UP, India;Azam, Ameer, 48, Sagar Housing
Complex, Anoopshahar Road, PO: CDF, UP, India;Dev, Nirenrdra, Department of Civil Engineering, Delhi
Technological University, India;Rahman, Ibadur, 19, Tayyab Colony, New S.S. Nagar, UP, India ~72: Arif,
Mohammed;Azam, Ameer;Dev, Nirenrdra;Rahman, Ibadur~

2021/04006 ~ Complete ~54:COMPOSITIONS FOR DRG-SPECIFIC REDUCTION OF TRANSGENE
EXPRESSION ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor,
PHILADELPHIA 19104, PA, USA, United States of America ~72: HORDEAUX, Juliette;WILSON, James M.~
33:US ~31:62/783,956 ~32:21/12/2018;33:US ~31:62/924,970 ~32:23/10/2019;33:US ~31:62/934,915
~32:13/11/2019

2021/04008 ~ Complete ~54:FUSION PROTEIN CONSTRUCTS FOR COMPLEMENT ASSOCIATED DISEASE
~71:Admirx Inc., 400 Technology Square, CAMBRIDGE 02139, MA, USA, United States of America;Q32 Bio Inc.,
One Broadway, 11th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CARAVELLA, Justin
Andrew;CURTIS, Michael Steven;FAHNOE, Kelly C.;HOLERS, Vernon Michael;HUANG, Cheng Ran;KALLED,
Susan L.;STARK, Ellen Garber;STOREK, Michael;TAYLOR, Frederick Robbins;VIOLETTE, Shelia Marie~ 33:US
~31:62/778,014 ~32:11/12/2018

2021/04011 ~ Complete ~54:LIGANDS FOR PRODUCTION OF 1-HEXENE IN CHROMIUM ASSISTED
ETHYLENE OLIGOMERIZATION PROCESS ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticlaan 1, 4612
PX, Bergen op Zoom, Netherlands ~72: ABDULAZIZ AL-NEZARI;BALAMURUGAN VIDJAYACOMAR;ILIA
KOROBKOV;KHALID ALBAHILY~ 33:US ~31:62/758,809 ~32:12/11/2018

2021/04012 ~ Complete ~54:MATRIX-MEDIATED CELL CULTURE SYSTEM ~71:UNIVERSITY OF CAPE
TOWN, Lovers Walk, Rondebosch, Cape Town, 7701, South Africa ~72: DYLAN TROY STEVENS;EDWARD
PETER RYBICKI;SUSAN T L HARRISON~

2021/04014 ~ Complete ~54:DOCK1-INHIBITING COMPOUND AND USE THEREOF ~71:KYUSHU
UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, 744, Motooka, Nishi-ku, Fukuoka-shi, Fukuoka,
8190395, Japan ~72: KOUNOSUKE OISAKI;MOTOMU KANAI;RYOSUKE TSUTSUMI;TAKEHITO
URUNO;YOSHINORI FUKUI~ 33:JP ~31:2018-225753 ~32:30/11/2018

2021/03990 ~ Complete ~54:ENTERAL FEEDING DEVICES AND RELATED METHODS OF USE
~71:ALCRESTA THERAPEUTICS, INC., One Newton Executive Park, Suite 100, Newton, Massachusetts, 02462,
United States of America ~72: DAVID J BROWN;EDWARD S PARK;GRETA L LORING;KENNETH
GARY;MICHIEL CHRISTIAN ALEXANDER VAN VLIET;ROBERT GALLOTTO;WILLEM ROBERT KLAAS
SCHOEVAART~ 33:US ~31:62/241,608 ~32:14/10/2015;33:US ~31:15/291,530 ~32:12/10/2016

2021/03995 ~ Complete ~54:LOCKING AND BRAKING SYSTEMS FOR A TREADMILL ~71:THE GIOVANNI PROJECT LLC, 6965 EL CAMINO REAL, SUITE 105-250, CARLSBAD, CALIFORNIA 92009, USA, United States of America ~72: FIMA, Giovanni, Raoul~ 33:US ~31:62/919,155 ~32:28/02/2019;33:US ~31:16/418,234 ~32:21/05/2019;33:US ~31:PCT/US2019/033304 ~32:21/05/2019

2021/04000 ~ Complete ~54:ORGANOPHOSPHORUS-SUBSTITUTED COMPOUNDS AS C-MET INHIBITORS AND THERAPEUTIC USES THEREOF ~71:BETA PHARMA, INC., 1000 N. West Street, Suite 1200, United States of America ~72: COSTANZO, Michael, John;GRECO, Michael, Nicholas;GREEN, Michael, Alan;PENG, Jirong;ZHANG, Don~ 33:US ~31:62/779,960 ~32:14/12/2018

2021/04020 ~ Complete ~54:AN APPARATUS FOR TRANSPORTING CONSTRUCTION MATERIAL ~71:NALKO ENERGY AND RESOURCES (PTY) LTD, 89 PROFIT STREET, NORTHGATE, RANDBURG, GAUTENG, South Africa ~72: NONGE, Khathutshelo Octavius~ 33:ZA ~31:2020/01493 ~32:10/03/2020

2021/03986 ~ Complete ~54:DOWNHOLE WIND-DRIVEN WINCH AND REALIZATION METHOD THEREOF ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, People's Republic of China ~72: He Gang;Peng Jiecai;Xu Jiachang;Zhang Guisheng;Zhu Yanna~

2021/04007 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS OF BOUNDARY STRENGTH DERIVATION OF DEBLOCKING FILTER ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao~ 33:US ~31:62/776,491 ~32:07/12/2018;33:US ~31:62/792,380 ~32:14/01/2019

2021/04013 ~ Complete ~54:QUINT-FOCAL DIFFRACTIVE INTRAOCULAR LENS ~71:AAREN SCIENTIFIC INC., 1040 S Vintage Ave., Ontario, California, 91761, United States of America ~72: YUEAI LIU~ 33:US ~31:62/783,175 ~32:20/12/2018

- APPLIED ON 6/11/2021 -

2021/04029 ~ Complete ~54:RAD51 INHIBITORS ~71:CYTEIR THERAPEUTICS, INC., 128 Spring Street, Building A, Suite 510, United States of America ~72: CASTRO, Alfredo C.;MACLAY, Tyler;MCCOMAS, Casey Cameron;VACCA, Joseph~ 33:US ~31:62/556,763 ~32:11/09/2017;33:US ~31:62/711,959 ~32:30/07/2018

2021/04030 ~ Complete ~54:RECOMBINANT RHABDOVIRUS ENCODING FOR CCL21 ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany;VIRATHERAPEUTICS GMBH, Bundesstraße 27, Rum, Austria ~72: ERB, Klaus;ERLMANN, Patrik;MUELLER, Philipp;NOLDEN, Tobias;PARK, John, Edward;WOLLMANN, Guido~ 33:EP ~31:19153668.9 ~32:25/01/2019

2021/04043 ~ Complete ~54:IMPROVED SYNTHETIC METHODS OF MAKING FUSED HETEROCYCLIC COMPOUNDS AS OREXIN RECEPTOR MODULATORS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: DEPRÉ, Dominique Paul Michel;GALA, Dinesh;HUYGAERTS, Andy Josephina Joannes;MATCHA, Kiran;MOENS, Luc Jozef Raphael~ 33:US ~31:62/760,995 ~32:14/11/2018

2021/04048 ~ Complete ~54:ANTI-IL-17A ANTIBODY AND USE THEREOF ~71:Shanghai Junshi Biosciences Co., Ltd., Floor 13, Building 2, Nos. 36 And 58, Haiqu Road, Pilot Free Trade Zone, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China;Suzhou Junmeng Biosciences Co., Ltd., East Of Changan Road, Wujiang Economic and Technological Development Zone, JIANGSU 215002, CHINA (P.R.C.), People's Republic of China ~72: FENG, Hui;MENG, Dan;WU, Hai;YAO, Jian;YAO, Sheng~ 33:CN ~31:201811515045.7 ~32:12/12/2018

2021/04044 ~ Complete ~54:EXERCISE MACHINE CONTROLS ~71: Peloton Interactive, Inc., 125 W. 25th St., 11th Floor, NEW YORK 10001, NY, USA, United States of America ~72: EVANCHA, Betina;INTONATO, Joseph;LEE, Jooyoung;WILLHITE, Ashley~ 33:US ~31:16/217,548 ~32:12/12/2018

2021/04025 ~ Complete ~54:EPOXY RESIN FLAME-RETARDED NANOCOMPOSITES AND PREPARATION METHOD THEREOF ~71:WU, Zhenghuan, 905B, Lianhu Apartment, No. 2, Yi'an Street, Xianxi District, Chang'an Town, Dongguan City, People's Republic of China ~72: DU, Jin;FAN, Qixiang;GUO, Junxin;WU, Zhenghuan~

2021/04023 ~ Provisional ~54:SELECTING A DESIRED ITEM FROM A SET OF ITEMS ~71:SWIRL DESIGN (PTY) LTD, 11 Andmar, Stellenbosch, South Africa ~72: BOSHOFF, Hendrik Frans Verwoerd~

2021/04024 ~ Complete ~54:ANTI-FLOODING SAFETY EARLY WARNING DEVICE OF COAL MINE AND REALIZATION METHOD THEREOF ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, People's Republic of China ~72: He Gang;Zhang Guisheng;Zhang Xuesen;Zhu Yanna~

2021/04040 ~ Complete ~54:ANTI-VIRAL COMPOSITION ~71:BYOTROL PLC, Riverside Works, Collyhurst Road, United Kingdom ~72: BURNS, Lauren Mairead;EVANS, Huw;LUCK, Matias;MCINERNEY, Rose Elizabeth Piercy;PLUMMER, Christopher~ 33:GB ~31:1819849.9 ~32:05/12/2018

2021/04049 ~ Complete ~54:USES OF TRANSDERMAL GLOMERULAR FILTRATION RATE MEASUREMENT IN CONTINUOUS RENAL REPLACEMENT THERAPY ~71:MediBeacon Inc., 1100 Corporate Square Drive, Helix Center, Suite 175, ST. LOUIS 63132, MO, USA, United States of America ~72: DORSHOW, Richard B.;GOLDSTEIN, Stuart L.~ 33:US ~31:62/778,334 ~32:12/12/2018

2021/04047 ~ Complete ~54:SHIELDING FACILITY AND METHOD OF MAKING THEREOF ~71:Rad Technology Medical Systems, LLC, 20801 Biscayne Boulevard, Suite 403, AVENTURA 33180, FL, USA, United States of America ~72: AMBROZEWICZ, Pawel;FORD, John;JOHNSTON, Ron;KEPPEL, Cynthia;LANDAU, Eric;LEFKUS, John;OQUIST, Cheri~ 33:US ~31:62/779,822 ~32:14/12/2018

2021/04035 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PREPARING NUCLEIC ACID SEQUENCING LIBRARIES USING CRISPR/CAS9 IMMOBILIZED ON A SOLID SUPPORT ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, United Kingdom ~72: GORMLEY, Niall Anthony~ 33:US ~31:62/873,609 ~32:12/07/2019

2021/04041 ~ Complete ~54:PHARMACEUTICAL COMBINATION OF ANTI-CEACAM6 AND EITHER ANTI-PD-1 OR ANTI-PD-L1 ANTIBODIES FOR THE TREATMENT OF CANCER ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: B&H, Hans-Henning;BECKHOVE, Philipp;OFFRINGA, Rien;TRAUTWEIN, Mark;WILLUDA, J&rg~ 33:EP ~31:18206206.7 ~32:14/11/2018

2021/04026 ~ Complete ~54:COTTON APHID MONITORING METHOD AND SYSTEM BASED ON SPECTRAL IMAGING AND DEEP LEARNING ~71:Shihezi University, Beisi Road, Shihezi City, People's Republic of China ~72: GAO, Pan;LIN, Jiao;LV, Xin;XU, Wei;YAN, Tianying~

2021/04036 ~ Complete ~54:APPARATUS AND METHODS FOR MULTI-CHAMBER VAPORIZATION DEVICES WITH VAPORIZATION SUBSTANCE MIXING ~71:HEXO OPERATIONS INC., 3000 Solandt Road, Ottawa, Ontario, K2K 2X2, Canada ~72: MAX ALSAYAR;PATRICK WOODS~ 33:US ~31:62/768,315 ~32:16/11/2018

2021/04046 ~ Complete ~54:CRISPR SYSTEM BASED DROPLET DIAGNOSTIC SYSTEMS AND METHODS ~71:Massachusetts Institute of Technology, 77 Massachusetts Avenue, CAMBRIDGE 02139, MA, USA, United

States of America;President and Fellows of Harvard College, 17 Quincy Street, CAMBRIDGE 02138, MA, USA, United States of America;The Broad Institute, Inc., 415 Main Street, CAMBRIDGE 02142, MA, USA, United States of America;The General Hospital Corporation, 55 Fruit Street, BOSTON 02114, MA, USA, United States of America ~72: ACKERMAN, Cheri;BLAINEY, Paul;FREIJE, Catherine Amanda;HUNG, Deborah;KEHE, Jared;METSKEY, Hayden;MYHRVOLD, Cameron;SABETI, Pardis;THAKKU, Gowtham~ 33:US ~31:62/767,070 ~32:14/11/2018;33:US ~31:62/841,812 ~32:01/05/2019;33:US ~31:62/871,056 ~32:05/07/2019

2021/04033 ~ Complete ~54:CATALYST SYSTEM AND METHOD FOR THE CATALYTIC COMBUSTION OF AMMONIA TO FORM NITROGEN OXIDES IN A MEDIUM-PRESSURE SYSTEM ~71:HERAEUS DEUTSCHLAND GMBH & CO. KG, Heraeusstrasse 12 -14, Germany ~72: Dirk MAIER;Willi BOLL~ 33:EP ~31:19151608.7 ~32:14/01/2019

2021/04051 ~ Complete ~54:TAB PRESS AND METHOD OF MARKING INDICIA ON TAB STOCK ~71:CROWN PACKAGING TECHNOLOGY, INC., 11535 South Central Avenue, United States of America ~72: RAMSEY, Chris~ 33:GB ~31:1818387.1 ~32:12/11/2018

2021/04027 ~ Complete ~54:LIPSTICK-TYPE OINTMENT FOR TREATING SKIN INFLAMMATION AND PREPARATION METHOD ~71:Shandong Jianzhu University, No. 1000, Fengming Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: Su Beile;Su Yunqiao;Zhang Lili~

2021/04037 ~ Complete ~54:APPARATUS AND METHODS FOR MULTI-CHAMBER, MULTI-ATOMIZER VAPORIZATION DEVICES ~71:HEXO OPERATIONS INC., 3000 Solandt Road, Ottawa, Ontario, K2K 2X2, Canada ~72: GUY DEGRACE;MAX ALSAYAR;PATRICK WOODS~ 33:US ~31:62/768,309 ~32:16/11/2018

2021/04042 ~ Complete ~54:CONTROL OF TRACE METALS DURING PRODUCTION OF ANTI-CD38 ANTIBODIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: LARMORE, Nicole;RAMANATHAN, Balasubramanian;YEAGER, Richard~ 33:US ~31:62/760,782 ~32:13/11/2018

2021/04028 ~ Complete ~54:GASKET FOR AN ALUMINIUM FRAME ARRANGEMENT ~71:Monapp (Pty) Ltd., 6 Falkirk Road, Extension 12, BENONI 1500, Gauteng, SOUTH AFRICA, South Africa ~72: MANS, Albert Johan~ 33:ZA ~31:2020/01558 ~32:12/03/2020

2021/04032 ~ Complete ~54:STABLE SOLID DISPERSION OF A B-RAF KINASE DIMER INHIBITOR, METHODS OF PREPARATION, AND USES THEREFORE ~71:BEIGENE, LTD., c/o Mourant Ozannes Corporate Services (Cayman) Limited, 94 Solaris Avenue, Camana Bay, Cayman Islands ~72: SUN, Huangbin;ZHANG, Guoliang;ZHOU, Changyou~ 33:CN ~31:PCT/CN2019/073254 ~32:25/01/2019;33:CN ~31:PCT/CN2019/095227 ~32:09/07/2019

2021/04039 ~ Complete ~54:DRUG DELIVERY SYSTEM FOR ULTRA-LOW DOSE ESTROGEN COMBINATIONS AND METHODS AND USES THEREOF ~71:LUPIN INC., 111 S. Calvert Street, Harborplace Tower, 21st Floor Baltimore, Maryland, 21202, United States of America ~72: GREGORY KAUFMAN;JAMES GAREGNANI;RICHARD HOLL;VINITA GUPTA~ 33:US ~31:62/778,090 ~32:11/12/2018

2021/04031 ~ Complete ~54:ELECTROPHOTOGRAPHIC IMAGE FORMING DEVICE AND CARTRIDGE ~71:CANON KABUSHIKI KAISHA, 30-2, Shimomaruko 3-chome, Ohta-ku, Japan ~72: EGAMI, Yasuyuki;FUKUI, Yuichi;KAWANAMI, Takeo;NISHIDA, Shinichi;TOBA, Shinjiro~ 33:JP ~31:2019-050356 ~32:18/03/2019;33:JP ~31:2019-050357 ~32:18/03/2019

2021/04038 ~ Complete ~54:SINGLE DOSE PACKAGE WITH APPLICATOR ~71:V-SHAPES S.R.L., Via Persicetana, 20/B, 40012, Calderara di Reno, Italy ~72: JESPER ERLAND GUSTAVSSON~ 33:IT ~31:102019000001235 ~32:28/01/2019

2021/04045 ~ Complete ~54:MULTIPLEXING HIGHLY EVOLVING VIRAL VARIANTS WITH SHERLOCK DETECTION METHOD ~71:Massachusetts Institute of Technology, 77 Massachusetts Avenue, CAMBRIDGE 02139, MA, USA, United States of America;President and Fellows of Harvard College, 17 Quincy Street, CAMBRIDGE 02138, MA, USA, United States of America;The Broad Institute, Inc., 415 Main Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: FREIJE, Catherine Amanda;METSKY, Hayden;MYHRVOLD, Cameron;SABETI, Pardis~ 33:US ~31:62/767,076 ~32:14/11/2018

2021/04050 ~ Complete ~54:ACTIVE ESTER DERIVATIVES OF TESTOSTERONE, COMPOSITIONS AND USES THEREOF ~71:ACERUS BIOPHARMA INC., 2486 Dunwin Drive, Mississauga, Ontario L5L 1J9, Canada ~72: BRYSON, Nathan;SHARMA, Avinash Chander~ 33:US ~31:62/779,854 ~32:14/12/2018

2021/04034 ~ Complete ~54:NUCLEIC ACID LIBRARY PREPARATION USING ELECTROPHORESIS ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, United Kingdom ~72: GORMLEY, Niall Anthony~ 33:US ~31:62/873,603 ~32:12/07/2019

- APPLIED ON 6/14/2021 -

2021/04064 ~ Complete ~54:R-TYPE PYRIDYLOXYCARBOXYLIC ACID, SALT AND ESTER DERIVATIVE THEREOF, AND PREPARATION METHOD THEREFOR, AND HERBICIDAL COMPOSITION AND APPLICATION THEREOF ~71:QINGDAO KINGAGROOT CHEMICAL COMPOUND CO., LTD., No.53, Qinglonghe Road, Huangdao District, People's Republic of China ~72: CUI, Qi;HUA, Rongbao;LIAN, Lei;PENG, Xuegang;ZHANG, Jingyuan~ 33:CN ~31:201811613197.0 ~32:27/12/2018

2021/04072 ~ Complete ~54:SECURING DEVICE ~71:SIMPLE STRAP LLC, P.O. Box 241051, Honolulu, Hawaii, 96821, United States of America ~72: BENJAMIN KOMER;CAMERON SMITH;JONATHAN F EVEREST~ 33:US ~31:62/768,881 ~32:17/11/2018;33:US ~31:16/544,514 ~32:19/08/2019

2021/04075 ~ Complete ~54:PLANT AND METHOD FOR ACCUMULATION OF ENERGY IN THERMAL FORM ~71:MAGALDI POWER S.P.A., Piazza di Pietra 26, 00186, Roma RM, Italy ~72: FULVIO BASSETTI;MARIO MAGALDI~ 33:IT ~31:102018000021301 ~32:28/12/2018;33:IT ~31:102019000007416 ~32:28/05/2019

2021/04053 ~ Provisional ~54:RP MONITORING SAFETY AND CONSUMPTION OF LPG CYLINDERS ~71:Raruca Pauna, 47 Beryl Street, South Africa ~72: Raruca Pauna~

2021/04055 ~ Provisional ~54:JUNO JUMPSUIT ~71:Jessica Gounden, 51 Rickben crescent Mayville, South Africa ~72: Jessica Gounden~

2021/04059 ~ Complete ~54:AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER ~71:ZHEUNG, Gordon, Unit 18 Riverclub Mews, 7 Sycamore Avenue, Riverclub, SANDTON 2149, Gauteng, SOUTH AFRICA, South Africa ~72: ZHEUNG, Gordon~ 33:ZA ~31:2017/06724 ~32:06/10/2017

2021/04083 ~ Complete ~54:VIRAL INACTIVATION METHODS FOR CONTINUOUS MANUFACTURING OF ANTIBODIES ~71:Bayer HealthCare, LLC, 100 Bayer Boulevard, WHIPPANY 07981, NJ, USA, United States of America ~72: LEE, Janice Hsiu Mei;LIU, Shengjiang;ZOU, June~ 33:US ~31:62/767,652 ~32:15/11/2018

2021/04068 ~ Complete ~54:METHODS AND INSTALLATIONS FOR PRODUCING A BIAXIALLY ORIENTED TUBE FROM THERMOPLASTIC MATERIAL ~71:RPFLOW R&D B.V., 13, Rollepaal, Netherlands ~72:

MEIER, Gerrit Lucas;RIJNHART, Nicolaas Wilhelmus Hendrikus~ 33:NL ~31:2022290 ~32:21/12/2018;33:NL ~31:2022421 ~32:18/01/2019

2021/04073 ~ Complete ~54:INTEGRATION OF FERMENTATION AND GASIFICATION ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: ALLAN HAIMING GAO;ROBERT JOHN CONRADO~ 33:US ~31:62/769,043 ~32:19/11/2018;33:US ~31:62/779,696 ~32:14/12/2018

2021/04081 ~ Complete ~54:SUSCEPTOR ARRANGEMENT FOR INDUCTION-HEATED AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: SUR, Rajesh~ 33:US ~31:16/260,712 ~32:29/01/2019

2021/04087 ~ Complete ~54:WEAR MEMBER AND WEAR ASSEMBLY ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: ALBERS, Nicholas A.;AMES, Jared R.;CROWE, Michael D.;DENGEL, Joseph E.~ 33:US ~31:62/783,057 ~32:20/12/2018

2021/04054 ~ Provisional ~54:SICEL IMPILO ROAD SAFETY SOLUTION ~71:Muzikayifani Emmanuel Dhlomo, 2 Leonard Street, 4 Leonard Heights, Kenilworth, South Africa;Muzikayifani Emmanuel Dhlomo, 2 Leonard Street, 4 Leonard Heights, Kenilworth, South Africa ~72: Muzikayifani Emmanuel Dhlomo~

2021/04061 ~ Complete ~54:ROLLER TYPE CAGE EAR CHARGING AND GENERATING SET ~71:Anhui University of Science and Technology, 168 Taifeng street, Huainan city, People's Republic of China ~72: CHEN, Yingdong;FU, Junjie;GAO, Jian;JIA, Shilin;RUAN, Xueyun;SONG, Yuzhong;WEI, Yue;YANG, Zheng~

2021/04066 ~ Complete ~54:NF SERVICE CONSUMER RESTART DETECTION USING DIRECT SIGNALING BETWEEN NFS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: LU, Yunjie;XU, Wenliang;YANG, Yong~

2021/04084 ~ Complete ~54:GRAPHENE-OXIDE GRAFTED PBO (ZYLON®) FIBERS; METHOD FOR PRODUCTION AND APPLICATIONS TO AIRSHIP HULLS AND LIGHTER THAN AIR VEHICLES ~71:SCEYE SA, Place Saint-François 1, LAUSANNE 1003, SWITZERLAND, Switzerland ~72: FILLETER, Tobin;KIM, David;PARAMBATH MUNDAYODAN, Sudeep;VESTERGAARD FRANDSEN, Mikkel~ 33:US ~31:62/771,224 ~32:26/11/2018

2021/04067 ~ Complete ~54:HINGE ARRANGEMENT FOR A SWITCH CABINET AND A CORRESPONDING METHOD ~71:RITTAL GMBH & CO. KG, Auf dem Stadelberg, Germany ~72: BÄCKER, UMER, Carsten;HERR, Jacob~ 33:DE ~31:10 2019 103 997.5 ~32:18/02/2019

2021/04080 ~ 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

2021/04085 ~ Complete ~54:SECURING ELEMENT ~71:Hilti Aktiengesellschaft, Feldkircherstrasse 100, SCHAAN 9494, LIECHTENSTEIN, Liechtenstein ~72: BEAUVAIS, Simon;GUELTEKIN, Furkan;HAAG, Stefan;SCHULTE SUEDHOFF, Eric~ 33:EP ~31:18214539.1 ~32:20/12/2018

2021/04056 ~ Provisional ~54:TRAVEL BOOKING AND MANAGING METHOD AND SYSTEM ~71:GRABA GLOBAL (PTY) LTD, 36 Allen Road, GLEN AUSTIN, Midrand 1685, Gauteng, SOUTH AFRICA, South Africa ~72: Charalambous, Dorin~

2021/04076 ~ Complete ~54:HEPATITIS B VIRUS VACCINE AND USES THEREOF ~71:JRHS THERAPEUTICS INC., 7 Fengxian East Road, No 231, Building 1 Haidian, District Beijing, 10094, People's Republic of China ~72: MEIJIA YANG;ZHUANG SU~ 33:US ~31:62/778,549 ~32:12/12/2018

2021/04086 ~ Complete ~54:TIM-3 ANTIBODIES AND COMBINATIONS WITH OTHER CHECKPOINT INHIBITORS FOR THE TREATMENT OF CANCER ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: KONERU, Mythili;VELEZ DE MENDIZABAL CASTILLO, Maria de las Nieves~ 33:US ~31:62/791,077 ~32:11/01/2019

2021/04060 ~ Complete ~54:AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER ~71:ZHEUNG, Gordon, Unit 18 Riverclub Mews, 7 Sycamore Avenue, Riverclub, SANDTON 2149, Gauteng, SOUTH AFRICA, South Africa ~72: ZHEUNG, Gordon~ 33:ZA ~31:2017/06724 ~32:06/10/2017

2021/04063 ~ Complete ~54:PPM CODE GENERATION DEVICE FOR MINER PHYSICAL SIGN DETECTION VLC SYSTEM ~71:Anhui University of Science and Technology, 168 Taifeng street, Huainan city, People's Republic of China ~72: CAO, Zhenguan;HAN, Tao;HU, Feng;HUANG, Yourui;LIANG, Zhe;LING, Liuyi;WANG, Chengjun;XU,Shanyong;ZHOU, Mengran~

2021/04071 ~ Complete ~54:MANUFACTURING METHODS FOR LONG-TERM STABILIZATION IN OVERALL THERMAL CONDUCTION OF BLOCK COOLERS WITH CAST-IN COOLANT PIPES ~71:MACRAE TECHNOLOGIES, INC., 1000 Silver Maple Lane, United States of America ~72: Allan J. MACRAE~ 33:US ~31:PCT/US2019/038752 ~32:24/06/2019;33:US ~31:16/712,912 ~32:12/12/2019

2021/04074 ~ Complete ~54:ANODE FOR ALUMINIUM ELECTROLYSIS ~71:R + D CARBON LTD, Route du Moulin 44 , 3977, Granges, Switzerland ~72: MARKUS MEIER~ 33:CH ~31:1569/18 ~32:19/12/2018

2021/04077 ~ Complete ~54:COMPOSITIONS FOR INCREASING HALF-LIFE OF A THERAPEUTIC AGENT IN CANINES AND METHODS OF USE ~71:INVTX INC., 201 Washington Street, Boston, Massachusetts, 02108, United States of America ~72: BRETT CHEVALIER;JUERGEN HORN;MADHUSUDAN NATARAJAN;WILLIAM BRONDYK~ 33:US ~31:62/788,035 ~32:03/01/2019

2021/04078 ~ Complete ~54:A SPREADABLE FOOD PRODUCT ~71:THE PRINCETON GROUP INC - C40917, Richards' House, #3 Church Street, Basseterre, St. Kitts, W.I., Saint Kitts and Nevis ~72: MARK ANTHONY HANNA;SAMUEL BENG TEW~ 33:GB ~31:1819252.6 ~32:27/11/2018

2021/04057 ~ Provisional ~54:ACTIVE LAYER OF AN ELECTRODE, SURFACE MODIFIED ELECTRODE, METHOD OF MANUFACTURING A SURFACE MODIFIED ELECTRODE ~71:SOLZEN ENERGY (PTY) LTD., Unit 80, Franklin on 8th,, No. 19 Eighth Street, Noordwyk, MIDRAND 1687, Gauteng, SOUTH AFRICA, South Africa ~72: JANSEN VAN NIEUWENHUIZEN, André~

2021/04088 ~ Complete ~54:ATTACHMENT OF A FABRIC SLEEVE TO A COMMUNICATIONS CABLE ~71:WESCO Equity Corporation, 225 West Station Square Drive, Suite 700, PITTSBURGH 15219-1122, PA, USA, United States of America ~72: ALLEN, Jerry L.~ 33:US ~31:62/798,734 ~32:30/01/2019;33:US ~31:16/707,053 ~32:09/12/2019

2021/04065 ~ Complete ~54:RECYCLABLE PACKAGING LAMINATE HAVING A GOOD BARRIER EFFECT AND LOW DENSITY, AND METHOD FOR THE PRODUCTION THEREOF ~71:CONSTANTIA PIRK GMBH & CO. KG, PIRKMÜHLE 14-16, 92712 PIRK, GERMANY, Germany ~72: GREFENSTEIN, Achim;LAMTIGUI, Thami~

2021/04222 ~ Provisional ~54:BETSURANCE BUSINESS MODEL ~71:MAKHAZA GEORGE MNGUNI, 2001 SECTION A, KWAGGAFONTEIN,, South Africa ~72: MNGUNI MAKHAZA GEORGE~

2021/04079 ~ Complete ~54:MOVING IMAGE ENCODING DEVICE, MOVING IMAGE ENCODING METHOD, MOVING IMAGE ENCODING PROGRAM, MOVING IMAGE DECODING DEVICE, MOVING IMAGE DECODING METHOD, AND MOVING IMAGE DECODING PROGRAM ~71:JVCKENWOOD CORPORATION, 3-12, Moriyacho, Kanagawa-ku, Yokohama-shi Kanagawa, 2210022, Japan ~72: HIDEKI TAKEHARA;HIROYA NAKAMURA;HIROYUKI KURASHIGE;SATORU SAKAZUME;SHIGERU FUKUSHIMA;TORU KUMAKURA~ 33:JP ~31:2018-247405 ~32:28/12/2018;33:JP ~31:2019-082763 ~32:24/04/2019

2021/04052 ~ Provisional ~54:AUTOMOTIVE BROKERAGE SERVICE ~71:Dumisa Njikelana, NO 50 ST JOHNS ROAD, HOUGHTON ESTATE, South Africa ~72: Dumisa Njikelana~ 33:ZA ~31:2021/0633 ~32:13/06/2021

2021/04069 ~ Complete ~54:NOVEL FOLR1 SPECIFIC BINDING PROTEINS FOR CANCER DIAGNOSIS AND TREATMENT ~71:NAVIGO PROTEINS GMBH, Heinrich Damerow Strasse. 1, Germany ~72: BOSSE-DOENECKE, Eva;FIEDLER, Erik;GLOSER, Manja;HAUPTS, Ulrich~ 33:EP ~31:18213661.4 ~32:18/12/2018;33:EP ~31:19160572.4 ~32:04/03/2019

2021/04082 ~ Complete ~54:ENDOSPORE DISPLAY PLATFORMS, PRODUCTS AND METHODS ~71:Bayer CropScience LP, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: ALLY, Dilara;CURTIS, Damian;FICARRA, Florencia A.;GOLOMB, Benjamin L.;SALAMZADE, Rauf;TIPTON, Kyle~ 33:US ~31:62/767,997 ~32:15/11/2018;33:US ~31:62/768,063 ~32:15/11/2018;33:US ~31:62/768,077 ~32:15/11/2018

2021/04058 ~ Complete ~54:AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER ~71:ZHEUNG, Gordon, Unit 18 Riverclub Mews, 7 Sycamore Avenue, Riverclub, SANDTON 2149, Gauteng, SOUTH AFRICA, South Africa ~72: ZHEUNG, Gordon~ 33:ZA ~31:2017/06724 ~32:06/10/2017

2021/04062 ~ Complete ~54:IOT (INTERNET OF THINGS)-BASED INTELLIGENT GARBAGE CLASSIFICATION CHAMBER ~71:Anhui University of Science and Technology, 168 Taifeng street, Huainan city, People's Republic of China ~72: CHEN, Yingdong;FU, Junjie;GAO, Jian;JIA, Shilin;RUAN, Xueyun;SHI, Jincheng;SONG, Yuzhong;YANG, Zheng;ZHANG, Zhu;ZHAO, Bao~

2021/04070 ~ Complete ~54:FUNCTIONALIZED HETEROCYCLES AS ANTIVIRAL AGENTS ~71:ENANTA PHARMACEUTICALS, INC., 500 ARSENAL STREET, WATERTOWN, MASSACHUSETTS 02472, USA, United States of America ~72: BARTLETT, Samuel;CHONG, Katherine;DAVIS, Dexter;KENTON, Nathaniel;OR, Yat, Sun;PANARESE, Joseph~ 33:US ~31:62/770,428 ~32:21/11/2018;33:US ~31:62/884,486 ~32:08/08/2019

- APPLIED ON 6/15/2021 -

2021/04098 ~ Complete ~54:METHOD FOR SIMULATING AND MONITORING LATERAL FORCE ON ROADSIDE BACKFILL BODY OF GOB SIDE ENTRY RETAINING IN FILLING MINING ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Jiqiang ZHANG;Ke YANG;Lichao CHENG;Xiang HE;Xinwang LI;Xinyuan ZHAO;Yiling QIN;Zhen WEI~

2021/04105 ~ Complete ~54:FIBRE COMPOSITION, USE OF SAID COMPOSITION AND ARTICLE COMPRISING SAID COMPOSITION ~71:SUZANO S.A., Avenida Professor Magalhães Neto, nº186; 1.752, 10º andar, salas 1010 e 1011, 41810-012 Pituba, Salvador, Bahia, Brazil ~72: ELENICE PEREIRA MAIA;FABIO CARUCCI FIGLIOLINO~ 33:BR ~31:BR 10 2018 075755 5 ~32:11/12/2018

2021/04110 ~ Complete ~54:TREATMENT OF MEDICATION OVERUSE HEADACHE USING ANTI-CGRP OR ANTI-CGRP-R ANTIBODIES ~71:H. LUNDBECK A/S, Othilievej 9, 2500, Valby, Denmark ~72: BARBARA SCHAEFFLER;JEFFREY T.L SMITH;JOSEPH HIRMAN;LAHAR MEHTA;ROGER K CADY~ 33:US ~31:62/789,828 ~32:08/01/2019;33:US ~31:62/840,967 ~32:30/04/2019;33:US ~31:62/841,585 ~32:01/05/2019;33:US ~31:62/872,983 ~32:11/07/2019

2021/04114 ~ 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

2021/04128 ~ Complete ~54:METHOD FOR GOVERNING SPONTANEOUS COMBUSTION OF REMAINING COAL IN GOB-SIDE ENTRY RETAINING GOAF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168 Taifeng Street, Huainan City, People's Republic of China ~72: BIAN, Yunpeng;KUAI, Duolei;SHU, Senhui;SUN, Yue;WU, Wenjing;YANG, Mengdan;ZHANG, Leilin~ 33:CN ~31:202011595121.7 ~32:29/12/2020

2021/04095 ~ Complete ~54:UNDERGROUND GROUTING DRILL PIPE IN COAL MINE AND USE METHOD THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Litong DOU;Shuai LIU;Xiang HE;Xinyuan ZHAO;Zhen WEI~

2021/04108 ~ Complete ~54:SAVOURY COMPOSITION ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: ANJA KUNKEL;GILA SEEWI;LUIGI CAROLA;REGINE WEIMAR;TANJA GRUDKE-KATSCHUS~ 33:EP ~31:18214406.3 ~32:20/12/2018

2021/04112 ~ Complete ~54:15-PGDH INHIBITOR ~71:Kyorin Pharmaceutical Co., Ltd., 6, Kanda Surugadai 4-chome, Chiyoda-ku, TOKYO 1018311, JAPAN, Japan ~72: KURASAKI, Haruaki;SAITO, Yoshifumi;SETO, Shigeki;YAMADA, Hitomi~ 33:JP ~31:2019-000915 ~32:08/01/2019

2021/04117 ~ Complete ~54:MULTILAYER SYSTEM CONSISTING OF AT LEAST THREE POLYESTER LAYERS, PRODUCTION AND USE THEREOF ~71:LANXESS Deutschland GmbH, Kennedyplatz 1, KÖLN 50569, GERMANY, Germany ~72: LAUFER, Wilhelm~ 33:EP ~31:18212886.0 ~32:17/12/2018

2021/04096 ~ Complete ~54:SYNCHRONOUS JACKING EQUIPMENT FOR DISMANTLING CEMENT CONCRETE PAVING SLABS ~71:RESEARCH INSTITUTE OF HIGHWAY MINISTRY OF TRANSPORT, No.8, Xitucheng Road, Haidian District, Beijing, 100088, People's Republic of China ~72: He zhe;Li lihui;Li sili;Quan lei;Tian bo;Xie jinde;Zhang panpan~

2021/04099 ~ Complete ~54:SEWAGE TREATMENT EQUIPMENT ~71:YANTAI BOHAO INFORMATION TECHNOLOGY CO., LTD, Building 1, No. 5 Wanshoushan Road, Economic and Technological Development Zone, Shandong Province, People's Republic of China;ZHANG, Yiyun, Building 1, No. 5 Wanshoushan Road, Economic and Technological Development Zone, Shandong Province, People's Republic of China ~72: LV, Liping;ZHANG, Feifei;ZHANG, Yiyun~

2021/04103 ~ Complete ~54:METHOD FOR PRODUCING A WELDED STEEL BLANK AND ASSOCIATED WELDED STEEL BLANK ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Cristian ALVAREZ;Francis SCHMIT;Ivan VIAUX;Lucille GOUTON;Maria POIRIER;Thierry DAVID~ 33:IB ~31:PCT/IB2018/060585 ~32:24/12/2018

2021/04109 ~ Complete ~54:INHIBITORS OF FIBROBLAST ACTIVATION PROTEIN ~71:PRAXIS BIOTECH LLC, 1700 Owens Street, Suite 515, San Francisco, California, 94158, United States of America ~72: BRAHMAM PUJALA;DAYANAND PANPATIL;GONZALO ANDRÉS URETA DÍAZ;SEBASTIAN

BELMAR;SEBASTIAN BERNALES~ 33:US ~31:62/788,722 ~32:04/01/2019;33:US ~31:62/863,853
~32:19/06/2019

2021/04111 ~ Complete ~54:HEAT TRANSFER DEVICE ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: ERASMUS, Derwalt Johannes;LUBKOLL, Matti;MCDUGALL, David;VON BACKSTRÖM, Theodor Willem (deceased)~ 33:ZA ~31:2018/08340 ~32:11/12/2018

2021/04113 ~ Complete ~54:INTEGRATED PASSIVE REACTOR SYSTEM ~71:Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., No. 29 Hongcao Road, Xuhui District, SHANGHAI 200233, CHINA (P.R.C.), People's Republic of China ~72: CAO, Kemei;CHEN, Yu;LIU, Zhan;WANG, Haitao;YAN, Jinquan;YANG, Bo;ZHENG, Mingguang~ 33:CN ~31:201911227935.2 ~32:04/12/2019

2021/04118 ~ Complete ~54:OIL FILTER FOR A MOTOR VEHICLE AND FILTER CARTRIDGE FOR AN OIL FILTER ~71:Daimler AG, Mercedesstraße 120, STUTTGART 70372, GERMANY, Germany ~72: LE CLECH, Lionel;SANDER, Markus;SCHUMACHER, Eric~ 33:DE ~31:10 2018 009 928.9 ~32:17/12/2018

2021/04119 ~ Complete ~54:SYSTEM AND METHOD FOR REALIZING CONTINUOUS ADDITION OF SAND INTO PRE-MIXED ABRASIVE WATER JET BY HIGH-PRESSURE MORTAR PUMP ~71:HENAN POLYTECHNIC UNIVERSITY, 2001 Century Avenue, High-Tech Zone Jiaozuo, Henan, 454003, People's Republic of China ~72: LI, Dongyin;LI, Huamin;LI, Xiaojun;TONG, Jinglin;WANG, Wen;XIONG, Zuqiang;YAO, Yuanhang;YUAN, Ruifu~ 33:CN ~31:201910486799.2 ~32:05/06/2019

2021/04093 ~ Provisional ~54:CHICKEN COOP ARRANGEMENT ~71:SG ENGINEERING SOLUTIONS (PTY) LTD., 663 Van Gogh Crescent, MORELETA PARK, Pretoria 0044, Gauteng, SOUTH AFRICA, South Africa ~72: CASTLE, Shaun Peter;KHAN, Ilyas Hassan;ROBINSON, Gavin Stuart~

2021/04104 ~ Complete ~54:PROCESS FOR PRODUCING OILS AND DEFATTED MEAL BY MEANS OF SOLID/LIQUID EXTRACTION ~71:PENNAKEM EUROPA, 224 avenue de la Dordogne, Zone d'Entreprise du Nord Gracht, 59640, Dunkerque, France ~72: ANNE-SYLVIE FABIANO TIXIER;FARID CHEMAT;KARINE RUIZ;LAURENCE JACQUES;NORBERT PATOILLARD;VINCENT RAPINEL~ 33:FR ~31:18 73103
~32:17/12/2018

2021/04097 ~ Complete ~54:BICYCLIC COMPOUNDS FOR USE AS RIP1 KINASE INHIBITORS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: CHEN, Huifen;DANIELS, Blake;HAMILTON, Gregory;PATEL, Snahel;STIVALA, Craig;ZHAO, Guiling~ 33:US
~31:62/570,892 ~32:11/10/2017

2021/04102 ~ Complete ~54:PLATE BETWEEN RING ASSEMBLIES OF A RING SEAL SYSTEM ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: ELLMANN, Thomas;HAKES, David;JONES, Benjamin;PITMAN, Jacob~ 33:US ~31:16/222,502 ~32:17/12/2018

2021/04120 ~ Provisional ~54:DIGITAL WALLET FOR PUBLIC TRANSPORT USE AND FOR SCHOOL LEARNERS POCKET/LUNCH MONEY ~71:BOIPELO NELLY MOTSHABI, 2910 Unit 9, South Africa ~72: BOIPELO NELLY MOTSHABI~

2021/04094 ~ Complete ~54:VOLUME DETECTION DEVICE AND DETECTION METHOD ~71:Beijing Building Research Institute Co., Ltd. of CSCEC, Room 403, Floor 4, Building 3, Yard 3, Zhonghe Road, Fengtai District, Beijing, People's Republic of China;Beijing No.6 Construction Engineering Quality Test Department Co., Ltd, Room 305, Building 14, No.1 A Xinhua Road, Nanyuan, Fengtai District, Beijing, People's Republic of China;China Construction First Group Corporation Limited, 52 West Fourth Ring South Rd, Fengtai District,

Beijing, People's Republic of China ~72: Chen Kang;Hu Zhigang;Li Hefei;Tang Baohua;Wang Changjun;Wang Xianzhang;Xu Dandan;Zhang Xuewei~

2021/04115 ~ Complete ~54:URSODEOXYCHOLIC ACID-CONTAINING AGENT FOR TREATING OR PREVENTING PRESBYOPIA ~71:Santen Pharmaceutical Co., Ltd., 4-20, Ofuka-cho, Kita-ku, OSAKA-SHI 5308552, OSAKA, JAPAN, Japan ~72: KATO, Masatomo;KIDO, Kazutaka;ODA, Tomoko~ 33:JP ~31:2018-236717 ~32:18/12/2018

2021/04127 ~ Complete ~54:COAL AND GANGUE SEPARATION SYSTEM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, South Africa ~72: FENG, FEISHENG;LI, HUI;WANG, CHAO;YANG, KE;ZHAO, ERNING;ZHOU, WEI;ZHU, HONGZHENG;ZHU, JINBO~ 33:CN ~31:202011208733.6 ~32:03/11/2020

2021/04092 ~ Provisional ~54:BARBEQUE STAND ~71:GIDEON JOHANNES HITCHCOCK, 10 STRAND STREET, South Africa ~72: GIDEON JOHANNES HITCHCOCK~

2021/04100 ~ Complete ~54:RECOMBINANT ONCOLYTIC VIRUS FOR LYMPHOMA, ESOPHAGEAL CANCER, BREAST CANCER AND PANCREATIC CANCER THERAPY ~71:Binhui Biopharmaceutical Co., Ltd., B1 building, Biolake, No.666 Gaoxin Avenue, East Lake High-Tech Development Zone, Wuhan, Hubei, People's Republic of China ~72: LIU, Binlei~

2021/04101 ~ Complete ~54:ELECTRIC STAY WIRE MANUFACTURING DEVICE AND MANUFACTURING METHOD THEREOF ~71:STATE GRID CORPORATION OF CHINA, No. 999, Huanghe Road, Xincheng District, Shandong, People's Republic of China;STATE GRID SHANDONG ELECTRIC POWER COMPANY ZAOZHUANG POWER SUPPLY COMPANY, No. 999, Huanghe Road, Xincheng District, Shandong, People's Republic of China ~72: CHEN, Jingjing;DU, Haoyang;GAO, Chang;GAO, Wenxiang;GUO, Guangcheng;HAO, Qingxiang;LI, Qiang;LI, Quanjian;LI, Xianda;LI, Zhenggang;LIANG, Bo;LIANG, Meng;MA, Can;MA, Ping;MA, Xinyan;MA, Zhaoguo;WANG, Binghui;WANG, Yifan;WANG, Zhengbo;XU, Kexin;YAN, Dazhi;YAN, Honglin;YANG, Bin;YUE, Ling;ZHAO, Lianzheng;ZHONG, Shihua;ZHU, Weiwei~ 33:CN ~31:202011397352.7 ~32:04/12/2020

2021/04107 ~ Complete ~54:ACUTE TREATMENT AND RAPID TREATMENT OF HEADACHE USING ANTI-CGRP ANTIBODIES ~71:H. LUNDBECK A/S, Ottiliavej 9, 2500, Valby, Denmark ~72: BARBARA SCHAEFFLER;JEFFREY T.L SMITH;JOSEPH HIRMAN;LAHAR MEHTA;ROGER K CADY~ 33:US ~31:62/789,828 ~32:08/01/2019;33:US ~31:62/842,162 ~32:02/05/2019;33:US ~31:62/872,989 ~32:11/07/2019

2021/04106 ~ Complete ~54:SET OF PANELS THAT CAN BE VERTICALLY UNLOCKED, A METHOD AND A DEVICE THEREFORE ~71:VÄLINGE INNOVATION AB, Prästavägen 513, SE-263 64, VIKEN, Sweden ~72: ANDERS NILSSON;CAROLINE LANDGÅRD;KARL QUIST;ROGER YLIKANGAS~ 33:SE ~31:1950024-8 ~32:10/01/2019

2021/04116 ~ Complete ~54:ANTI-NKG2A ANTIBODIES AND USES THEREOF ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: BEE, Christine;BEZMAN, Natalie;CHEN, Guodong;DESHPANDE, Shrikant;HENNING, Karla Ann;HUANG, Richard Y.;JHATAKIA, Amy D.;KORMAN, Alan J.;RAKESTRAW, Ginger C.;RANGAN, Vangipuram S.;SHAO, Xiang~ 33:US ~31:62/768,471 ~32:16/11/2018;33:US ~31:62/927,211 ~32:29/10/2019

- APPLIED ON 6/17/2021 -

2021/04121 ~ Provisional ~54:BENEFICIATION OF MANGANESE-BEARING ORE ~71:GERARD PRETORIUS FAMILIE TRUST, 97 Broadbury Circle, Cornwall Hill Estate, IRENE 0178, Gauteng Province, SOUTH AFRICA, South Africa ~72: PRETORIUS, Gerard~

2021/04131 ~ Complete ~54:METHOD OF MAINTAINING APPLE STORAGE QUALITY AND PROLONGING SHELF LIFE ~71:Research Institute of Pomology, Chinese Academy of Agricultural Sciences, No. 98 Xinghai South Street, Xingcheng City, Huludao City, Liaoning Province, People's Republic of China ~72: Du Yanmin;Jia Chaoshuang;Jiang Yunbin;Tong Wei;Wang Wenhui;Wang Zhihua~

2021/04172 ~ Complete ~54:METHOD FOR DYNAMICALLY MONITORING INLAND RIVER BASIN GROUNDWATER IN ARID REGION IN REAL TIME ~71:XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY, CHINESE ACADEMY OF SCIENCES, NO.305 SCIENCE SECOND STREET, XINSHI DISTRICT, XINJIANG UYGUR AUTONOMOUS REGION, People's Republic of China ~72: CHENGGANG ZHU;HONGHUA ZHOU;HONGTAO JIA;TINGTING PAN;YANING CHEN;ZHI LI~

2021/04130 ~ Complete ~54:PREFABRICATED VIBRATION-DAMPING COMPONENTS FOR ASSEMBLED BUILDING ~71:Harbin University of Commerce, No.1 Xuehai street, Songbei District, Harbin City, Heilongjiang Province, People's Republic of China ~72: Su Jincheng~

2021/04145 ~ Complete ~54:DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCKÉ, Eddy Alberic~ 33:US ~31:62/775,151 ~32:04/12/2018

2021/04137 ~ Complete ~54:AN IMAGE DENOISING METHOD FOR DEEP VERTICAL SHAFT WALL ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Guo, Yongcun;Huang, Yourui;Jia, Xiaofen;Zhao, Baiting~

2021/04149 ~ Complete ~54:CRYSTALLINE AND SALT FORMS OF AN ORGANIC COMPOUND AND PHARMACEUTICAL COMPOSITIONS THEREOF ~71:LES LABORATOIRES SERVIER SAS, 50 rue Carnot, 92284 Suresnes Cedex, France ~72: ABIRA RAMAKRISHNAN;JACOB SIZEMORE;SHIJIE ZHANG;SYED ALTAF~ 33:US ~31:62/784,083 ~32:21/12/2018;33:US ~31:62/791,571 ~32:11/01/2019;33:US ~31:62/882,712 ~32:05/08/2019

2021/04156 ~ Complete ~54:CANCER TREATMENT USING DOCETAXEL BY CONTROLLING PEAK PLASMA LEVELS ~71:Modra Pharmaceuticals B.V., Barbara Strozziilaan 201, AMSTERDAM 1083 HN, THE NETHERLANDS, Netherlands ~72: BEIJNEN, Jacob Hendrik;SCHELLENS, Johannes Henricus Matthias~ 33:EP ~31:18215472.4 ~32:21/12/2018

2021/04160 ~ Complete ~54:DRINKING DEVICE ~71:ten-ace GmbH, Bayerstraße 69, MÜNCHEN 80335, GERMANY, Germany ~72: JÄGER, Tim;JÜNGST, Magdalena;KOPPITZ, Jannis;SCHLANG, Fabian~ 33:DE ~31:10 2018 222 299.1 ~32:19/12/2018

2021/04168 ~ Complete ~54:DEVICE FOR THE NEEDLE TUBE OF A SYRINGE ~71:FISCHER, Stephan, Auf der Brede 8, Germany;MOHR, Bernd, Mühlenberg 2, Germany;WILKE, Tobias, Heuwinkel 3, Germany ~72: FISCHER, Stephan;MOHR, Bernd;WILKE, Tobias~ 33:DE ~31:202018107232.3 ~32:18/12/2018

2021/04134 ~ Complete ~54:BENEFICIATION OF CR-BEARING ORE ~71:XTROPI (PTY) LTD., 23 Webmar Court, 1 St George Street, Lionvham, Somerset West 7130, WESTERN CAPE, SOUTH AFRICA, South Africa ~72: BOTHA, Ian Marco;VAN ANTWERPEN, Ehrart Wynand;WHITEHEAD, Brian~ 33:ZA ~31:2020/03601 ~32:17/06/2020

2021/04140 ~ Complete ~54:TUBERCULOSIS RESISTANCE PREDICTION METHOD ~71:UNIVERSITÄT ZÜRICH, RICH, Rämistr. 71, Switzerland ~72: BUCH, Thorsten;DÜMCKE, Sebastian;PRAJWAL, Prajwal~ 33:EP ~31:18209254.4 ~32:29/11/2018;33:EP ~31:19158962.1 ~32:22/02/2019

2021/04147 ~ Complete ~54:SHOPPING TROLLEY ~71:SHOPPACART PTY LTD., 27 Swan Vie Road,, Australia ~72: KHOURY, Edward Joseph;KHOURY, Ross;O'DONNELL, Jeanne Louise~ 33:AU ~31:2018904492 ~32:26/11/2018;33:AU ~31:2018904510 ~32:27/11/2018;33:AU ~31:2019901845 ~32:29/05/2019;33:AU ~31:2019903768 ~32:07/10/2019

2021/04153 ~ Complete ~54:MONITORING SYSTEM ~71:METSO OUTOTEC SWEDEN AB, Box 132, 231 22, Trelleborg, Sweden ~72: CARL NICHOLLS;IAN VANZYL~ 33:EP ~31:18215473.2 ~32:21/12/2018

2021/04166 ~ Complete ~54:SULCARDINE ADMINISTRATION FOR TREATMENT OF ACUTE ATRIAL FIBRILLATION ~71:HUYA BIOSCIENCE INTERNATIONAL, LLC, 12531 High Bluff Drive, Suite 138, United States of America ~72: ELLIOTT, Gary T.;ROMANO, Suzanne J.~ 33:US ~31:62/779,056 ~32:13/12/2018;33:US ~31:62/858,324 ~32:06/06/2019

2021/04176 ~ Complete ~54:COMBINATIONS COMPRISING POSITIVE ALLOSTERIC MODULATORS OR ORTHOSTERIC AGONISTS OF METABOTROPIC GLUTAMATERGIC RECEPTOR SUBTYPE 2 AND THEIR USE ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: BONE, Roger Francis;CEUSTERS, Marc André;CID-NÚÑEZ, José Maria;KLEIN, Brian D.;LAVREYSEN, Hilde;PYPE, Stefan Maria Christiaan;TRABANCO-SUÁREZ, Andrés Avelino;TWYMAN, Roy E.;VAN OSSELAER, Nancy Eulalie Sylvain;WHITE, H. Steven~ 33:US ~31:61/929,795 ~32:21/01/2014;33:EP ~31:14153880.1 ~32:04/02/2014;33:EP ~31:14153887.6 ~32:04/02/2014;33:EP ~31:14183324.4 ~32:03/09/2014;33:EP ~31:14187429.7 ~32:02/10/2014;33:US ~31:62/091,668 ~32:15/12/2014

2021/04133 ~ Complete ~54:METHOD FOR PREDICTING POTENTIAL DISTRIBUTION AREA OF PICEA ASPERATA ~71:RESEARCH INSTITUTE OF MODERN FORESTRY, XINJIANG ACADEMY OF FORESTRY, No. 191, Anju South Road, Shuimogou District, Urumqi City,, People's Republic of China ~72: BAOERHAN, Dilixiati;GAO, Jian;GAO, Yuan;HUANG, Liping;WANG, Lei;XIAO, Zhongqi;YANG, Yiyuan;ZHANG, Huifang;ZHANG, Jinglu;ZHU, Yali~

2021/04155 ~ Complete ~54:LOADING ARM ARRANGEMENT FOR A SWAP BODY VEHICLE FOR LOADING TRANSPORT CONTAINERS WITH A HOOK ~71:THE DYNAMIC ENGINEERING SOLUTION PTY LTD, 2-6 Ardtornish Street, Holden Hill, Australia ~72: BROWNE, James;FIORINOTTO, Oscar;NEWSTEAD, Michael~ 33:DE ~31:10 2018 129 146.9 ~32:20/11/2018

2021/04171 ~ Complete ~54:HOUSEHOLD INTELLIGENT DISINFECTING AND PURIFYING DEVICE ~71:Anhui University of Science and Technology, 168 Taifeng street, Huainan city, People's Republic of China ~72: DENG, Yingyin;WANG, Zhiyuan;XU, Runchen;YANG, Huimin;ZHANG, Wei~

2021/04125 ~ Provisional ~54:A SYSTEM FOR DETERRING AQUATIC ANIMALS ~71:ARMAMENTS CORPORATION OF SOUTH AFRICA SOC LTD., 370 Nossob Street, Erasmuskloof Ext 4, Pretoria, South Africa ~72: GABRIEL JACOBS;JACOB VENTER;JOHANNES VAN WYK~

2021/04152 ~ Complete ~54:PARTICULATE COMPOSITION COMPRISING CALCIUM NITRATE AND MOLYBDENUM AND METHOD FOR THE MANUFACTURE THEREOF ~71:YARA INTERNATIONAL ASA, Drammensveien 131, 0277, Oslo, Norway ~72: AMUND MYRSTAD;MARI KIRKEBØEN NÆSS;TORE FROGNER~ 33:EP ~31:19158892.0 ~32:22/02/2019

2021/04167 ~ Complete ~54:COMPOUNDS FOR USE IN THE TREATMENT OF PARKINSON'S DISEASE ~71:UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, 1 Jan Smuts Avenue, Braamfontein, South Africa ~72: BIGNOUX, Monique;BURNS, Jessica;CUTTLER, Katelyn;VAN DER MERWE, Eloise;WEISS, Stefan Franz Thomas~ 33:ZA ~31:2018/08025 ~32:28/11/2018

2021/04122 ~ Provisional ~54:ENERGY STORAGE AND MANAGEMENT SYSTEM ~71:KRACHT ENERGY SOLUTIONS (PTY) LTD, Die Heuwel Estate House 12, Die Heuwel, South Africa ~72: OOSTHUIZEN, Hendrik Jacobus~

2021/04135 ~ Complete ~54:LUBRICATING DEVICE FOR BEARINGS OF GEARBOX ~71:Zhengzhou Research Institute of Mechanical Engineering Co., Ltd., No.149 Kexue Avenue, Zhengzhou Hi-Tech Industries Development Zone, Zhengzhou, Henan, 450001, People's Republic of China ~72: GUAN, He;LIU, Zhongming;PEI, Bang;SHI, Lubing;WANG, Zhengbing;ZHANG, Zhihong~ 33:CN ~31:202110353345.5 ~32:31/03/2021

2021/04161 ~ Complete ~54:CGRP ANTAGONISTS FOR TREATING MIGRAINE BREAKTHROUGH ~71:Biohaven Pharmaceutical Holding Company Ltd., 215 Church Street, NEW HAVEN 06510, CT, USA, United States of America ~72: CORIC, Vladimir;CROOP, Robert~ 33:US ~31:62/794,665 ~32:20/01/2019;33:US ~31:62/844,169 ~32:07/05/2019;33:US ~31:62/893,206 ~32:29/08/2019;33:US ~31:62/910,284 ~32:03/10/2019;33:US ~31:62/959,088 ~32:09/01/2020

2021/04139 ~ Complete ~54:EXPERIMENT TABLE AND METHOD FOR QUANTITATIVELY INSPECTING COMPREHENSIVE PERFORMANCE OF OUTGOING QUALITY OF RV REDUCERS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, South Africa ~72: DING, PINGPING;FAN, ZAICHUAN;JIANG, KUOSHENG;ZHOU, YUANYUAN~ 33:CN ~31:202110414421.9 ~32:16/04/2021

2021/04162 ~ Complete ~54:COMPOSITIONS COMPRISING STREPTOCOCCUS PNEUMONIAE POLYSACCHARIDE-PROTEIN CONJUGATES AND METHODS OF USE THEREOF ~71:Merck Sharp & Dohme Corp., 126 East Lincoln Avenue, RAHWAY 07065-0907, NJ, USA, United States of America ~72: ABEYGUNAWARDANA, Chitrananda;CUI, Yadong Adam;FERRERO, Romulo;HE, Jian;MUSEY, Luwy;PETIGARA, Tanaz;SKINNER, Julie M.~ 33:US ~31:62/781,835 ~32:19/12/2018;33:US ~31:62/853,331 ~32:28/05/2019

2021/04157 ~ Complete ~54:PREPARATION INCLUDING VACCINE ADJUVANT ~71:Sumitomo Dainippon Pharma Co., Ltd., 6-8, Doshomachi 2-chome, Chuo-ku, Osaka-shi, OSAKA 5418524, JAPAN, Japan ~72: ONITA, Maiko~ 33:JP ~31:2018-242614 ~32:26/12/2018

2021/04144 ~ Complete ~54:ANTIBODIES TO PMEL17 AND CONJUGATES THEREOF ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BURGER, Matthew;ALESSIO, Joseph, Anthony;FLEMING, Tony;RAUNIYAR, Vivek;ROBLES, Eusebio, Machado~ 33:US ~31:62/783,565 ~32:21/12/2018;33:US ~31:62/803,110 ~32:08/02/2019

2021/04126 ~ Provisional ~54:PERSONAL CARE ~71:AMKA PRODUCTS (PTY) LTD, Innovation Centre (R&D), 14 Ellman Street, Sunderland Ridge, Centurion 0157, Gauteng, SOUTH AFRICA, South Africa ~72: COOMBER, Karen;DESAI, Anil;KALLA, Haroon;KALLA, Hussein;KALLA, Nazir;MOSANGI, Damodar;WHITLOCK, Victor~

2021/04124 ~ Provisional ~54:PORTABLE ASPHALT PREPARATION APPARATUS ~71:WALTER SISULU UNIVERSITY, Private Bag X1, Unitra, South Africa ~72: ABEJIDE, Samuel~

2021/04150 ~ Complete ~54:METHODS FOR CLONAL PLANT PRODUCTION ~71:PIONEER HI-BRED INTERNATIONAL, INC., 7100 NW 62nd Avenue, PO Box 1014, Johnston, Iowa, 50131-1014, United States of

America ~72: HUAXUN YE;JON AARON TUCKER REINDERS;KEITH S LOWE;WILLIAM JAMES GORDON-KAMM~ 33:US ~31:62/816,580 ~32:11/03/2019

2021/04159 ~ Complete ~54:SYSTEMS AND METHODS FOR EFFICIENT AND SECURE PROCESSING, ACCESSING AND TRANSMISSION OF DATA VIA A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;TARTAN, Chloe Ceren;VAUGHAN, Owen;WRIGHT, Craig Steven~ 33:GB ~31:1819284.9 ~32:27/11/2018;33:GB ~31:1819286.4 ~32:27/11/2018;33:GB ~31:1819290.6 ~32:27/11/2018;33:GB ~31:1819291.4 ~32:27/11/2018;33:GB ~31:1819293.0 ~32:27/11/2018;33:GB ~31:1819297.1 ~32:27/11/2018;33:GB ~31:1819299.7 ~32:27/11/2018

2021/04164 ~ Complete ~54:ACTIVATABLE MASKED ANTI-CTLA4 BINDING PROTEINS ~71:City of Hope, 1500 East Duarte Road, DUARTE 91010-3000, CA, USA, United States of America;Xilio Development, Inc., 828 Winter Street, WALTHAM 02451, MA, USA, United States of America ~72: KAROW, Margaret;WILLIAMS, John C.~ 33:US ~31:62/785,111 ~32:26/12/2018

2021/04138 ~ Complete ~54:LOCK CYLINDER, LOCKING DEVICE, LOCKING SYSTEM, KEY, AND KEY BLANK ~71:ABUS AUGUST BREMICKER SÖ;HNE KG, Altenhofer Weg 25 Wetter-Volmarstein , 58300, Germany ~72: CHRISTIAN GLUSCHAK;KLAUS ULRICH~ 33:DE ~31:102020117226.5 ~32:30/06/2020

2021/04165 ~ Complete ~54:METHODS AND SYSTEMS FOR DIAGNOSING FROM WHOLE GENOME SEQUENCING DATA ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: CHEN, Xiao;EBERLE, Michael A.~ 33:US ~31:62/896,548 ~32:05/09/2019;33:US ~31:62/908,555 ~32:30/09/2019;33:US ~31:63/006,651 ~32:07/04/2020

2021/04136 ~ Complete ~54:MOBILE DEVICE CHARGER ~71:PARKIN, Norman Frederick, 12 Sycamore Street, Zwartkop, South Africa ~72: PARKIN, Norman Frederick~ 33:ZA ~31:2020/03690 ~32:19/06/2020

2021/04142 ~ Complete ~54:COMPOSITIONS AND METHODS FOR USING BISPECIFIC ANTIBODIES TO BIND COMPLEMENT AND A TARGET ANTIGEN ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: KYRATSOUS, Christos;LIN, Chia-Yang;MURPHY, Andrew, J.;PRASAD, Brinda;STAHL, Neil~ 33:US ~31:62/804,358 ~32:12/02/2019

2021/04148 ~ Complete ~54:APPARATUS WITH MULTI-STAGE CROSS FLOW MEMBRANE FILTRATION ~71:SD FILTRATION A/S, Niels Bohrs Vej 37, 1.8660, Skanderborg, Denmark ~72: KELD B ANDREASEN;MICHAEL S BUNDGAARD;ULRIK JOHANSEN~ 33:DK ~31:PA 2018 00984 ~32:11/12/2018;33:DK ~31:PA 2019 00668 ~32:29/05/2019

2021/04151 ~ Complete ~54:DEVICE FOR OPTICAL INSPECTION OF PARISONS ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ; COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: DONATO LAICO;SIMONE NIGRO~ 33:IT ~31:102018000011107 ~32:14/12/2018

2021/04175 ~ Complete ~54:COMBINATIONS COMPRISING POSITIVE ALLOSTERIC MODULATORS OR ORTHOSTERIC AGONISTS OF METABOTROPIC GLUTAMATERGIC RECEPTOR SUBTYPE 2 AND THEIR USE ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: BONE, Roger Francis;CEUSTERS, Marc André;CID-NÚ;ÑEZ, José Maria;KLEIN, Brian D.;LAVREYSEN, Hilde;PYPE, Stefan Maria Christiaan;TRABANCO-SUÁREZ, Andrés Avelino;TWYMAN, Roy E.;VAN OSSELAER, Nancy Eulalie Sylvain;WHITE, H. Steven~ 33:US ~31:61/929,795 ~32:21/01/2014;33:EP ~31:14153880.1 ~32:04/02/2014;33:EP ~31:14153887.6 ~32:04/02/2014;33:EP ~31:14183324.4 ~32:03/09/2014;33:EP ~31:14187429.7 ~32:02/10/2014;33:US ~31:62/091,668 ~32:15/12/2014

2021/04173 ~ Complete ~54:CONTINUOUS SAMPLING-DETECTING-SAMPLE RETURNING APPARATUS OF ONLINE ASH DETECTOR ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, ANHUI PROVINCE, People's Republic of China ~72: DAN ZHU;HAIZENG LIU;LEI WANG;WENBAO LV;YIBING QIU~ 33:CN ~31:202110237282.7 ~32:03/03/2021

2021/04174 ~ Complete ~54:COMBINATIONS COMPRISING POSITIVE ALLOSTERIC MODULATORS OR ORTHOSTERIC AGONISTS OF METABOTROPIC GLUTAMATERGIC RECEPTOR SUBTYPE 2 AND THEIR USE ~71:Janssen Pharmaceutica N.V., Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: BONE, Roger Francis;CEUSTERS, Marc Andr#233;;CID-N#218;ÑEZ, Jos#233; Maria;KLEIN, Brian D.;LAVREYSEN, Hilde;PYPE, Stefan Maria Christiaan;TRABANCO-SU#193;REZ, Andr#233;s Avelino;TWYMAN, Roy E.;VAN OSSELAER, Nancy Eulalie Sylvain;WHITE, H. Steven~ 33:US ~31:61/929,795 ~32:21/01/2014;33:EP ~31:14153880.1 ~32:04/02/2014;33:EP ~31:14153887.6 ~32:04/02/2014;33:EP ~31:14183324.4 ~32:03/09/2014;33:EP ~31:14187429.7 ~32:02/10/2014;33:US ~31:62/091,668 ~32:15/12/2014

2021/04129 ~ Complete ~54:NO IRRIGATION BASE PLATE FOR ECOLOGICAL RESTORATION TREES IN ABANDONED MINING AREA AND ITS PRODUCTION METHOD AND PLANTING METHOD ~71:CHEN, Hongkai, 1-2, Building 13, No. 7, Xuefu Avenue, Nan#39;an District, Chongqing, 400060, People's Republic of China;WANG, Shengjuan, 9-1, Building 22, No. 17, Guangfu Avenue, Nan#39;an District, Chongqing, 400060, People's Republic of China;Zaozhuang University, 1 Bei#39;an Road 1#, Centre District, Zaozhuang City, Shandong Province, 277160, People's Republic of China ~72: CHEN, Hongkai;WANG, Shengjuan~

2021/04146 ~ Complete ~54:DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS ~71:I4F LICENSING NV, Oude Watertorenstraat 25, Belgium ~72: BOUCK#201;, Eddy Alberic~ 33:NL ~31:2022136 ~32:05/12/2018

2021/04123 ~ Provisional ~54:PROCESS FOR THE PRODUCTION OF ASPHALT CONCRETE ~71:WALTER SISULU UNIVERSITY, Private Bag X1, Unitra, South Africa ~72: ABEJIDE, Samuel~

2021/04132 ~ Complete ~54:MOBILE ACCURATE FEEDING SYSTEM FOR SHRIMP PONDS ~71:ShangHai Ocean University, No.999, Huchenghuan Rd, Nanhui New City, Shanghai, People's Republic of China ~72: Chen Leilei;Jiang Bo;Li Jun;Liang Yongcheng;Wu Di;Zhang Lizhen~

2021/04154 ~ Complete ~54:AUTOMATED UPDATING OF GEOLOGICAL MODEL BOUNDARIES FOR IMPROVED ORE EXTRACTION ~71:TECHNOLOGICAL RESOURCES PTY. LIMITED, Level 7, 360 Collins Street, Melbourne, Victoria, 3000, Australia ~72: ALEXANDER LOWE;ARMAN MELKUMYAN;DANIELLE ROBINSON;MEHALA BALAMURALI;RAYMOND LEUNG;TAMARA VASEY~ 33:AU ~31:2018904818 ~32:18/12/2018

2021/04158 ~ Complete ~54:SYSTEMS AND METHODS FOR EFFICIENT AND SECURE PROCESSING, ACCESSING AND TRANSMISSION OF DATA VIA A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN#39;S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;TARTAN, Chloe Ceren;VAUGHAN, Owen;WRIGHT, Craig Steven~ 33:GB ~31:1819284.9 ~32:27/11/2018;33:GB ~31:1819286.4 ~32:27/11/2018;33:GB ~31:1819290.6 ~32:27/11/2018;33:GB ~31:1819291.4 ~32:27/11/2018;33:GB ~31:1819293.0 ~32:27/11/2018;33:GB ~31:1819297.1 ~32:27/11/2018;33:GB ~31:1819299.7 ~32:27/11/2018

2021/04163 ~ Complete ~54:COLLAGENASE FORMULATIONS AND METHODS OF PRODUCING THE SAME ~71:Endo Global Aesthetics Limited, First Floor, Minerva House, Simmonscourt Road, BALLSBRIDGE, DUBLIN, 4, IRELAND, Ireland ~72: SUKURU, Karunakar~ 33:US ~31:62/788,916 ~32:06/01/2019

2021/04141 ~ Complete ~54:DEVICE FOR DEPOSITING AN ELEMENT BY MEANS OF A CANNULA ~71:SFM MEDICAL DEVICES GMBH, BRÜCKENSTRASSE 5, 63607 WÄCHTERSACH, GERMANY, Germany ~72: BRÖMSEN, Olaf;RICHTER, Timo~ 33:DE ~31:10 2018 129 618.5 ~32:23/11/2018

2021/04143 ~ Complete ~54:DEUTERATED ANALOGS OF ACETYL-LEUCINE ~71:INTRABIO LTD, Begbroke Science Park, Begbroke Hill, Woodstock Road Begbroke, United Kingdom ~72: MANN, Michiko~ 33:US ~31:62/776,297 ~32:06/12/2018

- APPLIED ON 6/18/2021 -

2021/04169 ~ Provisional ~54:TAP HOLE DRILL AND DRILL BIT ~71:Jakobus Lewis, 7 Van Staden Street, South Africa ~72: Jakobus Lewis~

2021/04208 ~ Complete ~54:A2-ADRENOCEPTOR SUBTYPE C (ALPHA-2C) ANTAGONISTS FOR THE TREATMENT OF SLEEP APNEA ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: DELBECK, Martina;HAHN, Michael~ 33:EP ~31:18207138.1 ~32:20/11/2018

2021/04204 ~ Complete ~54:METHOD AND APPARATUS FOR CHROMA INTRA PREDICTION IN VIDEO CODING ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/822,981 ~32:24/03/2019

2021/04202 ~ Complete ~54:INFANT NUTRITIONAL COMPOSITION FOR USE IN THE ENHANCEMENT OF PANCREATIC MATURATION AND INSULIN BIOSYNTHESIS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GARCIA-RODENAS, Clara Lucia;RAMOS NIEVES, José Manuel~ 33:EP ~31:18209519.0 ~32:30/11/2018

2021/04212 ~ Complete ~54:GDF15 ANALOGS AND METHODS FOR USE IN DECREASING BODY WEIGHT AND/OR REDUCING FOOD INTAKE ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: FABBRINI, Elisa;HERMANN, Robert;KIMKO, Holly;ROTHENBERG, Paul;STOJANOVIC-SUSULIC, Vedrana;ZHENG, Songmao~ 33:US ~31:62/769,675 ~32:20/11/2018

2021/04183 ~ Complete ~54:RECOMBINANT ONCOLYTIC HERPES SIMPLEX VIRUS TYPE II AND ITS PHARMACEUTICAL COMPOSITION ~71:Binhui Biopharmaceutical Co., Ltd., B1 building, Biolake, No.666 Gaoxin Avenue, East Lake High-Tech Development Zone, Wuhan, Hubei, People's Republic of China ~72: LIU, Binlei~

2021/04186 ~ Complete ~54:USAGE MONITORING DATA CONTROL ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: FERNANDEZ ALONSO, Susana;GARCIA AZORERO, Fuencisla;INIESTA GONZALEZ, Antonio;MARTIN CABELLO, Irene;RIVAS MOLINA, Ignacio~ 33:US ~31:62/769,095 ~32:19/11/2018

2021/04216 ~ Complete ~54:SWITCH CABINET WITH A FRAME AND A SIDEWALL ELEMENT MOUNTED THEREON ~71:RITTAL GMBH & CO. KG, Auf dem Stützelberg, Germany ~72: BÄUMER, Carsten;ZAPLETAL, Rebecca~ 33:DE ~31:10 2019 103 075.7 ~32:07/02/2019

2021/04182 ~ Complete ~54:INTERNET OF THINGS BASED PIPE CRAWLER SYSTEM ~71:AGRAWAL, Krishna Kant, Department of Computer Science & Engineering, ABES Institute of Technology, Campus 2, 19KM Stone, Vijay Nagar, Uttar Pradesh, India;MISHRA, Devesh, Department of Electronics & Communication, University of Allahabad, Uttar Pradesh, India;MISHRA, Piyush Kumar, Department of Electronics & Communication, University of Allahabad, Uttar Pradesh, India;PANDE, Tanuja, Department of Electronics

& Communication, University of Allahabad, Uttar Pradesh, India; TIWARI, Devesh, Department of Electronics & Communication, University of Allahabad, Uttar Pradesh, India ~72: AGRAWAL, Krishna Kant; MISHRA, Devesh; MISHRA, Piyush Kumar; PANDE, Tanuja; TIWARI, Devesh~

2021/04170 ~ Provisional ~54: BALLOON CATHETER ~71: MUDGE, Edward Charles, 46 Laurier Road, Highgate, United Kingdom ~72: MUDGE, Edward Charles~

2021/04177 ~ Complete ~54: A PURE CHINESE TRADITIONAL MEDICINE ANTIBACTERIAL PREPARATION AND ITS APPLICATION ~71: Anhui Yiren Co., Ltd, 916 Boju Road, High Tech Zone, Bozhou City, People's Republic of China; Bozhou University, 2266 Tangwang Avenue, High Tech Zone, Bozhou City, Anhui Province, People's Republic of China ~72: Ge Yue; Han Guang; Wang Mengli; Wang Wenjian; Xia Youfu; Yang Yongjian; Yu Hao; Zhang Jin; Zhi Yunkun; Zhu Ming~

2021/04179 ~ Complete ~54: A TEST STRIP CARRIER PLATE, DETECTION DEVICE AND ITS MANUFACTURING METHOD ~71: Hangzhou Laihe Biotechnology Co., Ltd, Room 505-512, Floor 5, Building B, Building 2, No.688 Bin'an Road, Changhe Street, Binjiang District, Hangzhou, People's Republic of China ~72: Ou Yang yun; Ye Xiaojun~

2021/04180 ~ Complete ~54: ASSEMBLY TOOLING AND METHOD OF FLAW DETECTION WHEEL OF TRAIN TRACKS ~71: Henan Xinda Railway Equipment Co., Ltd, No. 1, Gaobao Road, Gaozhuang Town Industrial Park, Urban-Rural Integration Demonstration Zone, Anyang City, Henan Province, People's Republic of China ~72: Tian yong xing; Wang xiao feng; Wang yun ping~

2021/04207 ~ Complete ~54: COMBINATION TREATMENT FOR SOLID TUMORS USING DOCETAXEL AND A CYP3A INHIBITOR ~71: Modra Pharmaceuticals B.V., Barbara Strozilaan 201, AMSTERDAM 1083 HN, THE NETHERLANDS, Netherlands ~72: BEIJNEN, Jacob Hendrik; SCHELLEN, Johannes Henricus Matthias~ 33: EP ~31:18215488.0 ~32:21/12/2018

2021/04195 ~ Complete ~54: HYBRID PROMOTERS AND THEIR USES IN THERAPY, NOTABLY FOR TREATING TYPE II COLLAGENOPATHIES ~71: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3, rue Michel Ange, 75016, PARIS, France; INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), 101, Rue de Tolbiac, 75013, PARIS, France; UNIVERSITE COTE D'AZUR, 28 Avenue Valrose, 06100, Nice, France ~72: ELVIRE GOUZE~ 33: EP ~31:18306740.4 ~32:19/12/2018

2021/04192 ~ Complete ~54: MMPL3 INHIBITORS, COMPOSITIONS AND USES THEREOF ~71: SHANGHAITECH UNIVERSITY, Room 207, Administration Center, People's Republic of China ~72: LI, Jun; RAO, Zihe; YANG, Haitao; ZHANG, Bing~ 33: WO ~31:PCT/CN2018/116350 ~32:20/11/2018

2021/04198 ~ Complete ~54: METHOD FOR PATINATING ZINC SURFACES AND SYSTEM THEREFOR ~71: AQUACARE EUROPE B.V., Graaf van Solmsweg 56, 5222, BP S-Hertogenbosch, Netherlands ~72: BAAS KOOS JAN~ 33: NL ~31:2022279 ~32:21/12/2018

2021/04213 ~ Complete ~54: ANTIBODIES THAT NEUTRALIZE HEPATITIS B VIRUS AND USES THEREOF ~71: Humabs BioMed SA, Via dei Gaggini 3, BELLINZONA 6500, SWITZERLAND, Switzerland ~72: CORTI, Davide~ 33: US ~31:62/782,274 ~32:19/12/2018; 33: US ~31:62/860,085 ~32:11/06/2019

2021/04214 ~ Complete ~54: BICYCLIC DERIVATIVES ~71: Elanco Tiergesundheit AG, Mattenstrasse 24 A, BASEL 4058, SWITZERLAND, Switzerland ~72: DUCRAY, Pierre; PAUTRAT, Francois; RAGEOT, Denise; TAHTAOUI, Chouaib~ 33: US ~31:62/781,073 ~32:18/12/2018

- 2021/04184 ~ Complete ~54:METHOD FOR ACTIVATING IMMUNOCYTES IN VITRO ~71:Binhui Biopharmaceutical Co., Ltd., B1 building, Biolake, No.666 Gaoxin Avenue, East Lake High-Tech Development Zone, Wuhan, Hubei, People's Republic of China ~72: HU, Han;JIN, Jing;LIU, Binlei;WANG, Runyang;WANG, Yang~
- 2021/04191 ~ Complete ~54:METHOD AND APPARATUS FOR EVENT MONITORING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: XU, Wenliang~ 33:CN ~31:PCT/CN2018/116188 ~32:19/11/2018
- 2021/04201 ~ Complete ~54:WIRE ROPE SAFETY BARRIER ~71:Fletcher Building Holdings Limited, 810 Great South Road, PENROSE 1061, AUCKLAND, NEW ZEALAND, New Zealand ~72: WIECZOREK, Wojciech~ 33:NZ ~31:749587 ~32:21/12/2018
- 2021/04206 ~ Complete ~54:IMIDAZOPYRIDAZINE AND IMIDAZOPYRIDINE COMPOUNDS AS INHIBITORS OF ACTIVIN RECEPTOR-LIKE KINASE-2 ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: HE, Chunhong;MEI, Song;PAN, Jun;ROACH, Jeremy;WU, Liangxing;YAO, Wenqing~ 33:US ~31:62/782,994 ~32:20/12/2018;33:US ~31:62/935,891 ~32:15/11/2019
- 2021/04193 ~ Complete ~54:CARBON NANOMATERIAL FOR USE AS A CATALYST ~71:UNIVERSITY OF TARTU, University of Tartu, Ülikooli 18,, Estonia ~72: DOBELE, Galina;KRUUSENBERG, Ivar;VOLPERTS, Aleksandrs;ZURINS, Aivars~ 33:GB ~31:1819118.9 ~32:23/11/2018
- 2021/04199 ~ Complete ~54:MULTIPLEXED ASSAY AND METHODS OF USE THEREOF ~71:WASHINGTON UNIVERSITY, One Brookings Drive, St. Louis, Missouri, 63130, United States of America ~72: MELISSA BUDELIER;RANDALL BATEMAN~ 33:US ~31:62/790,290 ~32:09/01/2019
- 2021/04200 ~ Complete ~54:SUBSTITUTED 3-((3-AMINOPHENYL)AMINO)PIPERIDINE-2,6-DIONE COMPOUNDS, COMPOSITIONS THEREOF, AND METHODS OF TREATMENT THEREWITH ~71:CELGENE CORPORATION, 86 Morris Avenue, Summit, New Jersey, 07901, United States of America ~72: BRANDON W WHITEFIELD;CHRISTOPHER MAYNE;EVAN J HORN;JOHN J SAPIENZA;JOSHUA HANSEN;MARK A NAGY;MASSIMO AMMIRANTE;MATTHEW D CORREA;PATRICK PAPA;RAMA KRISHNA NARLA;SHUICHAN SU;SOGOIE BAHMANYAR;STEPHEN NORRIS;SURENDRA NAYAK;TIMOTHY S KERCHER;VERONIQUE PLANTEVIN-KRENITSKY;VIRGINIA GRANT~ 33:US ~31:62/782,298 ~32:19/12/2018;33:US ~31:62/879,900 ~32:29/07/2019
- 2021/04203 ~ Complete ~54:BICYCLIC DERIVATIVES ~71:Elanco Tiergesundheit AG, Mattenstrasse 24 A, BASEL 4058, SWITZERLAND, Switzerland ~72: DUCRAY, Pierre;PAUTRAT, Francois;RAGEOT, Denise;TAHTAOUI, Chouaib~ 33:US ~31:62/781,132 ~32:18/12/2018
- 2021/04210 ~ Complete ~54:POLYAMIDE MICROCAPSULES ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: BERTHIER, Damien;ELABBADI, Amal;JACQUEMOND, Marlène;NICOLAE, Anaick;OUALI, Lahoussine~ 33:EP ~31:18214089.7 ~32:19/12/2018
- 2021/04181 ~ Complete ~54:PREPARATION METHOD FOR SELF-CLEANING CARBON FIBER COMPOSITE MEMBRANE FOR OIL-WATER SEPARATION ~71:Anhui University of Science And Technology, No.168, Taifeng Street, Huainan City, People's Republic of China ~72: CHENG, Guojun;CUI, Jiuyun;DING, Guoxin;LIU, Yin;XIE, Atian~
- 2021/04185 ~ Complete ~54:MECHANICAL DISC METER WITH VARIABLE ASSEMBLY ARTICULATION POINT ~71:NOER, Miguel Humberto, Rua Primeiro de Janeiro. 266-Apto 10, Brazil;SILVA, Marcio Luiz Neuvald, Rua Doutor Noronha, No. 542, Brazil ~72: NOER, Miguel Humberto;SILVA, Marcio Luiz Neuvald~

2021/04189 ~ Complete ~54:METHOD OF PRODUCING HIGHER ALKANONES, PREFERABLY 6-UNDECANONE, AND DERIVATIVES THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: HAAS, Thomas;HECKER, Anja;PAULMANN, Uwe;RICHTER, Christian~ 33:EP ~31:18207311.4 ~32:20/11/2018

2021/04194 ~ Complete ~54:LUBRICANT FOR THE HOT FORMING OF METALS ~71:CHEMISCHE FABRIK BUDENHEIM KG, Rheinstrasse 27, 55257, Budenheim, Germany ~72: CLÉMENCE LONGIS;DIRK MASURAT;MARVIN BARGON;NICOLE WEYER;STEFFEN BUGNER~ 33:DE ~31:10 2019 104 540.1 ~32:22/02/2019

2021/04209 ~ Complete ~54:PROCESS FOR PREPARING POLYAMIDE MICROCAPSULES ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: BERTHIER, Damien;ELABBADI, Amal;JACQUEMOND, Marlène;NICOLAE, Anaick;OUALI, Lahoussine~ 33:EP ~31:18214079.8 ~32:19/12/2018

2021/04178 ~ Complete ~54:METHOD FOR DETECTING THE INITIAL POSITION OF ROTOR AT STANDSTILL OF PERMANENT MAGNET SYNCHRONOUS MOTOR ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, People's Republic of China ~72: Peng Jiecai;Wang Bin;Zhang Guisheng~

2021/04190 ~ Complete ~54:MODIFIED HOMOSERINE DEHYDROGENASE AND METHOD FOR PRODUCING HOMOSERINE OR L-AMINO ACID DERIVED FROM HOMOSERINE USING THE SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: BAEK, Mina;HUH, Lan;KIM, Kyungrim;KWON, Su Yon;LEE, Jaemin;LEE, Kwang Woo;SON, Seung-ju~ 33:KR ~31:10-2018-0167599 ~32:21/12/2018

2021/04197 ~ Complete ~54:CELL SEPARATION APPARATUS AND METHODS OF USE ~71:KOLIGO THERAPEUTICS, INC., 2113 State Street, New Albany, Indiana, 47150, United States of America ~72: JULES VALENTI;ROLF WOLTERS;TOM GURSKI~

2021/04187 ~ Complete ~54:DRIED BIOLOGICAL COMPOSITIONS AND METHODS THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BRAUN,Max;CABALES, Avaniek;DERNEDDE, Mathias;LUNDQUIST, Eric G.;MOHAMMED, Saiid;MOLLER, Stephen;PAASCHE, Alexander;PROULX, Christopher;REMELÉ, Stefan;SCHLEGEL-KACHEL, Sibylle;TSCHERNJA EW, Juri;WANG, Jing~ 33:US ~31:62/770,557 ~32:21/11/2018

2021/04211 ~ Complete ~54:HETEROARYLDIHYDROPYRIMIDINE DERIVATIVES AND METHODS OF TREATING HEPATITIS B INFECTIONS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: CHENG, Zhanling;DENG, Gang;JIANG, Yimin;LIANG, Chao;XU, Yanping~ 33:IB ~31:2018/122258 ~32:20/12/2018;33:US ~31:62/791,576 ~32:11/01/2019

2021/04188 ~ Complete ~54:METHOD AND APPARATUS FOR NOTIFYING APPLICATION FUNCTION NODE ABOUT RDS CONFIGURATION OF NETWORK ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: XU, Wenliang~ 33:CN ~31:PCT/CN2018/116155 ~32:19/11/2018

2021/04205 ~ Complete ~54:JAK1 PATHWAY INHIBITORS FOR THE TREATMENT OF GASTROINTESTINAL DISEASE ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: HOLLIS, Gregory F.;SMITH, Paul;YELESWARAM, Krishnaswamy~ 33:US ~31:62/781,877 ~32:19/12/2018;33:US ~31:62/854,801 ~32:30/05/2019;33:US ~31:62/901,377 ~32:17/09/2019

2021/04196 ~ Complete ~54:METHODS, COMPOSITIONS, AND KITS FOR TREATING OCULAR DISEASES
~71:ELOXX PHARMACEUTICALS, 950 Winter Street, Waltham, Massachusetts, 02451, United States of
America ~72: GREG WILLIAMS;JOHN VAN DUZER~ 33:US ~31:62/773,131 ~32:29/11/2018;33:US
~31:62/783,852 ~32:21/12/2018;33:US ~31:62/838,905 ~32:25/04/2019;33:US ~31:62/878,260
~32:24/07/2019

2021/04215 ~ Complete ~54:METHODS FOR DIAGNOSING AND/OR TREATING ACUTE OR CHRONIC LIVER,
KIDNEY OR LUNG DISEASE ~71:ASOCIACIÓN CENTRO DE INVESTIGACIÓN COOPERATIVA EN
BIOCIENCIAS-CIC BIOGUNE, Parque Tecnológico de Bizkaia, Spain ~72: MARTÍNEZ CHANTAR,
María Luz;MARTÍNEZ DE LA CRUZ, Alfonso;SIMÓN, Jorge~ 33:EP ~31:18382853.2
~32:26/11/2018

- APPLIED ON 6/21/2021 -

2021/04228 ~ Complete ~54:PORTABLE OPERATIONAL MEDICINE CRUSHING DEVICE SUITABLE FOR
EMERGENCY DEPARTMENT ~71:The Affiliated Hospital of Youjiang Medical University for Nationalities, No.18
Zhongshan 2nd Road, Youjiang District, Baise City, Guangxi Zhuang Autonomous Region, People's Republic of
China ~72: Lin Qiqing;Peng Hao;Xu Shuzhen~

2021/04227 ~ Complete ~54:RAPID BOTANICAL OIL DISTILLATION DEVICE UTILIZING MICROWAVE AGENT
~71:NATURAL EXTRACTION SYSTEMS, LLC, 2840 WILDERNESS PLACE, SUITE C, BOULDER, CO 80301,
USA, United States of America ~72: THOMAS, C., Russell~ 33:US ~31:62/428,868 ~32:01/12/2016

2021/04220 ~ Provisional ~54:BLAST CONFIRMATION ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place,
The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KRUGER, Michiel Jacobus;MAURISSENS,
Daniel August Julien Louis~

2021/04229 ~ Complete ~54:MULTIFUNCTIONAL CHEMOTHERAPY CONTROL DEVICE IN ONCOLOGY
DEPARTMENT ~71:The First Affiliated Hospital of Chongqing Medical University, 1# Youyi Road, Yuzhong
District, Chongqing, People's Republic of China ~72: Du Huimin;Niu Bailin~

2021/04230 ~ Complete ~54:INJECTION MOLDED SCREENING APPARATUSES AND METHODS
~71:DERRICK CORPORATION, 590 Duke Road, United States of America ~72: WOJCIECHOWSKI, Keith~
33:US ~31:15/851,099 ~32:21/12/2017;33:US ~31:62/648,771 ~32:27/03/2018;33:US ~31:15/965,195
~32:27/04/2018

2021/04241 ~ Complete ~54:SYSTEMS, APPARATUSES, AND METHODS FOR MONITORING SOIL
CHARACTERISTICS AND DETERMINING SOIL COLOR ~71:PRECISION PLANTING LLC, 23207 Townline
Road, Tremont, United States of America ~72: STRNAD, Michael~ 33:US ~31:62/800,950 ~32:04/02/2019

2021/04259 ~ Complete ~54:ELECTRONIC PURIFICATION OF AIR IN MINES ~71:Puriscience Pty Ltd, 5
Hungerford Close, CESSNOCK 2325, NEW SOUTH WALES, AUSTRALIA, Australia ~72: CRAVERO, Humberto
Alexander~ 33:AU ~31:2018904600 ~32:04/12/2018

2021/04223 ~ Complete ~54:AN INTEGRATED SWEEPING AND SPRAYING PIPELINE CLEANING ROBOT
~71:BINZHOU UNIVERSITY, No. 391, 5th Huanghe Road, Binzhou, Shandong, 256600, People's Republic of
China ~72: Qiang LIU;Sen ZHANG~ 33:CN ~31:202110441439.8 ~32:23/04/2021

2021/04237 ~ Complete ~54:HIGH EFFICIENCY BORING MACHINE FOR MINE ROADWAY ~71:ANHUI
UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of
China;CHONGQING RESEARCH INSTITUTE CO., LTD OF CHINA COAL TECHNOLOGY ENGINEERING

GROUP, No. 6, Kecheng Road, Jiulongpo district, People's Republic of China; QIDONG COAL MINE OF ANHUI HENGYUAN COAL ELECTRICITY CO., LTD, Daze Township, Anhui Province, People's Republic of China ~72: GUO, Biao; LI, Shaobo; REN, Qihan; ZHU, Chuanqi~ 33:CN ~31:202110040459.4 ~32:12/01/2021

2021/04239 ~ Complete ~54:METHOD FOR DETECTING WATER JET CUTTING OF TARGET MATERIAL BASED ON FORCE CHANGE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: WANG, Congdong~

2021/04260 ~ Complete ~54:CELL MANAGEMENT FOR CA ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: NIMBALKER, Ajit; NORY, Ravikiran~ 33:US ~31:62/791,570 ~32:11/01/2019

2021/04217 ~ Provisional ~54:WIFI WARNING SYSTEM ~71:FCM Swanepoel, 906 Riethaanstr., Montnana Park, South Africa ~72: Meyer Swanepoel~

2021/04219 ~ Provisional ~54:GENERAL PURPOSE SELF REFERENCING ELECTRO MECHANICAL PROPULSION DEVICE FOR PROVIDING THRUST TO ANY ATTACHED MOVABLE VEHICLE/CRAFT/BODY ETC. ~71:Gregory John Green, No. 70 Manus Avenue, , Palm Beach, , Gold Coast, , Australia, , 4221, Australia ~72: Gregory John Green~

2021/04233 ~ Complete ~54:ROTATING WHEEL TYPE COAL AND GANGUE IDENTIFICATION DEVICE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: GUO, Yongcun; WANG, Chao; XIE, Jun; YANG, Ke; ZHANG, Yong; ZHOU, Wei; ZHU, Hongzheng; ZHU, Jinbo~ 33:CN ~31:202011210133.3 ~32:03/11/2020

2021/04245 ~ Complete ~54:METHOD AND SYSTEM OF VALIDATING CASH TRANSACTIONS ~71:Safe Take Cash (Pty) Ltd., 46 Mafunyane Street, South Africa ~72: VAN DER MERWE, Alwyn~ 33:ZA ~31:2018/07881 ~32:22/11/2018

2021/04248 ~ Complete ~54:REACTOR AND PROCESS FOR GASIFYING AND/OR MELTING OF FEED MATERIALS ~71:KBI INVEST & MANAGEMENT AG, Dorfstrasse 12, Switzerland ~72: WEGNER, André~ 33:EP ~31:18208810.4 ~32:28/11/2018

2021/04249 ~ Complete ~54:NOVEL DUAL MODE OF ACTION SOLUBLE GUANYLATE CYCLASE ACTIVATORS AND PHOSPHODIESTERASE INHIBITORS AND USES THEREOF ~71:TOPADUR PHARMA AG, GRABENSTRASSE 11A, 8952 SCHLIEREN, SWITZERLAND, Switzerland ~72: DI MAIO, Selena; KOCH, Guido; LONE, Esra; MARTINI, Elia; NAEF, Reto; PETERKE, Jeanette; SPOERRI, Michael; TENOR, Hermann~ 33:EP ~31:18208939.1 ~32:28/11/2018

2021/04258 ~ Complete ~54:DEVICES AND METHODS FOR MONITORING AND ELIMINATION OF HONEY BEE PARASITES ~71:Complex Inc., 1191 Ellis Hollow Rd I, ITHACA 14850, NY, USA, United States of America ~72: OAKES, Nathan; PECK, David T.; SCOFIELD, Hailey~ 33:US ~31:62/774,574 ~32:03/12/2018; 33:US ~31:62/930,925 ~32:05/11/2019

2021/04261 ~ Complete ~54:COMBINATION PHARMACEUTICAL COMPOSITIONS AND METHODS THEREOF ~71:UNIVERSITY OF WASHINGTON, 4545 Roosevelt Way NE Suite 400 Seattle, United States of America ~72: HO, Rodney, J.Y.; MCCONNACHIE, Lisa; YU, Jesse~ 33:US ~31:62/791,453 ~32:11/01/2019

2021/04224 ~ Complete ~54:METHOD FOR GROUTING REINFORCEMENT OF FAULT FRACTURE ZONE OF COAL MINING WORKING FACE ~71:Anhui University of Science and Technology, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China; China Coal Technology Engineering Group Chongqing Research Institute, No.6, Kecheng Road, Jiulongpo District, Chongqing, 400000, People's Republic of

China;Huaibei Mining Co.,Ltd., No.276, Renmin Middle Road, Xiangshan District, Huaibei City, Anhui Province, 235000, People's Republic of China ~72: Cheng, Xiang;Huang, Shunjie;Li, Gang;Li, Yingming;Meng, Xiangrui;Qin, Zhihong;Wang, Song;Xu, Zunyu;Yuan, Benqing;Zhao, Guangming~

2021/04221 ~ Provisional ~54:ADJUSTABLE MODULAR CART ~71:TRENSTAR SA (PTY) LTD., Unit 3, Central Park, 13 Esdoring Nook, Highveld Techno Park, Centurion, South Africa ~72: RUAN BARNARD;WERNER DE SWARDT~

2021/04240 ~ Complete ~54:METHOD FOR CUTTING TARGET MATERIAL BY WATER JET BASED ON TARGET MATERIAL VIBRATION FREQUENCY ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: WANG, Congdong~

2021/04254 ~ Complete ~54:TRIPLE COMBINATION THERAPIES FOR ANTI-AGING ~71:LUNELLA BIOTECH, INC., 145 Richmond Road, Ottawa, Ontario, K1Z 1A1, Canada ~72: FEDERICA SOTGIA;MARCO FIORILLO;MICHAEL P LISANTI~ 33:US ~31:62/780,488 ~32:17/12/2018;33:US ~31:62/804,411 ~32:12/02/2019;33:US ~31:62/834,794 ~32:16/04/2019

2021/04262 ~ Complete ~54:DEVICE FOR HIGH-PRECISION MEASUREMENT OF WAVELETS FROM PLASMA SOURCE IN SHALLOW WATER ~71:OCEAN UNIVERSUTY OF CHINA, COLLEGE OF MARINE GEOSCIENCES N.O. 238 SONG LING RD., LAO SHAN DISTRICT QINGDAO, People's Republic of China ~72: LI, Qianqian;LIU, Hongwei;LIU, Huaishan;LV, Boran;XING, Lei;ZHANG, Jin~ 33:WO ~31:PCT/CN2020/113106 ~32:02/09/2020

2021/04242 ~ Complete ~54:METHODS AND COMPOSITIONS FOR THE TREATMENT OF FABRY DISEASE ~71:SANGAMO THERAPEUTICS, INC., Point Richmond Tech Center, 501 Canal Blvd Suite A100 Richmond, United States of America ~72: HUSTON, Marshall, W.~ 33:US ~31:62/788,439 ~32:04/01/2019

2021/04250 ~ Complete ~54:LIGHTNING CURRENT ARRESTER DEVICE ~71:OBO BETTERMANN HUNGARY KFT., Alsóráda 2, Hungary ~72: Jürgen TRINKWALD;Jan MEPPPELINK;Martin BISCHOFF~ 33:DE ~31:10 2019 101 577.4 ~32:23/01/2019

2021/04256 ~ Complete ~54:MONITORING OF A BEVERAGE DISPENSING SYSTEM ~71:CARLSBERG BREWERIES A/S, J.C. Jacobsens Gade 1, 1799, Copenhagen V, Denmark ~72: LUKA KAROLI;PETER BACH;ROLAND JONATHAN KOCH~ 33:EP ~31:19156738.7 ~32:12/02/2019

2021/04218 ~ Provisional ~54:SUPERPOSITION EXTRINSIC VALUE ARBITRAGE ~71:Euro Equities (South Africa) (Pty) Ltd, 44 Suikerbos Avenue, South Africa ~72: Louri Lemmer; Thomas Johannes van der Merwe~

2021/04225 ~ Complete ~54:SYSTEM AND METHOD FOR ELECTRONIC DOCUMENT PROCESSING AND STORING ~71:SERVICE SUPREMACY CONSORTIUM (PTY) LTD, Stand 118, Nhombelani, Malamulele, South Africa ~72: CHAUKE, Langetela Alert~ 33:ZA ~31:2020/03734 ~32:22/06/2020

2021/04232 ~ Complete ~54:DUAL AXIS SOLAR TRACKING SYSTEM ~71:INDIAN OIL CORPORATION LIMITED, G-9, Ali Yavar Jung Marg, Bandra (East), India ~72: DIKSHIT, Vibhav;MEENA, Chhvideep;RAMAKUMAR, Sankara Sri Venkata;SAXENA, Deepak;SINGH, Sudhir Kumar;SRIVASTAVA, Umish;TIWARI, Vinay~ 33:IN ~31:202021028525 ~32:04/07/2020

2021/04257 ~ Complete ~54:COMPOSITIONS, METHODS AND USES FOR ELICITING AN IMMUNE RESPONSE ~71:GRIFFITH UNIVERSITY, 170 Kessels Road, Nathan, Queensland, 4111, Australia ~72: EVGENY SEMCHENKO;FREDA E.-C JEN;KATE SEIB;MICHAEL JENNINGS~ 33:AU ~31:2018904887 ~32:21/12/2018

2021/04226 ~ Complete ~54:A MULTIPURPOSE GARMENT ~71:EVANS, Craig, 11 RALEIGH ROAD, COWIES HILL, PINETOWN, SOUTH AFRICA, South Africa ~72: EVANS, Craig~

2021/04234 ~ Complete ~54:COAL AND GANGUE SORTING DEVICE AND RAW COAL AND GANGUE DISCHARGE SYSTEM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: FENG, Feisheng;LI, Hui;WANG, Chao;YANG, Ke;ZHAO, Erning;ZHOU, Wei;ZHU, Hongzheng;ZHU, Jinbo~ 33:CN ~31:202011207489.1 ~32:03/11/2020

2021/04238 ~ Complete ~54:AIRBAG PROTECTIVE CANOPY FOR SUPPORTING ROADWAY ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China;QIDONG COAL MINE OF ANHUI HENGYUAN COAL ELECTRICITY CO., LTD, Daze Township, Anhui Province, People's Republic of China ~72: CHEN, Lipeng;GUO, Biao;LI, Shaobo;ZHU, Chuanqi~ 33:CN ~31:202110021845.9 ~32:07/01/2021

2021/04251 ~ Complete ~54:REMOTE LPWAN GATEWAY WITH BACKHAUL OVER A HIGH-LATENCY COMMUNICATION SYSTEM ~71:FLEET SPACE TECHNOLOGIES PTY LTD, 8A Myer Court, Australia ~72: AJAZ, Sabooh;NARDINI, Flavia Tata;PEARSON, Matthew~ 33:AU ~31:2018904671 ~32:07/12/2018;33:AU ~31:2019200432 ~32:22/01/2019

2021/04244 ~ Complete ~54:RECOMBINANT VIRUSES AND THE USES THEREOF ~71:CEVA SANTE ANIMALE, 10 avenue de la Ballastiere, 33500, Libourne, France ~72: LEE, Jina;SASAKI, Kenta~ 33:EP ~31:18306852.7 ~32:27/12/2018

2021/04246 ~ Complete ~54:HUMANIZED ANTI-HUMAN-PD-1 ANTIBODY ~71:OSE IMMUNOTHERAPEUTICS, 22 BOULEVARD BENONI GOULLIN, 44200 NANTES, FRANCE, France ~72: MARY, Caroline;MORELLO, Aurore;PENGAM, Sabrina;POIRIER, Nicolas;THEPENIER, Virginie~ 33:EP ~31:18306801.4 ~32:21/12/2018

2021/04255 ~ Complete ~54:TRIPLE COMBINATION THERAPIES FOR TARGETING MITOCHONDRIA AND KILLING CANCER STEM CELLS ~71:LUNELLA BIOTECH, INC., 145 Richmond Road, Ottawa, Ontario, K1Z 1A1, Canada ~72: FEDERICA SOTGIA;MARCO FIORILLO;MICHAEL P LISANTI~ 33:US ~31:62/780,488 ~32:17/12/2018;33:US ~31:62/804,411 ~32:12/02/2019

2021/04231 ~ Complete ~54:METHOD FOR GROUTING STRENGTHENING OF GAS DRAINAGE BOREHOLES UNDER VERY SOFT COAL SEAM AND SYSTEM AND APPLICATION THEREOF ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 579 QianWangang Road, Huangdao District, Qingdao, Shandong, 266590, People's Republic of China ~72: CHEN, Shaojie;FENG, Fan;JIANG, Ning;LI, Xuelong;LIU, Qi;LIU, Rui;WANG, Feng;YIN, Dawei;ZHANG, Libo~

2021/04236 ~ Complete ~54:LINEAR COAL AND GANGUE SEPARATION DEVICE AND MULTI-THREAD COAL AND GANGUE SEPARATION SYSTEM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, ANHUI PROVINCE, People's Republic of China ~72: CHAO WANG;HUI LI;JINBO ZHU;KE YANG;YONG ZHANG~ 33:CN ~31:202011208144.8 ~32:03/11/2020

2021/04247 ~ Complete ~54:USE OF GLUTARIMIDE DERIVATIVE FOR OVERCOMING STEROID RESISTANCE AND TREATING DISEASES ASSOCIATED WITH ABERRANT INTERFERON GAMMA SIGNALING ~71:"CHEMIMMUNE THERAPEUTICS" LIMITED LIABILITY COMPANY, Skolkovo Innovation Centre, Bolshoj Blvd., 42, Building 1, 2nd floor, part of office 771, Russian Federation ~72: NEBOLSIN, Vladimir Evgenievich~ 33:RU ~31:2018141291 ~32:23/11/2018

2021/04253 ~ Complete ~54:MEDICAL FASTENING DEVICE FOR THE FASTENING OF GRAFTS ~71:ABANZA TECNOMED, S.L., Nueva 8, Oficina 11, Mutilva, E-31192, Navarra, Spain ~72: JOSÉ MANUEL ABASCAL RUBIO;JUAN ABASCAL AZANZA~ 33:EP ~31:18382946.4 ~32:19/12/2018

2021/04243 ~ Complete ~54:PARTICLE COUNTING APPARATUS, SYSTEMS AND METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: PLATTNER, Chad;STEINER, Philip~ 33:US ~31:62/822,655 ~32:22/03/2019

2021/04252 ~ Complete ~54:METALLURGICAL FURNACE ~71:REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, Wienerbergstrasse 11, Austria ~72: ZIVANOVIC, Bojan~ 33:EP ~31:19161968.3 ~32:11/03/2019

2021/04235 ~ Complete ~54:UNDERGROUND RAW COAL AND GANGUE DISCHARGE SYSTEM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, ANHUI PROVINCE, People's Republic of China ~72: CHAO WANG;HUI LI;JINBO ZHU;KE YANG;YONG ZHANG~ 33:CN ~31:202011208976.X ~32:03/11/2020

- APPLIED ON 6/22/2021 -

2021/04264 ~ Provisional ~54:SUPPORT INDICATOR AND GROUND MOVEMENT EARLY WARNING DEVICE ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/04294 ~ Complete ~54:FORMULATION OF CONTRAST MEDIA AND PROCESS OF PREPARATION THEREOF ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: BRUMBY, Thomas;EBERT, Wolfgang;FRENZEL, Thomas;HALFBRODT, Wolfgang;HOLZSCHUH, Stephan;JOST, Gregor;LOHRKE, Jessica~ 33:EP ~31:18208090.3 ~32:23/11/2018

2021/04297 ~ Complete ~54:METHOD OF INTRA PREDICTING A BLOCK OF A PICTURE ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/771,451 ~32:26/11/2018

2021/04268 ~ Provisional ~54:COVERAGE SYSTEM ~71:SPAMER, Hendrik Jacobus Venter, 16 Castle Pine Crescent, Silver Lakes Golf Estate, South Africa ~72: SPAMER, Hendrik Jacobus Venter~

2021/04269 ~ Provisional ~54:CAPE BEE HIVE ~71:Brian McGrath, 56 Kromdraai, South Africa ~72: Brian McGrath~

2021/04273 ~ Provisional ~54:DEVICE TRACKING SYSTEM AND METHOD ~71:Connect Global App Designers, Unit 121 Greenstone Ridge, Stoneridge Drive, Greenstone, Gauteng, 1609, SOUTH AFRICA, South Africa ~72: CHANG, Hsiu Chieh~

2021/04288 ~ Complete ~54:A PROCESS FOR PREPARING CHEMICALLY MODIFIED BICARBONATE SALT PARTICLES ~71:STEERLIFE INDIA PRIVATE LIMITED, #290, 4th Main, 4th Phase, India ~72: BHUSHAN, Indu;RAO, Vinay;SHETTY, Rakshith~ 33:IN ~31:201841048298 ~32:20/12/2018

2021/04272 ~ Provisional ~54:MEANS TO MONITOR CLOSURE IN MINES - SLIMTRAC ~71:Mining Product Development Manufacturing (Pty)Ltd, 10 Vegkop Street, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

- 2021/04274 ~ Complete ~54:AXIAL FLOW FAN ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: CORSINI, Alessandro;MEYER, Christiaan Johannes;MEYER, Thomas Oliver;VAN DER SPUY, Sybrand Johannes~ 33:ZA ~31:2020/01854 ~32:24/03/2020
- 2021/04289 ~ Complete ~54:FOOD MOULDING ~71:MARITZ, Rudolph Johan, 466 Kings Highway, Lynnwood, South Africa ~72: MARITZ, Rudolph Johan~ 33:ZA ~31:2018/07713 ~32:16/11/2018
- 2021/04291 ~ Complete ~54:ASSOCIATION DETERMINATION ~71:GERMISHUYS, Dennis Mark, 33 Southdowns Road, Southdowns Estate, South Africa ~72: GERMISHUYS, Dennis Mark~ 33:ZA ~31:2018/08588 ~32:20/12/2018
- 2021/04335 ~ Provisional ~54:GROOM LA BEAUTY MARKETPLACE PLATFORM ~71:Sthembile, Dover Street, South Africa ~72: Sthembile Myaka~
- 2021/04282 ~ Complete ~54:HOLDER FOR INHALER ARTICLE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: CAMPITELLI, Gennaro;DAYIOGLU, Onur;SPADARO, Fabiana;ZUBER, Gerard~ 33:EP ~31:19160897.5 ~32:05/03/2019
- 2021/04286 ~ Complete ~54:A HANDHELD MOBILE COMMUNICATION DEVICE CONNECTED DONATION RECEIVING APPARATUS ~71:DELLAS, James, 39 Flower Street, Australia ~72: DELLAS, James~ 33:AU ~31:2018904467 ~32:23/11/2018;33:AU ~31:2019902972 ~32:16/08/2019
- 2021/04292 ~ Complete ~54:RECESS STRUCTURE FOR REINFORCING CONNECTION BETWEEN RAILWAY SLEEPER AND TRACK BED, AND CONSTRUCTION METHOD ~71:CHINA RAILWAY SIYUAN SURVEY AND DESIGN GROUP CO., LTD., No.745, Heping Avenue, Yangyuan, Wuchang District, Wuhan, Hubei, 430060, People's Republic of China ~72: BIN ZHU;LI SUN;QIHANG LI;QIUYI LI;SEN RONG WANG;YANLI YANG~ 33:CN ~31:201811550015.X ~32:18/12/2018
- 2021/04293 ~ Complete ~54:MULTIGENE CONSTRUCT FOR IMMUNE-MODULATORY PROTEIN EXPRESSION AND METHODS OF USE ~71:ONCOSEC MEDICAL INCORPORATED, 24 North Main Street, Pennington, New Jersey, 08534, United States of America ~72: DAVID A CANTON~ 33:US ~31:62/778,027 ~32:11/12/2018
- 2021/04302 ~ Provisional ~54:MAMALOUS BIRTH PILLOW ~71:Sissy Kubirske, 13 Mika Street, Welgelegen 3, South Africa ~72: Sissy Kubirske~
- 2021/04296 ~ Complete ~54:MOTORIZED RAIL CAR ~71:RHT RailHaul Technologies Inc., 998 Harbourside Drive, Suite 207, NORTH VANCOUVER V7P 3T2, BC, CANADA, Canada ~72: DONNELLY, Frank Wegner~ 33:US ~31:62/778,710 ~32:12/12/2018
- 2021/04298 ~ Complete ~54:METHOD AND DEVICE FOR NON-INVASIVE ROOT PHENOTYPING ~71:Hi Fidelity Genetics, Inc., 326 W. Geer Street, DURHAM 27701, NC, USA, United States of America ~72: AGUILAR, Jeffrey;JOHNSON, Logan;MOORE, Matthew~ 33:US ~31:62/790,880 ~32:10/01/2019
- 2021/04300 ~ Complete ~54:METHOD FOR MANUFACTURING AN INSULATION PRODUCT BASED ON MINERAL WOOL ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: LEGRAND, Aurélien;OBERT, Edouard;TOULEMON, Delphine~ 33:FR ~31:1900256 ~32:11/01/2019
- 2021/04263 ~ Provisional ~54:BENEATH CHAIR BIN ~71:Johannes Mahlaola, 5523, BLOCK MOKONE STINKWATER, South Africa ~72: Johannes Mahlaola~

2021/04301 ~ Provisional ~54:CREATIVE ~71:Patrick Dunn, 74 Ogle Road, Austerville,, South Africa ~72: Patrick Dunn~

2021/04277 ~ Complete ~54:CIRCRNA DETECTION KIT FOR AUXILIARY DIAGNOSIS OF AUTISM ~71:North China University of Science and Technology, 21 Bohai Road, Caofeidian Xincheng, Tangshan City, Hebei Province, People's Republic of China ~72: Cui Lihua;Du Wenran;Feng Fumin~ 33:CN ~31:202011517202.5 ~32:21/12/2020

2021/04278 ~ Complete ~54:FREEZING PIPE AND ITS ARRANGEMENT METHOD FOR INCLINED SHAFT UNDER FAST DIGGING CONDITIONS OF ROADHEADER ~71:Anhui University of Science and Technology, 168 Taifeng St, Huainan, Anhui, People's Republic of China ~72: Cai Haibing;Cheng Hua;Rong Chuanxin;Wang Bin;Wang Zongjin;Yao Zhishu~

2021/04280 ~ Complete ~54:BISPECIFIC SINGLE-CHAIN ANTIBODY AND APPLICATION ~71:Binhui Biopharmaceutical Co., Ltd., Room B272-4, 2nd floor, B1 building, Biolake, No.666 Gaoxin Avenue, East Lake High-Tech Development Zone, Wuhan, Hubei, People's Republic of China ~72: LIU, Binlei;WANG, Runyang~ 33:CN ~31:202011265931.6 ~32:13/11/2020

2021/04281 ~ Complete ~54:METHODS AND SYSTEMS FOR USING DUTY CYCLE OF SENSORS TO DETERMINE SEED OR PARTICLE FLOW RATE ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: FRANK, William;GRAY, Tanner;PLATTNER, Chad;STRNAD, Michael~ 33:US ~31:62/855,052 ~32:31/05/2019

2021/04287 ~ Complete ~54:NOVEL FUSION PROTEINS SPECIFIC FOR CD137 AND GPC3 ~71:PIERIS PHARMACEUTICALS GMBH, Zeppelinstrasse 3, Germany ~72: BEL AIBA, Rachida Siham;BOSENMAIER, Birgit;HANSBAUER, Eva-Maria;JAQUIN, Thomas;OLWILL, Shane;PEPER-GABRIEL, Janet;SCHLOSSER, Corinna~ 33:EP ~31:19000100.8 ~32:26/02/2019

2021/04270 ~ Provisional ~54:MONITORING SYSTEM ~71:LUSHEN LEELEN NAIDOO, 53 BASROYD DRIVE, BASSONIA, South Africa ~72: RALUCA PAUNA~

2021/04267 ~ Provisional ~54:HYDRO PROPRITE PRESSURE INDICATOR AND PRESSURE RELEASE VALVE ~71:Mining Product Development Manufacturing (Pty)Ltd, 10 Vegkop Street, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell / Richard Roy Wood~

2021/04275 ~ Complete ~54:PIPE FITTING ~71:VAN ZYL, Vincent Vernon, No. 4 Dead End Road, South Africa ~72: VAN ZYL, Vincent Vernon~

2021/04284 ~ Complete ~54:(2,5-DIOXOPYRROLIDIN-1-YL) (PHENYL)-ACETAMIDE DERIVATIVES AND THEIR USE IN THE TREATMENT OF NEUROLOGICAL DISEASES ~71:UNIWERSYTET JAGIELLOŃSKI, ul. Gołębka 24, Poland;WARSZAWSKI UNIWERSYTET MEDYCZNY, ul. Żwirki i Wigury 61, Poland ~72: ABRAM, Michal;KAMIŃSKI, Krzysztof;LATACZ, Gniewomir;MOGILSKI, Szczepan;RAPACZ, Anna;SZULCZYK, Bartłomiej~ 33:PL ~31:P.428485 ~32:07/01/2019

2021/04290 ~ Complete ~54:PLANT CULTIVATION ~71:GERMISHUYS, Dennis Mark, 33 Southdowns Road, Southdowns Estate, South Africa ~72: GERMISHUYS, Dennis Mark~ 33:ZA ~31:2018/08074 ~32:29/11/2018

2021/04295 ~ Complete ~54:COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR STORING DATA ON A BLOCKCHAIN ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;TARTAN, Chloe Ceren;VAUGHAN, Owen;WRIGHT, Craig Steven~ 33:GB ~31:1819284.9 ~32:27/11/2018;33:GB ~31:1819286.4

~32:27/11/2018;33:GB ~31:1819290.6 ~32:27/11/2018;33:GB ~31:1819291.4 ~32:27/11/2018;33:GB
~31:1819293.0 ~32:27/11/2018;33:GB ~31:1819297.1 ~32:27/11/2018;33:GB ~31:1819299.7 ~32:27/11/2018

2021/04308 ~ Complete ~54:METHOD FOR IGBT OPEN-CIRCUIT FEATURE ANALYSIS AND DEEP LEARNING FAULT DIAGNOSIS OF THREE-LEVEL INVERTER ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, ZHAISHAN, NANJIAO, JIANGSU PROVINCE, People's Republic of China ~72: BING XIA;ENJIE DING;SHUXIN YANG;XIAO YU;XUNXUN WANG~

2021/04285 ~ Complete ~54:BATTERY CHARGE AND DISCHARGE POWER CONTROL IN A POWER GRID ~71:GENERAL ELECTRIC COMPANY, 1 River Road, United States of America ~72: YAN, Min~ 33:US ~31:62/799,111 ~32:31/01/2019

2021/04299 ~ Complete ~54:LOW DENSITY IRIIDIUM AND LOW DENSITY STACKS OF IRIIDIUM DISKS ~71:QSA Global Inc., 40 North Avenue, BURLINGTON 01803, MA, USA, United States of America ~72: SHILTON, Mark G.;VOSE, Mark W.~ 33:US ~31:62/803,713 ~32:11/02/2019

2021/04266 ~ Provisional ~54:HYDRO PROPRITE ~71:Mining Product Development Manufacturing (Pty)Ltd, 10 Vegkop Street, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell / Richard Roy Wood~

2021/04271 ~ Provisional ~54:HEADER ~71:Mark Lentin, 36 6th Road, South Africa ~72: Mark Lentin~

2021/04276 ~ Complete ~54:METHOD FOR KEEPING RED SAUSAGE FRESH BY EDIBLE CHITOSAN COATING ~71:Northeast Agricultural University, No. 600 Changjiang Road, Xiangfang District, Harbin, Heilongjiang Province, People's Republic of China ~72: Dong Chunhui;Du Xin;Kong Baohua;Li Haijing;Liu Qian;Pan Nan;Shi Shuo;Xia Xiufang~

2021/04279 ~ Complete ~54:SALIVARY PROTEOMIC BIOMARKERS FOR TUBERCULOSIS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, Western Cape, 7600, South Africa ~72: GERHARD WALZL;HYGON MUTAVHATSINDI;NOVEL NJWEIPI CHEGOU~ 33:ZA ~31:2020/04135 ~32:07/07/2020

2021/04265 ~ Provisional ~54:AIR POWER GENERATOR ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/04283 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING HMGB1 EXPRESSION ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: ABRAMS, Marc;CHOPDA, Girish;PARK, Jihye~ 33:US ~31:62/786,287 ~32:28/12/2018;33:US ~31:62/787,038 ~32:31/12/2018;33:US ~31:62/788,111 ~32:03/01/2019

- APPLIED ON 6/23/2021 -

2021/04306 ~ Provisional ~54:CHECKHOME DIGITAL PROPERTY SOLUTION ~71:Michael Phasha, 200 KIRKNESS AVENUE, South Africa ~72: Michael Phasha~

2021/04309 ~ Complete ~54:WELL WALL CRACK AND HOLE IDENTIFICATION AND JUDGMENT METHOD BASED ON OIL-BASED MUD ELECTRICAL IMAGING LOGGING ~71:Xi'an Shiyu University, No. 18, East Section of Electronic Second Road, Xi'an City, Shaanxi Province, People's Republic of China ~72: Gao Jianshen;Liu Yanping;Wu Jie;Xue Fei;Zhu Kairan~ 33:CN ~31:202011019657.4 ~32:25/09/2020

2021/04326 ~ Complete ~54:IGG FC VARIANTS FOR VETERINARY USE ~71:Kindred Biosciences, Inc., 1555 Bayshore Highway, Suite 200, BURLINGAME 94010, CA, USA, United States of America ~72: CHIN, Richard;LI, Shyr Jiann;LI, Yongzhong;NGUYEN, Lam;QIAN, Fawn;ZHAN, Hangjun~ 33:US ~31:62/785,680 ~32:27/12/2018

2021/04318 ~ Complete ~54:ESTROGEN RECEPTOR ANTAGONIST ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No.369 Yuzhou South Rd, Lianyungang, People's Republic of China;MEDSHINE DISCOVERY INC., Room 218, No.9 Gaoxin Road, Jiangbei New District, People's Republic of China ~72: CHEN, Shuhui;DING, Charles, Z.;DUAN, Shuwen;HU, Guoping;HU, Lihong;LI, Jian;LU, Jianyu~ 33:CN ~31:201811545117.2 ~32:17/12/2018;33:CN ~31:201910611070.3 ~32:08/07/2019;33:CN ~31:201910877339.2 ~32:17/09/2019

2021/04324 ~ Complete ~54:CD40 ANTIBODY PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:JIANGSU HENGRUI MEDICINE CO., LTD., NO. 7 KUNLUNSHAN ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE LIANYUNGANG, JIANGSU 222047, CHINA, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO. LTD., NO. 279 WENJING ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, MINHANG DISTRICT, SHANGHAI 200245, CHINA, People's Republic of China ~72: JIANG, Jiahua;LI, Hao;LIU, Xun;YANG, Jianjian~ 33:CN ~31:201811448238.5 ~32:30/11/2018

2021/04329 ~ Complete ~54:METHODS OF STARTING AN INVERTER SYSTEM, AND INVERTER SYSTEMS ~71:GE Energy Power Conversion Technology Ltd, Boughton Road, RUGBY CV21 1BU, WARWICKSHIRE, UNITED KINGDOM, United Kingdom ~72: BRÜCKNER, Thomas;GESKE, Martin;GLOES, Hendrik~ 33:EP ~31:18211113.8 ~32:07/12/2018

2021/04316 ~ Complete ~54:HEAVY-LOAD VEHICLE ~71:GOLDHOFER AG, Donaustr. 95, Memmingen, Germany ~72: HÄFELE, Horst;KOSTER, Johan~ 33:EP ~31:PCT/EP2018/086896 ~32:31/12/2018

2021/04325 ~ Complete ~54:FOOD OR BEVERAGE PRODUCT WITH AGGLOMERATED PEA PROTEIN ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: AMAGLIANI, Luca;SCHMITT, Christophe Joseph Etienne;VAN DE LANGERIJT, Tessa Marianne~ 33:EP ~31:18209814.5 ~32:03/12/2018

2021/04332 ~ Complete ~54:CALCINEURIN INHIBITOR RESISTANT IMMUNE CELLS FOR USE IN ADOPTIVE CELL TRANSFER THERAPY ~71:UNIVERSITÄT BASEL, Vizerektorat Forschung Petersgraben 35, 4001, BAS, Switzerland ~72: LUKAS JEKER;MARIANNE DÖLZ~ 33:EP ~31:19155132.4 ~32:01/02/2019

2021/04303 ~ Provisional ~54:PACKAGE TRANSPORTATION HANDLING SYSTEM AND METHOD ~71:VAN DE MERWE, Christiaan Hendrik Gert, 1 Wilgelaan, South Africa ~72: VAN DE MERWE, Christiaan Hendrik Gert~

2021/04321 ~ Complete ~54:AQUEOUS PAEDIATRIC RETINOL FORMULATIONS ~71:ORPHANIX GMBH, LEDERERGASSE 18/1, 4020 LINZ, AUSTRIA, Austria ~72: BAUER, Jochen;NOVAK, Philipp;SELIGER, Christian~ 33:EP ~31:18208340.2 ~32:26/11/2018

2021/04323 ~ Complete ~54:METHODS FOR SEPARATING REFERENCE SYMBOLS AND USER DATA IN A LOWER LAYER SPLIT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: ÖSTERLING, Jacob~ 33:US ~31:62/773,599 ~32:30/11/2018

2021/04317 ~ Complete ~54:IL-2 CONJUGATES AND METHODS OF USE THEREOF ~71:SYNTHORX, INC., 11099 North Torrey Pines Road, Suite 290, United States of America ~72: CAFFARO, Carolina E.;MILLA, Marcos;PTACIN, Jerod~ 33:US ~31:62/802,191 ~32:06/02/2019;33:US ~31:62/847,844 ~32:14/05/2019;33:US ~31:62/870,581 ~32:03/07/2019;33:US ~31:62/899,035 ~32:11/09/2019;33:US ~31:62/940,173 ~32:25/11/2019

2021/04322 ~ Complete ~54:ACRYLIC FOILS WITH IMPROVED UV-PROTECTION PROPERTIES ~71:Röhm GmbH, Deutsche-Telekom-Allee 9, 64295 Darmstadt, Germany, Germany ~72: ENDERS,

Michael;GROOTHUES, Herbert;GUÉNANTEN, Claude;SEYOUUM, Ghirmay;STRUWE. Kim~ 33:EP
~31:18209151.2 ~32:29/11/2018

2021/04331 ~ Complete ~54:SMALL-SCALE ROBOTS FOR BIOFILM ERADICATION ~71:THE TRUSTEES OF
THE UNIVERSITY OF PENNSYLVANIA, 3600 Civic Center Boulevard 9th Floor, Philadelphia, Pennsylvania,
19104, United States of America ~72: EDWARD STEAGER;ELIZABETH HUNTER;EVAN BRINK;HYUN
KOO;KATHLEEN STEBE;VIJAY KUMAR~ 33:US ~31:62/772,306 ~32:28/11/2018

2021/04313 ~ Complete ~54:VASOPRESSIN RECEPTOR ANTAGONISTS AND PRODUCTS AND METHODS
RELATED THERETO ~71:BlackThorn Therapeutics, Inc., 780 Brannan Street, SAN FRANCISCO 94103, CA,
USA, United States of America ~72: BRANDT, Gary;CHAMBERS, Mark;HARDICK, David;JONES, Robert
M.;KNIGHT, Chris;LOCK, Chris;TIERNEY, Jason;URBANO, Mariangela~ 33:US ~31:62/554,452
~32:05/09/2017

2021/04320 ~ Complete ~54:TRANSMISSION POWER CONTROL FOR A RADIO BASE STATION
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72:
HOGAN, Billy;WIGREN, Torbjörn~

2021/04327 ~ Complete ~54:PROCESS FOR PREPARING A GIP/GLP1 DUAL AGONIST ~71:Eli Lilly and
Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: COFFIN,
Stephanie Ruth;FREDERICK, Michael Oliver;JALAN, Ankur;KALLMAN, Neil John;KOPACH, Michael
Eugene;SEIBERT, Kevin Dale;TSUKANOV, Sergey Vladimirovich~ 33:US ~31:62/797,963
~32:29/01/2019;33:US ~31:62/815,053 ~32:07/03/2019;33:US ~31:62/818,342 ~32:14/03/2019

2021/04334 ~ Complete ~54:IMAGE ENCODING DEVICE, IMAGE ENCODING METHOD, IMAGE ENCODING
PROGRAM, IMAGE DECODING DEVICE, IMAGE DECODING METHOD, AND IMAGE DECODING PROGRAM
~71:JVCKENWOOD CORPORATION, 3-12, Moriyacho, Kanagawa-ku, Yokohama-shi Kanagawa, 2210022,
Japan ~72: HIDEKI TAKEHARA;HIROYA NAKAMURA;HIROYUKI KURASHIGE;SATORU
SAKAZUME;SHIGERU FUKUSHIMA;TORU KUMAKURA~ 33:JP ~31:2018-247413 ~32:28/12/2018;33:JP
~31:2019-082764 ~32:24/04/2019

2021/04311 ~ Complete ~54:PORTABLE AND DISPOSABLE URINARY DEVICE ~71:BUDHIA, Joshna, Unit 22
Villa Capri, 91 Soetdoering Street, BASSONIA, 2190, Gauteng, SOUTH AFRICA, South Africa ~72: BUDHIA,
Joshna~ 33:ZA ~31:2020/04004 ~32:01/07/2020

2021/04304 ~ Provisional ~54:MULTIFUNCTION VISOR ~71:Denis KRASSAS, 4 Smyrna Court 195 Nigel Road
Selcourt, South Africa ~72: Denis KRASSAS~

2021/04319 ~ Complete ~54:METHOD AND ASSEMBLY FOR ENERGY ABSORPTION FOR PROTECTION
AGAINST DAMAGE IN AN OVERLOAD EVENT ~71:GENERAL DYNAMICS EUROPEAN LAND SYSTEMS-
MOWAG GMBH, UNTERSEESTR. 65, CH-8280 KREUZLINGEN, SWITZERLAND, Switzerland ~72: LIST, Hans-
Jörg~ 33:DE ~31:10 2018 130 002.6 ~32:27/11/2018

2021/04312 ~ Complete ~54:A GROUT MONITORING DEVICE FOR AN ANCHOR ~71:Bowima (Pty) Ltd, 101
Mooi Avenue, KRIEL 2271, SOUTH AFRICA, South Africa;Dun-Cron Electrical CC, 20 Albatross Street,
SECUNDA 2302, SOUTH AFRICA, South Africa ~72: BOSHOFF, Pieter Gerhardus;CRONJE, Michael
Duncan;CRONJE, Willem Hendrik;MAKAZA, Thabiso Michael;WILKEN, Jacobus Johannes~

2021/04328 ~ Complete ~54:AZA-HETEROBICYCLIC INHIBITORS OF MAT2A AND METHODS OF USE FOR
TREATING CANCER ~71:Les Laboratoires Servier SAS, 50 rue Carnot, SURESNES CEDEX 92284, FRANCE,

France ~72: KONTEATIS, Zenon D.;LI, Mingzong;REZNIK, Samuel K.;SUI, Zhihua;TRAVINS, Jeremy M.~ 33:US
~31:62/785,574 ~32:27/12/2018

2021/04305 ~ Provisional ~54: DRYING AND CLEANSING DEVICE ~71: TRAUB, Jonathan, 6690 Torenia Trail,
United States of America ~72: TRAUB, Jonathan~

2021/04307 ~ Provisional ~54: CONTINUOUS SEPARATION OF GASSES ~71: HUMAN, Jan Petrus, 10 Clifford
Road, Chanclyff, South Africa ~72: HUMAN, Jan Petrus~

2021/04330 ~ Complete ~54: ELECTRIC RESISTANCE WELDED STEEL PIPE OR TUBE ~71: JFE STEEL
CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 100011, Japan ~72: MASATOSHI
ARATANI;RYOJI MATSUI;TOMONORI KONDOU~ 33:JP ~31:2018-237698 ~32:19/12/2018

2021/04315 ~ Complete ~54: INCINERATION APPARATUS AND METHOD ~71: DOOSAN LENTJES GMBH,
Daniel-Goldbach-Strasse 19, Germany ~72: BROSCHE, Björn;KARPINSKI, Andreas;NARIN, Oguzhan~
33:EP ~31:18191498.7 ~32:29/08/2018

2021/04310 ~ Complete ~54: VALVE WITH INTEGRATED LEVEL INDICATOR ~71: MANZILA, Mabwanga
Hugues, 59 The View, 487 Boundary Road, North Riding AH, Johannesburg, 2188, South Africa ~72: MANZILA,
Mabwanga Hugues~ 33:ZA ~31:2020/04131 ~32:07/07/2020

2021/04314 ~ Complete ~54: METHOD TO CONDITION AND CONTROL SUPERCRITICAL LIQUEFIED
PETROLEUM GASES FUEL FLOW FOR OPERATION IN GAS TURBINES ~71: GENERAL ELECTRIC
COMPANY, 1 River Road, United States of America ~72: CASTILLO CAMPOS, Jesus Daniel;GODINEZ,
Horacio Solis;SANCHEZ HERRERA, Jose Carlos;SCHORNICK, Joe F.~ 33:US ~31:16/936,982 ~32:23/07/2020

2021/04333 ~ Complete ~54: A LIFTING APPARATUS ~71: ANNA LAWRENCE, 21 Cowper Road, Bournemouth,
Dorset, BH9 2UJ, United Kingdom ~72: STEPHEN MARSH~ 33:GB ~31:1900814.3 ~32:21/01/2019

- APPLIED ON 6/24/2021 -

2021/04375 ~ Complete ~54: DNA-ENCODED BISPECIFIC T-CELL ENGAGERS TARGETING CANCER
ANTIGENS AND METHODS OF USE IN CANCER THERAPUTICS ~71: The Wistar Institute of Anatomy and
Biology, 3601 Spruce Street, PHILADELPHIA 19104, PA, USA, United States of America ~72: DUPERRÉ,
Elizabeth;MUTHUMANI, Kar;PERALES-PUCHALT, Alfredo;WEINER, David~ 33:US ~31:62/798,626
~32:30/01/2019;33:US ~31:62/827,265 ~32:01/04/2019

2021/04368 ~ Complete ~54: DNA MONOCLONAL ANTIBODIES TARGETING PD-1 FOR THE TREATMENT
AND PREVENTION OF CANCER ~71: The Wistar Institute of Anatomy and Biology, 3601 Spruce Street,
PHILADELPHIA 19104, PA, USA, United States of America ~72: PERALES PUCHALT, Alfredo;WEINER, David
B.~ 33:US ~31:62/791,146 ~32:11/01/2019

2021/04373 ~ Complete ~54: MODULE AND ASSEMBLY FOR UNDERGROUND MANAGEMENT OF FLUIDS
FOR SHALLOW-DEPTH APPLICATIONS ~71: StormTrap LLC, 1287 Windham Parkway, ROMEOVILLE 60446,
IL, USA, United States of America ~72: BORESI, Lynn;CARNCROSS, Doug;GROSS, Dean;HAWKEN,
Jamie;HERATY, Tom;HOUCK, Jason;LOWELL, Aaron;MCCREADY, Kyle~ 33:US ~31:62/780,027
~32:14/12/2018

2021/04336 ~ Provisional ~54: CUPBOARD HINGE REPAIR PLATE 2 ~71: Ferdinand van Zyl, 82 Hesperus rd,
Raceview, South Africa ~72: Ferdinand van Zyl~

2021/04347 ~ Complete ~54:SELF-SERVICE GASTRIC TUBE FEEDING DEVICE WITH CONTROLLABLE SPEED AND TEMPERATURE ~71:Medical Apparatus and Equipment Deployment, Nanfang Hospital, Southern Medical University, Guangzhou, China, No. 1838, North Guangzhou Avenue, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China ~72: Chen Hongwen;Fang Yihai;Jiang Jinda;Ling Qingqing;Shen Zenggui;Sun Yao~

2021/04360 ~ Complete ~54:IMMUNOGLOBULIN BINDING PROTEINS FOR AFFINITY PURIFICATION ~71:NAVIGO PROTEINS GMBH, Heinrich Damerow Str. 1, 06120, Halle/Saale, Germany ~72: ERIK FIEDLER;MATHIAS KAHL~ 33:EP ~31:19154972.4 ~32:01/02/2019;33:EP ~31:19193552.7 ~32:26/08/2019

2021/04367 ~ Complete ~54:A BEVERAGE POD ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GIRARDIN, Pascal;GRES, Nicolas;HEYDEL, Christophe Sébastien Paul~ 33:EP ~31:18210108.9 ~32:04/12/2018

2021/04348 ~ Complete ~54:COMPREHENSIVE SEWAGE PURIFICATION TREATMENT APPARATUS FOR ENVIRONMENTAL ENGINEERING ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: XU, Xiaohui;YANG, Liuyin~

2021/04351 ~ Complete ~54:METHOD AND SYSTEM FOR ENERGY DETECTION ~71:GURIKAR, Ayyanna, 996 BCCH LAYOUT, VAJARAHALLI, KANAKAPURA MAIN ROAD, India;JANGRA, Amrish, GURUKUL KANGRI UNIVERSITY, India;KY, Prashanth, MAHABALESWARAPPA ENGINEERING COLLEGE BELLARY KARNATAKA, VTU UNIVERSITY, CANTONMENT BELLARY, India;MALIK, Gorav Kumar, GURUKUL KANGRI UNIVERSITY, India;MALIK, Kamal, CT UNIVERSITY, LUDHIANA, India;MARRIWALA, Nikhil, UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, KURUKSHETRA UNIVERSITY, India;NAINWA, Ashish, GURUKUL KANGRI UNIVERSITY, India;PANDA, Sunita, GITAM SCHOOL OF TECHNOLOGY, BENGALURU CAMPUS, India;SAIRAM, Kanduri Venkata Satya Siva Subrahmanya Surya, KARKALA TALUK, UDUPI DISTRICT, India;SHANDILYA, Smita, SAGAR INSTITUTE OF RESEARCH & TECHNOLOGY, India;SINGH, Chandra, SAHYADRI COLLEGE OF ENGINEERING & MANAGEMENT, ADYAR, India;SREENIVASU, Sirasanagondla Venkata Naga, NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, ANDHRA, India ~72: GURIKAR, Ayyanna;JANGRA, Amrish;KY, Prashanth;MALIK, Gorav Kumar;MALIK, Kamal;MARRIWALA, Nikhil;NAINWA, Ashish;PANDA, Sunita;SAIRAM, Kanduri Venkata Satya Siva Subrahmanya Surya;SHANDILYA, Smita;SINGH, Chandra;SREENIVASU, Sirasanagondla Venkata Naga~

2021/04358 ~ Complete ~54:PRODUCTION OF LITHIUM CHEMICALS AND METALLIC LITHIUM ~71:ICSIP PTY LTD, Level 5, 6-10 O'Connell Street , Sydney, New South Wales, 2000, Australia ~72: RICHARD HUNWICK~ 33:AU ~31:2018904540 ~32:29/11/2018

2021/04363 ~ Complete ~54:A COMPOSITION FOR THE TREATMENT OF PERIODONTITIS AND REGENERATION OF INTERDENTAL PAPILLA ~71:MASTELLI S.R.L., Via Bussana Vecchia 32 , 18038, Sanremo (Imperia), Italy ~72: CLAUDIA PRUSSIA;GIOVANNI PRUSSIA;GIULIA CATTARINI MASTELLI~ 33:IT ~31:10201900001081 ~32:24/01/2019

2021/04366 ~ Complete ~54:SYSTEMS AND METHODS FOR EFFICIENT AND SECURE PROCESSING, ACCESSING AND TRANSMISSION OF DATA VIA A BLOCKCHAIN NETWORK ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;TARTAN, Chloe Ceren;VAUGHAN, Owen;WRIGHT, Craig Steven~ 33:GB ~31:1819284.9 ~32:27/11/2018;33:GB ~31:1819286.4 ~32:27/11/2018;33:GB ~31:1819290.6 ~32:27/11/2018;33:GB ~31:1819291.4 ~32:27/11/2018;33:GB ~31:1819293.0 ~32:27/11/2018;33:GB ~31:1819297.1 ~32:27/11/2018;33:GB ~31:1819299.7 ~32:27/11/2018

2021/04339 ~ Provisional ~54:UMBRELLA ACCESSORIES ~71:Hooked on Brollies (Pty) Ltd, 6 Rosheen Crescent, South Africa ~72: LANDER, Kim;LANDER, Wayne Anthony~

2021/04345 ~ Complete ~54:FLANGE ALIGNER FOR MINE PIPELINE ~71:Anhui University of Science and Technology, 168 Taifeng street, High Tech Development Zone, Huainan City, Anhui Province, People's Republic of China ~72: He Xiang;Ji Jianshuai;Wei Zhen;Yang Ke;Zhang Jiqiang;Zhao Xinyuan~

2021/04376 ~ Complete ~54:SOFT TISSUE IMPLANT SYSTEMS, INSTRUMENTS AND RELATED METHODS ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: ALLARD, Randy;BRINKER, Laura Zagrocki;DACOSTA, Albert;HARTSON, Kyle James~ 33:US ~31:62/775,591 ~32:05/12/2018;33:US ~31:62/883,429 ~32:06/08/2019

2021/04342 ~ Provisional ~54:A TRANSACTION SYSTEM AND METHOD ~71:HONEYWELL, Sean William, 161 Falcon Crescent, Brettenwood Coastal Estate, Sheffield Beach Main Road, Sheffield Beach, Durban 4390, SOUTH AFRICA, South Africa ~72: HONEYWELL, Sean William~

2021/04356 ~ Complete ~54:MONOCLONAL ANTIBODIES THAT BIND SPECIFICALLY TO HUMAN TRBV9 ~71:JOINT STOCK COMPANY "BIOCAD", Liter A. Svyazi st., 34, Strelna, Petrodvortsoviy district, Russian Federation ~72: ANIKINA, Arina Vitalevna;BRITANOVA, Olga Vladimirovna;EVSTRATEVA, Anna Valentinovna;IAKOVLEV, Pavel Andreevich;IVANOV, Roman Alekseevich;LUKYANOV, Sergey Anatolievich;MISORIN, Alexey Konstantinovich;MOROZOV, Dmitry Valentinovich;NEMANKIN, Timofey Aleksandrovich;SCHHEMELEVA, Mariia Aleksandrovna;STAROVEROV, Dmitry Borisovich;VLADIMIROVA, Anna Konstantinovna~ 33:RU ~31:2018146029 ~32:25/12/2018

2021/04365 ~ Complete ~54:ADJUSTABLE FULL-BODY PROTECTION GEAR ~71:CHAIRMAN, DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION (DRDO), Ministry of Defence, Govt. of India Room 348, India ~72: CHAUDHARY, Yashmita;KAKKAR, Deepika;KUMAR, Bhuvnesh;PANJWANI, Usha;RAWAT, Shweta;SINGH, Inderjeet;VARTE, Lalhmunlien Robert~ 33:IN ~31:201811049060 ~32:26/12/2018;33:IN ~31:201811049452 ~32:27/12/2018;33:IN ~31:201911028442 ~32:15/07/2019

2021/04350 ~ Complete ~54:ARRANGEMENT, CIRCUIT BREAKER AND PRECHARGING DEVICE FOR A DC POWER NETWORK ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: HAUER, Wolfgang~ 33:GB ~31:2009938.8 ~32:30/06/2020

2021/04349 ~ Complete ~54:OXYGEN SELF-RESCUER AND PROCESS FOR AN OXYGEN SELF-RESCUER ~71:Dräger Safety AG & Co. KGaA, Revalstrasse 1, Germany ~72: Timo TRALAU~ 33:DE ~31:102020117130.7 ~32:30/06/2020

2021/04352 ~ Complete ~54:AEROSOL-GENERATING SUBSTRATE COMPRISING AN AEROSOL-GENERATING FILM ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: CAPELLI, Sébastien;DAYIOGLU, Onur;EMMETT, Robert;VOLLMER, Jean-Yves~ 33:EP ~31:19167966.1 ~32:08/04/2019

2021/04369 ~ Complete ~54:ORALLY ACTIVE PRODRUG OF GEMCITABINE ~71:TNT Medical Corporation, Voltstrasse 6, ZURICH CH-8044, SWITZERLAND, Switzerland ~72: CHENG, Starr Sing Chung;LI, Bing Ying;LI, Xiang;WANG, Andrew~ 33:US ~31:62/771,100 ~32:25/11/2018

2021/04338 ~ Provisional ~54:CLOSURE DEVICES ~71:LANDER, Wayne Anthony, 6 Rosheen Crescent, South Africa ~72: LANDER, Kim;LANDER, Wayne Anthony~

2021/04344 ~ Complete ~54:NUT-CRACKING APPARATUS ~71:SOUTH GEORGIA PECAN COMPANY, INC., 309 South Lee St., United States of America ~72: MITCHELL, John;WORN, Jeffrey Jinnin~ 33:US ~31:63/044,348 ~32:25/06/2020

2021/04353 ~ Complete ~54:MULTISPECIFIC BINDING PROTEINS WITH MUTANT FAB DOMAINS ~71:SANOVI, 54 rue La Boëtie, France ~72: AMARAL, Marta;BEIL, Christian;FOCKEN, Ingo;HESSLER, Gerhard;HOELPER, Soraya;JUNG, Jennifer;LANGE, Christian;LEUSCHNER, Wulf Dirk;RAO, Ercole;TIWARI, Garima;WEIL, Sandra~ 33:EP ~31:18306843.6 ~32:24/12/2018;33:EP ~31:19305812.0 ~32:21/06/2019

2021/04361 ~ Complete ~54:FOOD AND ADDITIVE COMPOSITIONS, AND ALSO USES OF LIGNIN AND THE ADDITIVE COMPOSITION ~71:SUZANO S.A., Avenida Professor Magalhães Neto, 1.752, 10&andar, salas 1010 e 1011, 41810-012 Pituba, Salvador, Bahia, Brazil ~72: HENRIQUE BUENO DA SILVA;VIN&CIUS FERNANDES NUNES DA SILVA~ 33:BR ~31:BR1020180768131 ~32:20/12/2018

2021/04364 ~ Complete ~54:CONOTOXIN PEPTIDE ANALOGS AND USES FOR THE TREATMENT OF PAIN AND INFLAMMATORY CONDITIONS ~71:KINETA CHRONIC PAIN, LLC, 219 Terry Avenue North, Suite 300, Seattle, Washington, 98109, United States of America ~72: ERIC J TARCHA;JEFFREY J POSAKONY;JOSE MERCADO;SHAWN IADONATO~

2021/04337 ~ Provisional ~54:BATTERIES MOTOR OPERATED DIRECT COUPLED WITH GENERATOR TO PRODUCE ELECTRICITY ~71:Motlalepula Mosia, 20126 peter mokaba street, mandela park,khayelitsha, South Africa ~72: Motlalepula Mosia~

2021/04346 ~ Complete ~54:A CONSTRUCTION TECHNOLOGY FOR ANCHOR BOLT HOLE AT BOTTOM CORNER OF SOFT ROCK ROADWAY ~71:Anhui University of Science and Technology, No.168 Taifeng Street, Huainan City, Anhui Province, People's Republic of China;Engineering and Technology Research Institute , Ping'an Coal Mining Co., Ltd., No. 6 Building, Wisdom Valley, High Tech Zone, Huainan City, Anhui Province, People's Republic of China;Huaihe Energy holding Group Coal Industry Co., Ltd., No.1, Dongshan Middle Road, Tianjia District, Huainan City, Anhui Province, People's Republic of China ~72: Cao Feifei;Hao Pengwei;Jing Laiwang;Jing Wei;Luo Yong;Wang Chuanbing;Xu Shaodong;Xue Weipei~

2021/04359 ~ Complete ~54:CONVEYING DEVICE, PROCESSING INSTALLATION, METHOD FOR CONVEYING AND/OR PROCESSING OBJECTS ~71:D&RR SYSTEMS AG, Carl-Benz-Strasse 34, 74321, Bietigheim-Bissingen, Germany ~72: BENNY FRASCH;DIRK BARTSCH;JOHANNES BAYHA;MARTIN WEIDLE;MICHAEL LAUER;PETER REMPP;STEFANO BELL~ 33:DE ~31:10 2019 200 307.9 ~32:11/01/2019;33:DE ~31:10 2019 200 308.7 ~32:11/01/2019;33:DE ~31:10 2019 200 310.9 ~32:11/01/2019;33:DE ~31:10 2019 200 311.7 ~32:11/01/2019;33:DE ~31:20 2019 100 145.3 ~32:11/01/2019;33:DE ~31:10 2019 206 729.8 ~32:09/05/2019

2021/04371 ~ Complete ~54:MODIFIED UROKINASE-TYPE PLASMINOGEN ACTIVATOR POLYPEPTIDES AND METHODS OF USE ~71:Catalyst BioSciences, Inc., 611 Gateway Boulevard, Suite 710, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: FURFINE, Eric Steven;MADISON, Edwin L.;POPKOV, Mikhail;SOROS, Vanessa;THANOS, Christopher;TIPTON, Kimberly;TRAYLOR, Matthew John;WAY, Jeffrey Charles~ 33:US ~31:62/786,302 ~32:28/12/2018

2021/04370 ~ Complete ~54:MINE OPERATIONS ANALYSIS AND CONTROL ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: MANNONEN, Petri;MARTIKAINEN, Pekka~ 33:EP ~31:18248248.9 ~32:28/12/2018

2021/04374 ~ Complete ~54:AMORPHOUS SPARSENTAN COMPOSITIONS ~71:Travere Therapeutics, Inc., 3611 Valley Centre Drive, Suite 300, SAN DIEGO 92130, CA, USA, United States of America ~72: HULVAT, James Francis;MACIKENAS, Dainius;RUBY, Kale;WU, Xiangming~ 33:US ~31:62/783,947 ~32:21/12/2018

2021/04341 ~ Provisional ~54:TANK LEVEL INDICATOR ~71:Johannes Jacobus Naude, 12 Arend avenue, South Africa ~72: Johannes Jacobus Naude~

2021/04355 ~ Complete ~54:PROBIOTIC FEED FOR AQUACULTURE ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, Rondebosch, South Africa ~72: COYNE, Vernon Errol;MOXLEY, Karis~ 33:GB ~31:1821191.2 ~32:24/12/2018

2021/04372 ~ Complete ~54:ANTI-CTLA4 ANTIBODIES AND METHODS OF USE THEREOF ~71:Xilio Development, Inc., 828 Winter Street, WALTHAM 02451, MA, USA, United States of America ~72: KAROW, Margaret~ 33:US ~31:62/785,111 ~32:26/12/2018

2021/04377 ~ Complete ~54:CABLE FOR ELECTRIC VEHICLE CHARGING PILE, PREPARING METHOD AND STRANDING DEVICE OF WEAK CURRENT FLEXIBLE CORE ~71:WUXISHI HUAMEI CABLE CO., LTD, No. 18, Huadu Road, Industrial Concentration Zone, Guanlin Town, Yixing City, Jiangsu Province, People's Republic of China ~72: CHENG, Bin;HUA, Hongbin;HUA, Jian;WANG, Jingyi;ZHANG, Linrui~ 33:CN ~31:201910391257.7 ~32:12/05/2019

2021/04362 ~ Complete ~54:ITACONATE SURFACTANTS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NIVEDITA JAGDISH PATIL;RAMAKRISHNAN SUBRAMANIAN;SAHELI CHAKRABORTY;SUJOY BEJ;SUMANA ROYCHOWDHURY~ 33:EP ~31:19150712.8 ~32:08/01/2019

2021/04340 ~ Provisional ~54:APPARATUS AND SYSTEM FOR MEASURING FOULING PARAMETERS IN A FLUID ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: KLOPPER, Kyle Brent;WOLFAARDT, Gideon~

2021/04343 ~ Provisional ~54:SMARTCITIZENSSMARTCITIES ~71:Ahmed Khan, 84 Somtseu Road, South Africa ~72: Ahmed Khan~

2021/04354 ~ Complete ~54:QUINOLINE COMPOUNDS AS INHIBITORS OF TAM AND MET KINASES ~71:ARRAY BIOPHARMA INC., 3200 Walnut Street, Boulder, United States of America ~72: COOK, Adam;HINKLIN, Ronald, Jay;MCNULTY, Oren, T.~ 33:US ~31:62/787,965 ~32:03/01/2019;33:US ~31:62/858,819 ~32:07/06/2019;33:US ~31:62/947,720 ~32:13/12/2019

2021/04357 ~ Complete ~54:MONOCLONAL ANTIBODIES AGAINST THE BETA CHAIN REGION OF HUMAN TRBV9 ~71:JOINT STOCK COMPANY "BIOCAD", Liter A. Svyazi st., 34, Strelna, Petrodvortsoviy district, Russian Federation ~72: ANIKINA, Arina Vitalevna;BRITANOVA, Olga Vladimirovna;EVSTRATEVA, Anna Valentinovna;IAKOVLEV, Pavel Andreevich;IVANOV, Roman Alekseevich;LUKYANOV, Sergey Anatolievich;MISORIN, Alexey Konstantinovich;MOROZOV, Dmitry Valentinovich;NEMANKIN, Timofey Aleksandrovich;SHCHEMELEVA, Mariia Aleksandrovna;STAROVEROV, Dmitry Borisovich;VLADIMIROVA, Anna Konstantinovna~ 33:RU ~31:2018146031 ~32:25/12/2018

2021/04378 ~ Complete ~54:DRY POWDER INHALATION FORMULATION AND ITS USE FOR THE THERAPEUTIC TREATMENT OF LUNGS ~71:UNIVERSIT#201; LIBRE DE BRUXELLES, Avenue F.D. Roosevelt 50, Belgium ~72: AMIGHI, Karim;ROSI#200;RE, R#233;mi;WAUTHOZ, Nathalie~ 33:EP ~31:18248302.4 ~32:28/12/2018

2021/04381 ~ Complete ~54:ANTI-INFLAMMATORY REPAIR ESSENCE CONTAINING NATURAL ACTIVE COMPONENT AND PREPARATION METHOD THEREFOR ~71:OCEAN UNIVERSITY OF CHINA, NO. 238 SONGLING ROAD, People's Republic of China ~72: CHEN, XIAODAN;FU, XIAOTING;SONG, WENJIA~ 33:CN ~31:202011343324.7 ~32:26/11/2020

- APPLIED ON 6/25/2021 -

2021/04379 ~ Provisional ~54:RACHUENE MONEY DISINFECTOR ~71:Kgalema Lefa, Maijane, South Africa ~72: Kgalema Lefa~ 33:ZA ~31:ZA2021ABCSDJ ~32:23/06/2021

2021/04382 ~ Complete ~54:ELECTROMAGNETIC METHOD PERSPECTIVE EXPLORATION SYSTEM AND METHOD FOR COAL SEAM ROOF WATER ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: HAN, Dan;HU, Xiongwu;KONG, Bingqing;XU, Hu~

2021/04393 ~ Complete ~54:SUPPORT SUSPENSION TYPE TUNNELING-ANCHORING-SUPPORTING OPERATION PLATFORM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: CHENG, Gang;DENG, Haishun;GUO, Yongcun;HU, Kun;LI, Deyong;SU, Guoyong;WANG, Pengyu;WANG, Shuang~ 33:CN ~31:202110503524.2 ~32:10/05/2021

2021/04397 ~ Complete ~54:HYBRID AIR COOLING SYSTEM AND METHOD ~71:CRYOGEL, 37 rue La Pérouse, France ~72: VERMEULEN, Christoffel Johannes~ 33:ZA ~31:2019/00650 ~32:31/01/2019

2021/04404 ~ Complete ~54:COMPOSITIONS AND METHODS FOR CARRYING OUT ASSAY MEASUREMENTS ~71:MESO SCALE TECHNOLOGIES, LLC, 1601 Research Boulevard, Rockville, Maryland, 20850, United States of America ~72: ALEXANDER K TUCKER-SCHWARTZ;GEORGE SIGAL~ 33:US ~31:62/787,892 ~32:03/01/2019

2021/04409 ~ Complete ~54:COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR ENABLING ACCESS TO DATA STORED ON A BLOCKCHAIN ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DAVIES, Jack Owen;TARTAN, Chloe Ceren;VAUGHAN, Owen;WRIGHT, Craig Steven~ 33:GB ~31:1819284.9 ~32:27/11/2018;33:GB ~31:1819286.4 ~32:27/11/2018;33:GB ~31:1819290.6 ~32:27/11/2018;33:GB ~31:1819291.4 ~32:27/11/2018;33:GB ~31:1819293.0 ~32:27/11/2018;33:GB ~31:1819297.1 ~32:27/11/2018;33:GB ~31:1819299.7 ~32:27/11/2018

2021/04413 ~ Complete ~54:COMMUNICATING PRINT COMPONENT ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James Michael;LINN, Scott A.;NESS, Erik D.;ROSSI, John~

2021/04418 ~ Complete ~54:PRINT COMPONENT WITH MEMORY CIRCUIT ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James Michael;NG, Boon Bing~ 33:IB ~31:2019/016725 ~32:06/02/2019;33:IB ~31:2019/016817 ~32:06/02/2019

2021/04430 ~ Complete ~54:UPDATING INFUSION PUMP DRUG LIBRARIES AND OPERATIONAL SOFTWARE IN A NETWORKED ENVIRONMENT ~71:ICU MEDICAL, INC., 951 Calle Amanecer, United States of America ~72: DEOSTHALE, Chaitanya;ENGER, Larry;ISENSEE, Anthony;KRABBE, Dennis;XAVIER, Ben~ 33:US ~31:62/699,454 ~32:17/07/2018

2021/04391 ~ Complete ~54:TRAY DRYER ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Tao;LUAN, Jingjing;LUAN, Zhenhui;ZHANG, Liming~

2021/04423 ~ Complete ~54:AZA-HETEROBICYCLIC INHIBITORS OF MAT2A AND METHODS OF USE FOR TREATING CANCER ~71:Les Laboratoires Servier SAS, 50 rue Carnot, SURESNES CEDEX 92284, FRANCE, France ~72: KONTEATIS, Zenon D.;LI, Mingzong;REZNIK, Samuel K.;SUI, Zhihua~ 33:US ~31:62/785,519 ~32:27/12/2018

2021/04380 ~ Provisional ~54:UV-C MASK ~71:Phillip van Heerden, 59 Rietkol, South Africa ~72: Phillip van Heerden~ 33:ZA ~31:1 ~32:24/06/2021

2021/04428 ~ Complete ~54:METHOD AND APPARATUS OF INTERPOLATION FILTERING FOR PREDICTIVE CODING ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/784,319 ~32:21/12/2018

2021/04394 ~ Complete ~54:PAPER-BASED GEL THREAD, PREPARATION METHOD THEREFOR AND CIGARETTE CONTAINING SAME ~71:CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD, No. 367, Hongjin Road, Wuhua District, People's Republic of China ~72: CHEN, Yongkuan;CHENG, Jinghui;DOU, Yuanchun;GONG, Weimin;HAN, Jingmei;HONG, Liu;LEI, Ping;LI, Zhiqiang;LIU, Lingxuan;MA, Xiaolong;MAO, Deshou;SHANG, Shanzhai;SU, Yang;TANG, Jianguo;WANG, Chengya;WANG, Ru;WANG, Yifan;WU, Jun;XU, Xiaoli;YANG, Wen;ZHENG, Xudong~ 33:CN ~31:201910318783.0 ~32:19/04/2019;33:CN ~31:201910319688.2 ~32:19/04/2019

2021/04405 ~ Complete ~54:OPHTHALMIC PHARMACEUTICAL COMPOSITIONS AND METHODS FOR TREATING OCULAR SURFACE DISEASE ~71:SURFACE OPHTHALMICS, INC., 5000 Hopyard Road, Suite 402, Pleasanton, California, 94588, United States of America ~72: DENNIS ELIAS SAADEH;KAMRAN HOSSEINI;RICHARD L LINDSTROM~ 33:US ~31:62/785,312 ~32:27/12/2018

2021/04414 ~ Complete ~54:MULTIPLE CIRCUITS COUPLED TO AN INTERFACE ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael;GARDNER, James;LINN, Scott~

2021/04426 ~ Complete ~54:DIE FOR A PRINTHEAD ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;FULLER, Anthony M.;GARDNER, James Michael;LINN, Scott A.~

2021/04390 ~ Complete ~54:CLAMPING DEVICE FOR USE IN FINE TURNING OF AUTOMOTIVE BRAKE DISC ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Zhuo;DUAN, Yongyong;WANG, Yu;XIAO, Zhihao;YU, Caofeng~

2021/04402 ~ Complete ~54:HETEROCYCLIC COMPOUND ~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-Chome Chuo-ku Osaki-shi, Osaka, 5410045, Japan ~72: HIDEKAZU TOKUHARA;HIROSHI BANNO;NORIYUKI NII;SHINICHI IMAMURA;TAKAHARU HIRAYAMA;TOSHIO TANAKA;YASUYOSHI ARIKAWA;YOSHITERU ITO;YOUICHI KAWAKITA~ 33:JP ~31:2018-222530 ~32:28/11/2018

2021/04411 ~ Complete ~54:PULLDOWN DEVICES ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James;LINN, Scott A.;ROSSI, John~

2021/04429 ~ Complete ~54:INTEGRATED CIRCUIT WITH ADDRESS DRIVERS FOR FLUIDIC DIE ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;GARDNER, James Michael;LINN, Scott A.~

2021/04385 ~ Complete ~54:SAFETY INTERLOCKING SYSTEM FOR WALKING ANCHORING EQUIPMENT AND CONTROL METHOD THEREFOR ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHENG, Gang;DENG, Haishun;GUO, Yongcun;HU, Kun;SU, Guoyong;WANG, Pengyu~

2021/04396 ~ Complete ~54:ROBOTIC ARM FOR SIMULATING CIGARETTE SMOKING PROCESS AND SMOKING ENVIRONMENT OF HUMAN BODY AND SIMULATION METHOD THEREOF ~71:CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD, No. 367, Hongjin Road, Wuhua District, People's Republic of China ~72: DING Haiyan;LI Geng;LI Liwei;WANG Hao;WANG Tao;WANG, Xu;XIE Jiao;YU Jiang;YU Tingting;YU Zhenhua;YUE Baoshan;ZHAN Jianbo;ZHANG Jing;ZHANG, Ying;ZHENG Han~ 33:CN ~31:202010313947.3 ~32:20/04/2020;33:CN ~31:202010329623.9 ~32:20/04/2020

2021/04408 ~ Complete ~54:PROCESS FOR PRODUCING PHARMACEUTICAL DOSAGE FORMS CONTAINING TASK-1 AND TASK-3 CHANNEL INHIBITORS, AND THE USE OF SAME IN BREATHING DISORDER THERAPY ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: ARNTZ, Andrea;BECK-BROICHSITTER, Moritz;NICOLAI, Janine;STEIN, Michelle~ 33:EP ~31:18208601.7 ~32:27/11/2018

2021/04417 ~ Complete ~54:INTEGRATED CIRCUITS INCLUDING CUSTOMIZATION BITS ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James Michael;LINN, Scott A.;NESS, Erik D.~

2021/04400 ~ Complete ~54:MINOCYCLINE FOR THE TREATMENT OF PITT-HOPKINS SYNDROME ~71:HEALX LIMITED, Charter House, 66-68 Hills Road, United Kingdom ~72: BROWN, David~ 33:GB ~31:1902580.8 ~32:26/02/2019

2021/04420 ~ Complete ~54:A COUPLING SYSTEM ~71:UNI-TROLL EUROPE APS, Østerbro 4 Tommerup St, 5690, TOMMERUP, DENMARK, Denmark ~72: MOGENSEN, Erling Kristen~ 33:DK ~31:PA201801081 ~32:28/12/2018

2021/04424 ~ Complete ~54:PRINT COMPONENT WITH MEMORY ARRAY USING INTERMITTENT CLOCK SIGNAL ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;GARDNER, James Michael;LINN, Scott A.~

2021/04384 ~ Complete ~54:ELECTRIC CONTROL PROTECTION TABLE SAW BASED ON CAPACITIVE TOUCH PRINCIPLE AND CONTROL METHOD THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: DING, Pingping;JIANG, Kuosheng~

2021/04392 ~ Complete ~54:METHOD FOR MODIFYING RECYCLED FINE POWDER OF CONCRETE AND USE THEREOF ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: LIU, Zhiqiang;SHEN, Wenfeng;WANG, Hao;WANG, Liang;WEI, Yubiao;XU, Ying;YANG, Fan~

2021/04398 ~ Complete ~54:SURGICAL INSTRUMENT ~71:GARCIA, Annalyn, Nachtegaalstraat 11, Belgium ~72: GARCIA, Annalyn~ 33:BE ~31:2018/5935 ~32:21/12/2018

2021/04407 ~ Complete ~54:POWER GENERATION SYSTEM ~71:NEODYMOTORS GMBH, Forststrasse 1, 80997, Munich, Germany ~72: PAULO EDUARDO DE SOUSA PEREIRA~

2021/04410 ~ Complete ~54:ACCESSING REGISTERS OF FLUID EJECTION DEVICES ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;GARDNER, James Michael;LINN, Scott A.~

2021/04416 ~ Complete ~54:COMMUNICATING PRINT COMPONENT ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;GARDNER, James Michael;LINN, Scott A.~

2021/04421 ~ Complete ~54:FLUID EJECTION DEVICES INCLUDING A FIRST MEMORY AND A SECOND MEMORY ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: NG, Boon Bing~

2021/04389 ~ Complete ~54:MULTI-POSITION SIX-WAY INTEGRATED ROTATING VALVE BASED ON DOUBLE-SIDE ROTATION ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Qiangman;HE, Tao;WANG, Chuanli;WANG, Shun;XIE, Tian;ZHAO, Kaiping~

2021/04419 ~ Complete ~54:PRINT COMPONENT WITH MEMORY CIRCUIT ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James Michael;NG, Boon Bing~ 33:IB ~31:2019/016725 ~32:06/02/2019;33:IB ~31:2019/016817 ~32:06/02/2019

2021/04401 ~ Complete ~54:TYROSINE INHIBITORS WITH IMMUNOSUPPRESSIVE ACTIVITY IN HUMAN NEONATAL KERATINOCYTE PROGENITORS ~71:ESCAPE THERAPEUTICS, INC., 3800 Geer Road, Suite 200, Turlock, California, 95382, United States of America ~72: HANTASH, Basil M.~ 33:US ~31:62/794,582 ~32:19/01/2019

2021/04412 ~ Complete ~54:COMMUNICATING PRINT COMPONENT ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James Michael;LINN, Scott A.~

2021/04386 ~ Complete ~54:SEMANTIC EXTRACTION METHOD FOR NATURAL LANGUAGE ~71:WEI ZHUANG, Room 1303, Unit 5, Lvyuan Yinxingyuan, Xihu District, Jiangsu Province, People's Republic of China ~72: WEI ZHUANG~

2021/04403 ~ Complete ~54:TABLET AND METHOD OF PREPARING SAME ~71:BORYUNG PHARMACEUTICAL CO., LTD., 136, Changgyeonggung-ro, Jongno-Gu, Seoul, 03127, Republic of Korea ~72: DONG CHUL SHIN;MYUNG SIC KIM;YONGYOUN HWANG;YUNSAM KIM~ 33:KR ~31:10-2018-0173649 ~32:31/12/2018

2021/04427 ~ Complete ~54:DIE FOR A PRINTHEAD ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;FULLER, Anthony M.;GARDNER, James Michael;LINN, Scott A.~

2021/04383 ~ Complete ~54:CARRIER TRANSIENT ELECTROMAGNETIC SYSTEM AND TEST METHOD THEREOF ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Renjun;HU, Xiongwu;KONG, Bingqing;XU, Biao~

2021/04422 ~ Complete ~54:ADVANCED GRAVITY-MOMENT-HYDRO POWER SYSTEM ~71:Nosmek Green Solutions, Inc., 2600 Westown Parkway, Suite 390, WEST DES MOINES 50266, IA, USA, United States of America ~72: EKANEM, Nsisuk Osmund~ 33:US ~31:62/786,115 ~32:28/12/2018

2021/04387 ~ Complete ~54:HYDRAULIC INTELLIGENT AUTOMATIC WINDOW ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: DENG, Haishun;WANG, Chuanli;WANG, Yongtao;XIE, Tian~

2021/04399 ~ Complete ~54:COMPOSITIONS OF HALOGENATED POLYETHERS ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, (sin número), Zona Industrial, Mexico ~72: SHARRATT, Andrew~ 33:GB ~31:1820989.0 ~32:21/12/2018;33:GB ~31:1910153.4 ~32:16/07/2019

2021/04425 ~ Complete ~54:DIE FOR A PRINthead ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;GARDNER, James Michael;LINN, Scott A.~

2021/04388 ~ Complete ~54:EXPERIMENTAL APPARATUS AND METHOD OF ROCK STRATUM MOVEMENT IN MINING NEIGHBORING CONFINED AQUIFERS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, ANHUI PROVINCE, People's Republic of China ~72: CHENG LIU;JIANSHUAI JI;KE YANG;PENG ZHOU;XINZHU HUA;ZHIHUA LI~

2021/04395 ~ Complete ~54:ADMINISTRATION DEVICE FOR ADMINISTRATION OF A FLUID ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: HOLMAN, Viola, K.;JENSEN, Hans Jørgen;ROTH, Axel~ 33:EP ~31:19170230.7 ~32:08/04/2019

2021/04406 ~ Complete ~54:PROTECTIVE TRAY WITH AN INTEGRATED DUST COVER FOR A SOFA ~71:ASHLEY FURNITURE INDUSTRIES, LLC, One Ashley Way, Arcadia, Wisconsin, 54612, United States of America ~72: JEREMY ROBINSON~ 33:US ~31:62/799,625 ~32:31/01/2019

2021/04415 ~ Complete ~54:INTEGRATED CIRCUITS INCLUDING MEMORY CELLS ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: CUMBIE, Michael W.;GARDNER, James Michael;LINN, Scott A.~

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

Application Number	Assignor	Assignee
2008/06782	GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED	THERAVANCE BIOPHARMA R&D IP, LLC
2018/05151	BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED	UTOPIAN BRANDS PROPRIETARY LIMITED
2018/05150	BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED	UTOPIAN BRANDS PROPRIETARY LIMITED
2018/06544	UNIVERSITY OF MASSACHUSETTS	VOYAGER THERAPEUTICS, INC.
2015/03526	MOOG UNNA GMBH	MOOG GMBH
2015/03526	MOOG GMBH	KEBA INDUSTRIAL AUTOMATION GERMANY GMBH
2007/01057	THERAVANCE RESPIRATORY COMPANY, LLC	THERAVANCE BIOPHARMA R&D IP, LLC
2013/09741	VAREL INTERNATIONAL IND., L.P.	SANDVIK MINING AND CONSTRUCTION TOOLS AB

Application Number	Assignor	Assignee
2014/05483	VAREL INTERNATIONAL IND., L.P.	SANDVIK MINING AND CONSTRUCTION TOOLS AB
2017/07697	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2017/05822	GRINAKE – LTA INTELLECTUAL PROPERTY (PROPRIETARY) LIMITED	CARLMAC STEEL (PTY) LTD
2008/06782	GLAXO GROUP LIMITED	GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED
2012/06629	CARL FREUDENBERG KG	GELITA AG
2021/00452	HARBIN INSTITUTE OF TECHNOLOGY, SHENZHEN	SHENZHEN ENVIRONMENTAL MONITORING CENTER STATION
2018/00310	MIGRAIN MASTER, LLC	MIRACLE HALO LIMITED
2003/06074	GW PHARMA LIMITED	GW RESEARCH LIMITED
2018/07298	IDEN BIOTECHNOLOGY, S.L.	TIMAC AGRO ESPANA, S.A
2011/02724	WOODPLASTIC GROUP SE	WOODPLASTIC HOLDING a.s.
2008/09074	SHIRE ORPHAN THERAPIES GMBH	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2008/05346	SHIRE PHARMACEUTICAL COMPANY LIMITED	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2005/01228	GW PHARMA LIMITED	GW RESEARCH LIMITED
2018/05152	BLOCKHOUSE SHUTTERS PROPRIETARY LIMITED	UTOPIAN BRANDS PROPRIETARY LIMITED
2006/10242	GW PHARMA LIMITED	GW RESEARCH LIMITED
2009/02052	WOODPLASTIC GROUP SE	WOODPLASTIC HOLDING a.s.
2017/01531	NASCIENT LIMITED	STERLING IP LIMITED
2020/06120	ARGENX BVBA, UNIVERSITEIT GENT and VIB VZW	ARGENX IIP BV, UNIVERSITEIT GENT and VIB VZW
2020/03312	ENZVANT THERAPEUTICS GMBH	ACERAGEN, INC.
2020/03261	ENZVANT THERAPEUTICS GMBH	ACERAGEN, INC.
2009/04232	RAIL-VEYOR SYSTEMS, INC.	RAIL-VEYOR TECHNOLOGIES GLOBAL INC.
2011/08181	EXELIXIS PATENT COMPANY LLC	EXELIXIS, INC.
2013/09066	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2004/06044	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2004/01897	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2004/03262	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2015/07996	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2015/00418	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2015/00314	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2013/02992	TWENTYFOURSEVEN HOLDING AB	MOVING MEDIA NORDIC AB
2005/06215	THERAVANCE RESPIRATORY COMPANY, LLC	THERAVANCE BIOPHARMA R&D IP, LLC
2009/07142	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2006/03094	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2006/06838	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2005/03719	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2011/07342	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2011/03192	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD

Application Number	Assignor	Assignee
2011/06767	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2011/07197	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2012/02316	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2012/02041	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2014/06394	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2013/01131	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2013/03453	PFIZER INC.	BIOGEN MA INC.
2013/05730	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2013/09523	AVENG (PTY) LTD	CARLMAC STEEL (PTY) LTD
2016/03903	DONESTA BIOSCIENCE B.V.	ESTETRA SPRL
2012/01052	MAR. PROJECT S.R.L.	LIMONTA SPORT S.P.A.
2012/03468	IP2IPO INNOVATIONS LIMITED	IMPERIAL COLLEGE INNOVATIONS LIMITED
2012/04307	PASTETHICK VENTURES, LLC	WESTECH ENGINEERING, INC.
2012/03240	PASTETHICK VENTURES, LLC	WESTECH ENGINEERING, INC.
2017/00485	HUAWEI TECHNOLOGIES CO., LTD.	HONOR DEVICE CO., LTD.
2006/09680	SHIRE VIROPHARM LLC	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2017/081472	EPC ENGINEERING & TECHNOLOGIES GMBH	CYPLUS GMBH
2009/03524	ORICA EXPLOSIVES TECHNOLOGY PTY LTD	MINERAL CARBONATION INTERNATIONAL PTY LTD
2016/00501	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LTD
2011/07378	GLAXO GROUP LIMITED	GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED
2011/07378	GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED	THERAVANCE BIOPHARMA R&D IP, LLC
2012/02259	ROBOR (PROPRIETARY) LIMITED	MACSTEEL SERVICE CENTRES SA (PTY) LTD
2013/03668	HUAWEI TECHNOLOGIES CO., LTD	HONOR DEVICE CO., LTD.
2018/02158	HUAWEI TECHNOLOGIES CO., LTD.	HONOR DEVICE CO., LTD.
2016/08400	HUAWEI TECHNOLOGIES CO., LTD.	HONOR DEVICE CO., LTD.
2017/05214	VAREL INTERNATIONAL IND., L.P.	SANDVIK MINING AND CONSTRUCTION TOOLS AB
2019/06455	NXT IP PTY LTD	NXT BUILDING SYSTEM PTY LTD
2006/01258	ADRIAAN JACOBUS BOSMAN (DECEASED)	MARIA ALBERTINA BOSMAN
2016/03567	AVENG AFRICA (PTY) LTD	CARLMAC STEEL (PTY) LD
2018/05951	CORVUS PHARMACEUTICALS, INC.	CORVUS BIOPHARMACEUTICALS, LTD.
2018/05951	CORVUS BIOPHARMACEUTICALS, LTD.	ANGEL PHARMACEUTICAL CO., LTD.
2013/08891	DALMAZZO, ENZO	3Z TELECOM, INC
2019/00938	AGRINOS AS	AMVAC CHEMICAL CORPOPARTION
2019/04557	FUTAMURA KAGAKU KABUSHIKI KAISHA	YOKOGAWA ELECTRIC CORPORATION
2020/07795	RAS, MARTHINUS	RAS CONSULT (PTY) LTD

Application Number	Assignor	Assignee
	CHRISTOFFEL DAVID	
2015/09135	GE HEALTHCARE UK LIMITED	GLOBAL LIFE SCIENCES SOLUTIONS OPERATIONS UK LTD
2019/05047	ROBERTSON, KEN PETER	GFNC BIOFUELS (PTY) LTD.
2019/05254	GROBLER, HERTZOG BEYERS DE LAREY KEMP AND VAN DER MERWE, RENIER	LICENSEDIRECT (PTY) LTD.
2020/03892	I-MAB BIOPHARMA HONG KONG LIMITED	I-MAB BIOPHARMA (HANGZHOU) CO., LTD.
2010/09224	XBIOTECH INC.	JANSSEN BIOTECH, INC.
2019/06396	SARA ELIZABETHCHURCH, JON CHARLES GUNTHER and KATHRYN POLLOCK	JUNO THERAPEUTICS, INC.,

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2017/07668	Z OPTICS LLC	Z OPTICS, INC.
2004/06024	SPEAR U.S.A. LLC	SPEAR USA INC.
2008/09074	JERINI AG	SHIRE ORPHAN THERAPIES GMBH
2003/03523	BLOUNT, INC.	OREGON TOOL, INC.
2018/03515	LYNDRA, INC.	LYNDRA THERAPEUTICS, INC.
2013/05401	LUCITE INTERNATIONAL UK LIMITED	MITSUBISHI CHEMICAL UK LIMITED
2015/04417	SIEMENS GAS AND POWER GMBH & CO. KG	SIEMENS ENERGY GLOBAL GMBH & CO. KG
2008/05055	JOMA INTERNATIONAL AS	TIOTECH AS
2014/03507	PURPLEGLAZE 3 CC T/A E-CAT	PURPLEGLAZE 3 (PTY) LTD T/A E-CAT
2012/03468	IMPERIAL INNOVATIONS LIMITED	IP2IPO INNOVATIONS LIMITED
2012/05417	ELECTRO POWER SYSTEMS SPA	ELECTRO POWER SYSTEMS MANUFACTURING S.R.L.
2012/06392	ELECTRO POWER SYSTEMS SPA	ELECTRO POWER SYSTEMS MANUFACTURING S.R.L.
2020/01531	GRITSTONE ONCOLOGY, INC	GRITSTONE BIO, INC.
2020/01285	GRITSTONE ONCOLOGY, INC	GRITSTONE BIO, INC.

PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63

Application Number	Licensor	Licensee
2016/07840	ENTASIS THERAPEUTICS LIMITED	GARDP FOUNDATION

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Dates
2017/07495	WITHDRAWN	05/02/2021
2018/08412	WITHDRAWN	11/05/2021
2020/03362	WITHDRAWN	26/05/2021
2019/02813	WITHDRAWN	06/11/2020
2019/07698	WITHDRAWN	18/11/2020
2020/04668	WITHDRAWN	25/05/2021
2019/02672	WITHDRAWN	06/11/2020
2019/07854	WITHDRAWN	02/11/2020
2019/08016	WITHDRAWN	03/12/2020
2019/07314	WITHDRAWN	12/11/2020
2019/04811	WITHDRAWN	23/10/2020
2019/07509	WITHDRAWN	18/05/2021

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 **CMTI CONSULTING (PTY) LTD OF DM KISCH INC, 266 SPRITE AVENUE, FAERIE GLEN, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **CMTI CONSULTING PTY LIMITED** an invention **VEHICLE BRAKE PERFORMANCE TESTING** numbered **2019/01023** dated **18/02/2019** which became void **12/08/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **3Z TELEKOM INC., OF ADAMS & ADAMS 4 DAVENTRY ROAD, LYNNWOOD MANOR. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **3Z TELEKOM INZ** an invention **AUTONOMOUS WIRELESS ANTENNA SENSOR SYSTEM** numbered **2013/08891** dated **26/11/2013** which became void **30/04/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **KONINKLIJKE PHILLIPS NV, OF ADAMS & ADAMS 4 DAVENTRY ROAD, LYNNWOOD MANOR. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **KONINKLIJKE PHILLIPS NV** an invention **BRIGHTNESS REGION-BASED APPARATUSES AND METHODS FOR HDR IMAGE ENCODING AND DECODING** numbered **204/07797** dated **25/03/2013** which became void **25/03/2016** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **RME UNDERGROUND PTY LTD, OF ADAMS & ADAMS 4 DAVENTRY ROAD, LYNNWOOD MANOR. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **RME UNDERGROUND PTY LTD** an invention **DRILL SLIDE FOR ROCK DRILLING APPARATUS** numbered **2007/011086** dated **19/12/2007** which became void **28/06/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **GILEAD SCIENCES INC, OF BREDEKAMP ATTORNEYS INC., PMA HOUSE, BLOCK B, TIUGERVALLEI OFFICE PARK, SILVERLAKES ROAD, SILVERLAKES. PRETORIA 0001** that made application for the Restoration of the Patent granted to said **GILEAD SCIENCES INC.**, an invention **COMPOSITIONS AND METHODS OF TREATING PULMONARY HYPERTENSION** numbered **2013/02746** dated **17/04/2013** which became void **17/04/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **SUNAP LIMITED OF VON SELDELS, CENTRAL OFFICE PARK, CENTURY CITY, CAPE TOWN, 7441** that made application for the Restoration of the Patent granted to said **SUNAP LIMITED** an invention **HEAT BATTERY ASSEMBLIES AND MONITORING SYSTEM THEREFOR** numbered **2015/08851** dated **03/12/2015** which became void **02/06/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **EDMUND SMITH OF MCCALLUM RADEMEYER AND FREIDMOND, 390 KENT AVENUE, FERNDALE. 2125** that made application for the Restoration of the Patent granted to said **EDMUND SMITH** an invention **BLASTING COMPONENT** numbered **2006/05412** dated **30/06/2006** which became void **30/06/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give note on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **BRILLA CONSULTANTS CC OF 41 WATERLOO ROAD WYNBERG, CAPE TOWN** that made application for the Restoration of the Patent granted to said **BRILLA CONSULTANTS CC** an invention **A GLUTARALDEHYDE SOLUTION** numbered **2006/10542** dated **14/12/2006** which became void **14/12/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give note on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **LANZA TECH NEW ZEALAND OF SPOOR & FISHER INC., 11 BYLS BRIDGE BOULEVARD, BUILDING NO.14, HIGHVELD EXTENSION 73, CENTURIONA. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **LANZA TECH NEW ZEALAND** an invention **MULTI-STAGE BIOREACTOR PROCESSES** numbered **2017/02862** dated **24/04.2017** which became void **22/10/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give note on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof

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

Applicant: CANBAS CO., LTD, 9 TORIYOKO-CHO, NUMAZU CITY, SHIZUOKA 410-0891, JAPAN.
Request permission to amend the specification of letters: **06/10/2009** patent application no: **2009/06960**
for **COMPOUNDS WITH ANTI-CANCER ACTIVITY.**

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 closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: SYNGENTA PARTICIPATIONS AG., SCHWARZWALDALLEE 215, BASEL 4058, SWITZERLAND.
Request permission to amend the specification of letters: **23/11/2019** patent application no: **2019/04819**
for **GERMINATION PROMOTERS.**

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 closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: UNIVERSITY OF PRETORIA., LYNNWOOD ROAD, HILLCREST, PRETORIA 0002, SOUTH AFRICA. Request permission to amend the specification of letters: **19/11/2018** patent application no: **2018/07775**
for **PRODUCTION OF METALS.**

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 closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: IMMUNOGEN, INC of 30 WINTER STREET, WALHAM, 02451, MASSACHUSETTS UNITED STATES OF AMERICA. Request permission to amend the specification of letters patent no: **2017/04808** of **14 JULY 2017** for **CYTOTOXIC BENZODIAZEPINE DERIVATIVES**

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 closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: FLSMIDTH A/S., VIGERSLEV ALLE 77, VALBY, 2500, DENMARK. Request permission to amend the specification of letters: **19/05/2008** patent application no:**2009/07373** for **VIBRATING SCREEN PANEL.**

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 closed at the Patent Office within 2 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**

(Payment to be affected by means of revenue stamps only.)

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. **(DA)** 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.

21: 2013/05221. 22: 11/07/2013. 43: 4/23/2021

51: A61K; C07D; A61P

71: IRON THERAPEUTICS HOLDINGS AG

72: STOCKHAM MICHAEL ARTHUR

33: GB 31: 1101370.3 32: 2011-01-27

54: PROCESS

00: -

The invention provides a method of forming an iron hydroxypyrrone compound comprising reacting a hydroxypyrrone with a non-carboxylate iron salt in an aqueous solution, and precipitating the iron hydroxypyrrone compound from the aqueous solution having a pH of greater than 7.

21: 2014/06967. 22: 9/23/2014. 43: 4/14/2021

51: C07K

71: AbbVie Stemcentrx LLC

72: SAUNDERS, Laura, DYLLA, Scott J., FOORD, Orit, STULL, Robert A., TORGOV, Michael, SHAO, Hui, LIU, David

33: US 31: 61/603,203 32: 2012-02-24

54: ANTI SEZ6 ANTIBODIES AND METHODS OF USE

00: -

Novel modulators, including antibodies and derivatives thereof, and methods of using such modulators to treat proliferative disorders are provided.

21: 2014/07121. 22: 01/10/2014. 43: 4/30/2021

51: A61K; A61P

71: AMICROBE, INC.

72: BEVILACQUA, Michael P., BENITEZ, Diego, HANSON, Jarrod A.

33: US 31: 61/615,150 32: 2012-03-23

33: US 31: 61/625,760 32: 2012-04-18

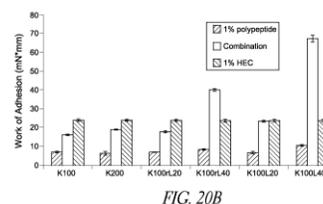
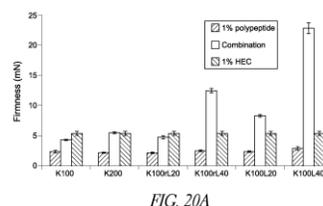
33: US 31: 61/625,757 32: 2012-04-18

33: US 31: 61/716,242 32: 2012-10-19

54: COMPOSITIONS AND USES OF ANTIMICROBIAL MATERIALS WITH TISSUE-COMPATIBLE PROPERTIES

00: -

Compositions comprising a mixture of an antimicrobial cationic polypeptide and a second pharmaceutically-acceptable polymer are disclosed, as well as methods and uses thereof for the treatment and prevention of infections that occur when our natural barriers of defense are broken.



21: 2015/01674. 22: 3/11/2015. 43: 4/9/2021

51: A61K

71: Vaccinex, Inc.

72: SMITH, Ernest S., ZAUDERER, Maurice

33: US 31: 61/646,119 32: 2012-05-11

54: USE OF SEMAPHORIN-4D BINDING MOLECULES TO PROMOTE NEUROGENESIS FOLLOWING STROKE

00: -

Provided herein are methods for promoting neurogenesis in neural tissue of a patient exhibiting at least one symptom of a central nervous system disorder, the method comprising administering to a subject in need thereof an effective amount of an isolated binding molecule which specifically binds to semaphorin-4D (SEMA4D).

21: 2015/03627. 22: 5/22/2015. 43: 4/14/2021

51: E04C

71: FELTON, Roy Roderick

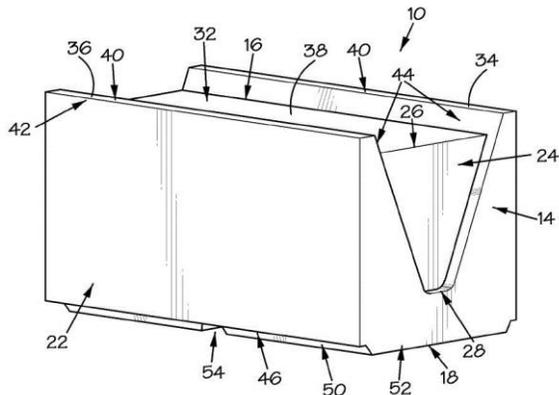
72: FELTON, Roy Roderick

54: A BUILDING BLOCK

00: -

A building block 10 having a pair of opposed end faces and a pair of opposed flat side faces. One of the end faces 14 defines a vertically-extending V-shaped groove 24. The top surface 16 defines a pair of spaced upwardly projecting side flanges 34 and 36 which define a horizontal groove 32 between them. The bottom surface 18 defines a complementary tongue formation 46 which is configured to mate with the groove 32 of an adjacent building block in a lower course. A space of at least 3mm in height is provided for mortar between a

lower end the tongue formation of an upper building block 10 and a base 38 of the groove 32 of an adjacent building block 10 in a lower course.



21: 2015/05468. 22: 29/07/2015. 43: 4/30/2021
 51: A61K; A61P
 71: PFIZER INC.
 72: HERBIG, Scott, Max, KRISHNASWAMI, Sriram,
 KUSHNER IV, Joseph, LAMBA, Manisha,
 STOCK, Thomas C.
 33: US 31: 61/802,479 32: 2013-03-16
 33: US 31: 61/864,059 32: 2013-08-09
 33: US 31: 61/934,428 32: 2014-01-31
**54: TOFACITINIB ORAL SUSTAINED RELEASE
 DOSAGE FORMS**

00: -
 The present invention relates to oral sustained release formulations of tofacitinib and pharmaceutical acceptable salts thereof. The formulations described herein have desirable pharmacokinetic characteristics.

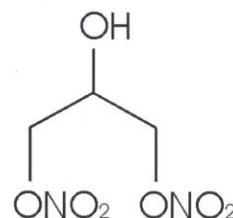
21: 2015/06465. 22: 03/09/2015. 43: 5/24/2021
 51: A61K; A61P
 71: Johannes Arnoldus Vosloo WEBB, Dr. Basil FRANK
 72: Johannes Arnoldus Vosloo WEBB, Dr. Basil FRANK
 33: ZA 31: 2013/02883 32: 2013-04-22
54: PHARMACEUTICAL PREPARATION

00: -
 The invention discloses a pharmaceutical preparation in effervescent form for oral administration, which includes an antibiotic compound; an alkaline compound; an acid compound; and a disinfectant; and which preparation, when dissolved in water, results in a

solution having a pH of less than 7. The antibiotic compound includes Amoxicillin trihydrate (C₁₆H₁₉N₃O₅S.3 H₂O), and/or sulphonamides and derivatives thereof combined with trimethoprim (cotrimoxazole), erythromycins and derivatives thereof, and/or any other suitable derivative of penicillin (e.g. cephalosporins), and/or a combination of penicillin and clavulanic acid or its salts (e.g. potassium clavulanate).

21: 2015/07831. 22: 10/21/2015. 43: 5/13/2021
 51: C06B
 71: AEL MINING SERVICES LIMITED
 72: PIENAAR, Andre; STOCKENHUBER, Michael; KENNEDY, Eric
 33: ZA 31: 2014/09050 32: 2014-12-10
54: PARTIAL NITRATION OF GLYCEROL

00: -
 The invention provides a method of producing a pure product of 1, 2, 3 propanetriol 1, 3 dinitrate by reacting glycerol with nitric acid, in a concentration below 86% (m/m), in the presence of a zeolite catalyst. The invention further provides a method of producing NG from glycerol via an explosively inert or relatively explosively inert precursor. The invention extends to a method of producing glycidol nitrate, as a polyGLYN precursor, from glycerol.



21: 2015/08055. 22: 10/29/2015. 43: 4/23/2021
 51: E21B
 71: HYDRO POWER EQUIPMENT (PTY) LTD
 72: BUHRMANN, Rudolph, CRONJE, Johan Marthinus
54: A DRILL RIG

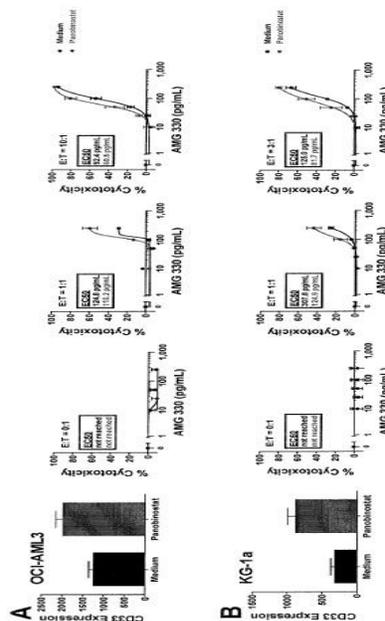
00: -
 The invention provides an underground drill rig having a suspension harness to engage a track, provided as a monorail secured to a hanging wall. The rig is adjustably suspended beneath the harness and includes extendable supports configured to engage opposite sidewalls of a tunnel.

The harness includes an elongate frame to engage the monorail at spaced apart positions. The rig is preferably supported on a cantilevered hingeable beam extending between a first pillar connected to the harness and a second pillar connected to the rig, with the first pillar axially pivotable relative to the harness and the rig axially pivotable relative to the second pillar. The rig is also tiltable along a substantially vertical axis beneath the second pillar and is movably securable independent of the cross-tunnel supports. The arrangement allows for adjustable drilling positions at various angles either across or along the tunnel.

21: 2016/00528. 22: 25/01/2016. 43: 5/24/2021
 51: A61K; A61P
 71: AMGEN INC., AMGEN RESEARCH (MUNICH) GMBH
 72: Roland B. WALTER, Marion SUBKLEWE, Christina KRUPKA
 33: US 31: 61/877,714 32: 2013-09-13
54: COMBINATION OF EPIGENETIC FACTORS AND BISPECIFIC COMPOUNDS TARGETING CD33 AND CD3 IN THE TREATMENT OF MYELOID LEUKEMIA

00: -
 The present invention provides a combination epigenetic factors and bispecific compounds targeting CD33 and CD3 in the treatment of myeloid leukemia, wherein the epigenetic factor is selected from the group consisting of histone deacetylase (HDAC) inhibitors, DNA methyltransferase (DNMT) I inhibitors, hydroxyurea, Granulocyte-Colony Stimulating Factor (G-CSF), histone demethylase inhibitors and ATRA (All Trans-retinoic acid). Accordingly, the invention provides a pharmaceutical composition comprising a CD33 targeting compound and at least one epigenetic factor and an epigenetic factor for use in the amelioration and/or treatment of a myeloid leukemia, wherein the epigenetic factor increases the responsiveness of a patient to a CD33 targeting compound. Moreover, the invention provides the use of at least one an epigenetic factor for increasing the responsiveness of a myeloid leukemia patient to a treatment with a CD33 targeting compound, a method for the treatment of a myeloid leukemia, the method comprising the administration of at least one epigenetic factor and a CD33 targeting compound to a patient in the need thereof and a kit comprising a pharmaceutical

composition of the invention or an epigenetic factor of the invention and a bispecific CD33 targeting compound



21: 2016/03792. 22: 6/3/2016. 43: 4/9/2021
 51: A61K; C07D
 71: 3M Innovative Properties Company
 72: BEAURLINE, Joseph, ELVECROG, James, VASILAKOS, John, CAPECCHI, John T., JOHNSON, Karen E.
 33: US 31: 61/900,255 32: 2013-11-05
54: SESAME OIL BASED INJECTION FORMULATIONS
 00: -
 Injectable formulations comprising ethanol, sesame oil, and an Immune Response Modifier compound are disclosed. Methods of making the formulations and methods of using the formulations for treatment of a disease in a subject, e.g., neoplastic disease, comprising injecting the formulations into a subject in need of treatment, are also provided.

21: 2016/06081. 22: 01/09/2016. 43: 5/24/2021
 51: A45D
 71: HD3 LIMITED
 72: DEBENEDICTIS, Alfredo, HARRIS, Martin Malcolm, HOLLAND, Janusz Lucien, HUGHES, Mark Christopher
54: HAIR STYLING DEVICE
 00: -

This invention relates to a hair styling device, and in particular a hair waving device. The device has a chamber for containing the length of hair, and a first forming member and a second forming member within the chamber, a first hair-receiving region between the first forming member and the second forming member. A first driving member can move relative to the first forming member between an inoperative position outside the first hair-receiving region and an operative position within the first hair-receiving region. The first driving member drives a portion of the length of hair into the first hair-receiving region to form a first wave in the length of hair. The device can comprise multiple forming members and multiple driving members to produce multiple waves.

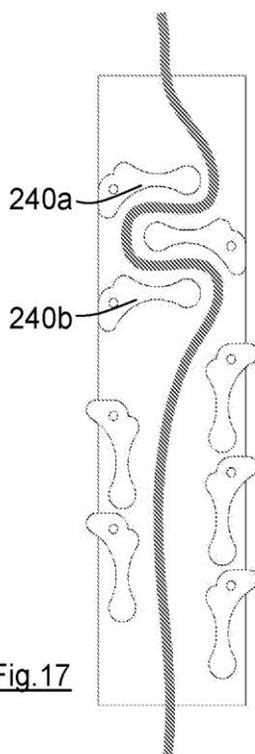
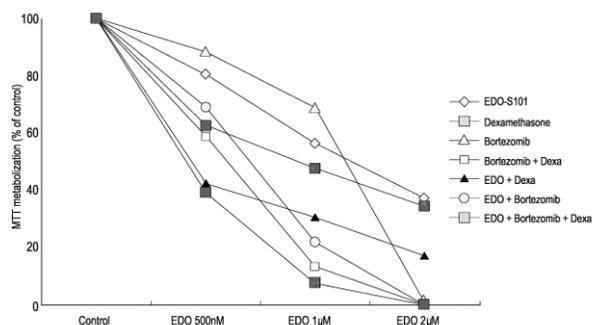
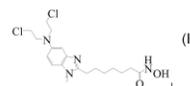


Fig. 17

The present invention is directed to a combination comprising a proteasome inhibitor and a compound of formula (I), or a pharmaceutically acceptable salt thereof: to a pharmaceutical composition and to a kit both comprising said combination, to the combination, composition or kit for use in the treatment of cancer, and to a method of treatment of cancer in a patient in need thereof comprising administering to said patient an effective amount of said combination, composition or kit.



21: 2016/07494. 22: 10/31/2016. 43: 4/14/2021
51: C04B

71: Corning Incorporated

72: BUBB, Keith Norman, CHAPMAN, Thomas Richard, DRURY, Kenneth Joseph, KERR, Christopher Lane, LEWIS, Mark Alan, LOCKER, Robert John, SARMA, Huthavahana Kuchibhotla, ST. CLAIR, Todd Parrish

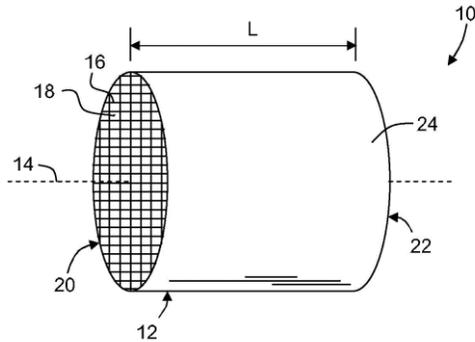
33: US 31: 61/987,071 32: 2014-05-01

54: HONEYCOMB STRUCTURE COMPRISING A CEMENT SKIN COMPOSITION WITH CRYSTALLINE INORGANIC FIBROUS MATERIAL

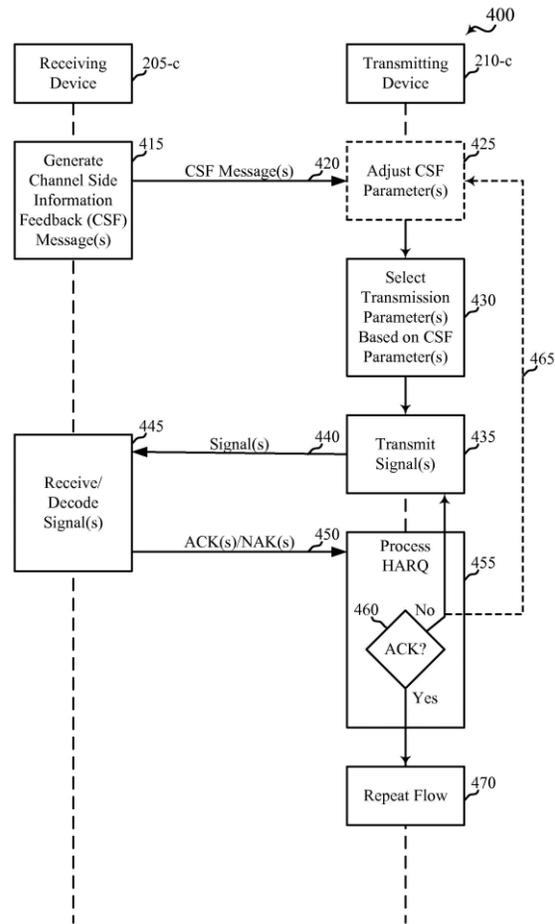
00: -

Disclosed is a honeycomb support structure comprising a honeycomb body and an outer layer or skin formed of a cement that includes an inorganic filler material having a first coefficient of thermal expansion from 25C to 600 C and a crystalline inorganic fibrous material having a second coefficient of thermal expansion from 25C to 600 C. Skin cement composition controls level of cement liquid/colloid components, for example water, colloidal silica, and methylcellulose migration into the substrate during the skin application process to form barrier to skin wetting and staining during the washcoating process.

21: 2016/07384. 22: 10/26/2016. 43: 4/14/2021
51: A61K; A61P
71: EURO-CELTIQUE S.A.
72: MEHRLING, Thomas Jorg, OCIO, Enrique Maria
33: GB 31: 1409471.8 32: 2014-05-28
54: PHARMACEUTICAL COMBINATIONS FOR TREATING CANCER
00: -



21: 2016/08865. 22: 12/22/2016. 43: 4/14/2021
 51: H04W
 71: QUALCOMM Incorporated
 72: JI, Tingfang, SMEE, John Edward, SORIAGA, Joseph, BHUSHAN, Naga, AZARIAN YAZDI, Kambiz, MUKKAVILLI, Krishna Kiran, GOROKHOV, Alexei Yurievitch, GAAL, Peter
 33: US 31: 62/027,623 32: 2014-07-22
54: ULTRA RELIABLE LINK DESIGN
 00: -
 Techniques are described for wireless communication. A first method includes measuring, by a first device, a condition of a wireless channel; and generating at least one channel side information feedback message based on the measured condition of the wireless channel. The at least one channel side information feedback message provides information on a relationship of a set of parameters, including a data rate parameter, an error probability parameter, and at least one of a deadline parameter or a transmission link parameter. A second method includes measuring, by a first device, interference on a wireless channel; identifying an interfering device for the wireless channel based on the measurement; and generating a channel side information feedback message based on the measured interference on the wireless channel. The channel side information feedback message indicates the interfering device for the wireless channel and a correlation of interference from the interfering device with time or frequency.



21: 2017/00422. 22: 18/01/2017. 43: 5/10/2021
 51: C12P; D21C
 71: LEAF SCIENCES PTY LTD
 72: BAKER, Alex, EDYE, Leslie Alan
 33: AU 31: 2014902667 32: 2014-07-10
 33: AU 31: 2014904984 32: 2014-12-09
54: METHODS FOR HYDROLYSING LIGNOCELLULOSIC MATERIAL
 00: -

A method for producing a partially hydrolysed lignocellulosic material is provided including treating a lignocellulosic material with an acid and/or an alkali and then a polyol. Also provided are methods of producing a fermentable sugar or a fermentation product from said partially hydrolysed lignocellulosic material. A partially hydrolysed lignocellulosic material, a fermentable sugar and a fermentation product produced by such methods are also provided. Also provided is an apparatus for producing a partially hydrolysed lignocellulosic material, such as by the aforementioned method.

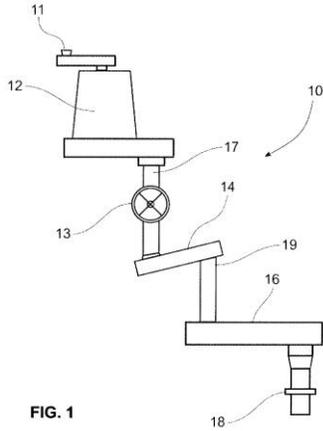
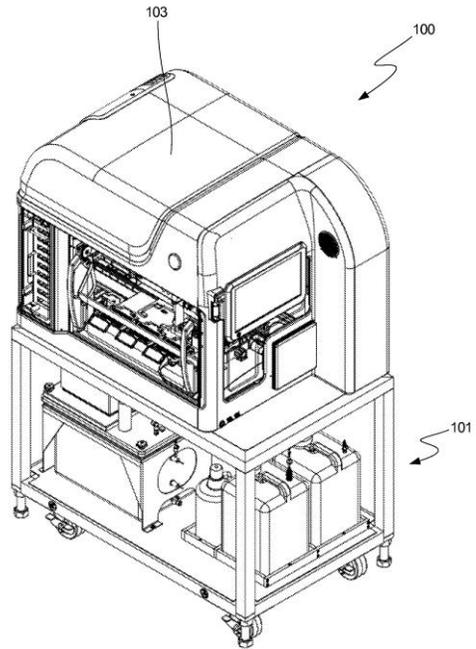


FIG. 1

21: 2017/00540. 22: 23/01/2017. 43: 5/10/2021
 51: G01N
 71: DOUGLAS SCIENTIFIC, LLC
 72: COOK, Darren, Lynn, JOHNSON, Eric, Guy, WESTAD, Nathan, Luther, HAUG, Andrew, Richard, KONYNENBELT, James, Henry, MAASJO, Grant, Edward, PATTERSON, Jared, Whittier, URKE, Brent, Conrad, ZITZMANN, Ryan, John, SMITH, Chad, Steven
 33: US 31: 62/029,953 32: 2014-07-28
 33: US 31: 62/029,954 32: 2014-07-28
 33: US 31: 62/029,959 32: 2014-07-28
 33: US 31: 62/029,961 32: 2014-07-28
 33: US 31: 62/029,965 32: 2014-07-28
 33: US 31: 62/029,968 32: 2014-07-28

54: INSTRUMENT FOR ANALYZING BIOLOGICAL SAMPLES AND REAGENTS

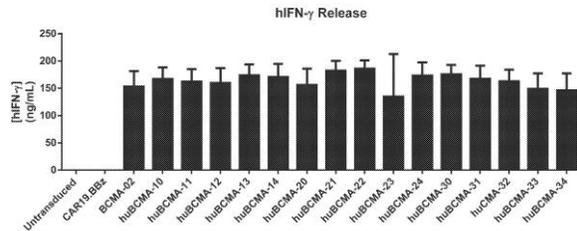
00: -
 An instrument for processing a biological sample includes a chassis. Connected to the chassis is a tape path along which a tape with a matrix of wells can be automatically advanced through the instrument, a dispensing assembly for dispensing the biological sample and a reagent into the matrix of wells of the tape to form a biological sample and reagent mixture, a sealing assembly for sealing the biological sample and reagent mixture in the tape, and an amplification and detection assembly for detecting a signal from the biological sample and reagent mixture in the matrix of wells in the tape.



21: 2017/00730. 22: 1/30/2017. 43: 4/23/2021
 51: C07K; C12N
 71: Bluebird Bio, Inc.
 72: MORGAN, Richard, FRIEDMAN, Kevin
 33: US 31: 62/028,664 32: 2014-07-24

54: BCMA CHIMERIC ANTIGEN RECEPTORS

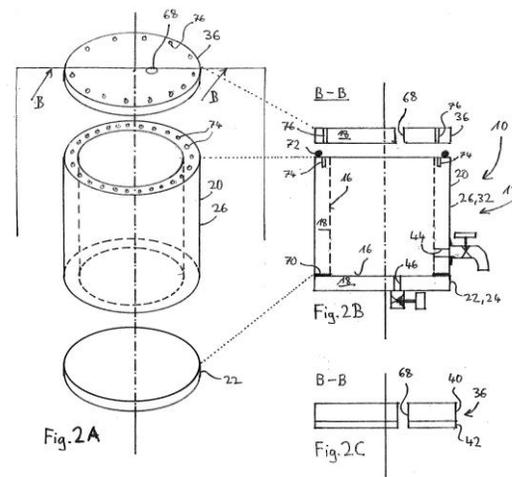
00: -
 The invention provides improved compositions for adoptive T cell therapies for B cell related conditions.



21: 2017/00865. 22: 2/3/2017. 43: 5/24/2021
 51: B65D; C12G; C12H
 71: BAUER, Alois
 72: BAUER, Alois
54: METHOD FOR THE MANUFACTURE AND/OR STORAGE OF A LIQUID PROVIDED FOR DRINKING CONSUMPTION, LIQUID CONTAINER PROVIDED FOR PERFORMING THE METHOD, AND USE OF THE LIQUID CONTAINER IN THE METHOD
 00: -

A method for the production and/or storage of a liquid provided for drinking consumption or of a pre-product for such a liquid, comprised the following steps: (i) providing a liquid container (10), which is for producing and/or storing of liquids to be provided for drinking consumption, which comprises a container (12) that is open on one side and a container wall (14) having an inner wall surface (16), wherein the inner wall surface (16) is formed at least partially as a surface of a solid natural stone (18); (ii) cooling down at least a partial section of the liquid container (10) with respect to the temperature of the surrounding air atmosphere; (iii) filling in of a liquid into the liquid container (10) that has been cooled down according to step (ii); and (iv) initiating a step of a chemical and/or biochemical conversion of the liquid that has been filled in, such as a fermentation or a conversion of sugar to alcohol, for generating the liquid or a pre-product, wherein during the conversion no further measure (or process) for cooling the liquid container (10) and/or the liquid residing in the liquid container (10) is taken (or performed).

A method for the production and/or storage of a liquid provided for drinking consumption or of a pre-product for such a liquid, comprised the following steps: (i) providing a liquid container (10), which is for producing and/or storing of liquids to be provided for drinking consumption, which comprises a container (12) that is open on one side and a container wall (14) having an inner wall surface (16), wherein the inner wall surface (16) is formed at least partially as a surface of a solid natural stone (18); (ii) cooling down at least a partial section of the liquid container (10) with respect to the temperature of the surrounding air atmosphere; (iii) filling in of a liquid into the liquid container (10) that has been cooled down according to step (ii); and (iv) initiating a step of a chemical and/or biochemical conversion of the liquid that has been filled in, such as a fermentation or a conversion of sugar to alcohol, for generating the liquid or a pre-product, wherein during the conversion no further measure (or process) for cooling the liquid container (10) and/or the liquid residing in the liquid container (10) is taken (or performed).



21: 2017/01792. 22: 13/03/2017. 43: 4/6/2021
 51: C22B; C22C
 71: COMPANHIA BRASILEIRA DE METALURGIA E MINERAÇÃO
 72: SERNIK, KLEBER A, VIEIRA, ALAÉRCIO SALVADOR MARTINS, RIOS, ADRIANO PORFIRIO, FRIDMAN, DANIEL PALLOS
 33: US 31: 14/533,741 32: 2014-11-05
54: PROCESSES FOR PRODUCING LOW NITROGEN METALLIC CHROMIUM AND CHROMIUM-CONTAINING ALLOYS AND THE RESULTING PRODUCTS

00: -
 Processes for producing low-nitrogen metallic chromium or chromium-containing alloys, which prevent the nitrogen in the surrounding atmosphere from being carried into the melt and being absorbed by the metallic chromium or chromium-containing alloy during the metallothermic reaction, include vacuum-degassing a thermite mixture comprising metal compounds and metallic reducing powders contained within a vacuum vessel, igniting the thermite mixture to effect reduction of the metal compounds within the vessel under reduced pressure i.e., below 1 bar, and conducting the entire reduction reaction in said vessel under reduced pressure, including solidification and cooling, to produce a final product with a nitrogen content below 10 ppm. The final products obtained, in addition to low-nitrogen metallic chromium in combination with other elements, can be used as raw materials in the manufacture of superalloys, stainless steel and other specialty steels whose final content of nitrogen is below 10 ppm.

21: 2017/01901. 22: 3/17/2017. 43: 4/6/2021
51: B01J B01D

71: BASF CORPORATION

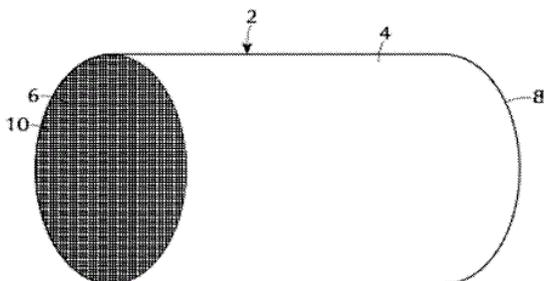
72: XUE, Wen-Mei, WEI, Xinyi, HILGENDORFF, Marcus, BURK, Patrick

33: US 31: 14/467,250 32: 2014-08-25

54: CATALYST WITH IMPROVED HYDROTHERMAL STABILITY

00: -

A catalyst for the treatment of exhaust gas emissions is disclosed. The catalyst can comprise ceria-alumina particles having a ceria phase present in a weight percent of the composite in the range of about 20% to about 80% on an oxide basis, an alkaline earth metal component supported on the ceria-alumina particles, wherein the CeO₂ is present in the form of crystallites that are hydrothermally stable and have an average crystallite size less than 160 Å after aging at 950 °C for 5 hours in 2% O₂ and 10% steam in N₂.



21: 2017/01949. 22: 20/03/2017. 43: 4/6/2021

51: C07D; C07C

71: OGEDA SA

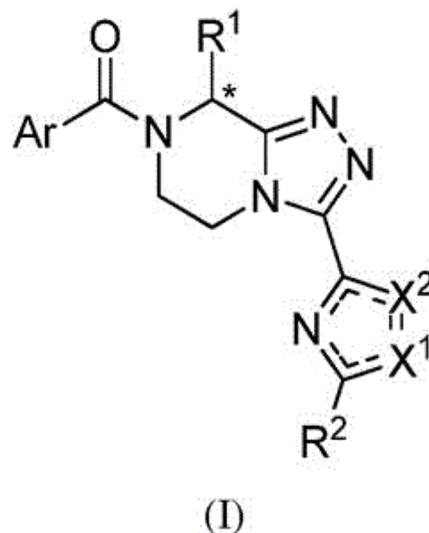
72: HOVEYDA, HAMID, DUTHEUIL, GUILLAUME

33: EP 31: 14186447.0 32: 2014-09-25

54: NOVEL CHIRAL SYNTHESIS OF N-ACYL-(3-SUBSTITUTED)-(8-SUBSTITUTED)-5,6-DIHYDRO-[1,2,4]TRIAZOLO[4,3-A]PYRAZINES

00: -

The present invention relates to a novel chiral synthesis of N-acyl-(3-substituted)-(8-substituted)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazines of Formula (I), avoiding the use of protection/deprotection steps.



21: 2017/02152. 22: 27/03/2017. 43: 4/23/2021

51: A61K

71: ANMI S.A.

72: WOUTERS, Ludovic, KAISIN, Geoffroy, LUXEN, Andre, LEONARD, Marc, VOCCIA, Samuel

33: BE 31: 2014/0653 32: 2014-08-29

54: KIT FOR RADIOLABELLING WITH 68GA COMPRISING A METAL INHIBITOR

00: -

The present invention relates to a kit for radiolabelling a targeting agent with gallium-68. The present invention also relates to the use of said kit for radiolabelling a targeting agent, a method for radiolabelling a targeting agent with gallium-68 using said kit, said kit and a method of preparation.

21: 2017/02191. 22: 29/03/2017. 43: 4/6/2021

51: C07K; C12N

71: MONSANTO TECHNOLOGY LLC

72: BAUM, James, A., CERRUTI, Thomas, A., DART, Crystal, L., ENGLISH, Leigh, H., FU, Xiaoran, GUZOV, Victor, M., HOWE, Arlene, R., MORGENSTERN, Jay, P., ROBERTS, James, K., SALVADOR, Sara, A., WANG, Jinling, FLASINSKI, Stanislaw

33: US 31: 62/064,989 32: 2014-10-16

54: NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS

00: -

Nucleotide sequences are disclosed that encode novel chimeric insecticidal proteins exhibiting

Lepidopteran inhibitory activity. Particular embodiments provide compositions and transformed plants, plant parts, and seeds containing the recombinant nucleic acid molecules encoding one or more of the chimeric insecticidal proteins.

21: 2017/02585. 22: 11/04/2017. 43: 3/12/2021
51: A61K

71: SOLVOTRIN THERAPEUTICS LIMITED
72: GILMER, JOHN, RADICS, GABOR,
WHELEHAN, MICHAEL, WANG, JUN, O'FLYNN,
PAT, LEDWIDGE, MARK

33: US 31: 62/146,897 32: 2015-04-13
33: GB 31: 1416293.7 32: 2014-09-15

54: COMPOSITIONS AND METHODS FOR INCREASING IRON INTAKE IN A MAMMAL

00: -

Compositions containing iron and denatured protein have been prepared that are capable of increasing serum iron and other divalent metal cations in a subject. For example, edible microbeads have been prepared containing iron entrapped within a protein matrix that provides a gastroprotective effect and improves iron bioavailability relative to previously known vehicles for delivering iron to a subject.

21: 2017/03290. 22: 12/05/2017. 43: 3/29/2021
51: A61K; C07K; G01N

71: REGENERON PHARMACEUTICALS, INC.
72: SMITH, Eric, DAVIS, Samuel, VARGHESE,
Bindu, KIRSHNER, Jessica, R., THURSTON, Gavin,
LOWY, Israel, BROWNSTEIN, Carrie

33: US 31: 62/080,716 32: 2014-11-17
33: US 31: 62/160,788 32: 2015-05-13

54: METHODS FOR TUMOR TREATMENT USING CD3XCD20 BISPECIFIC ANTIBODY

00: -

The present invention relates to a method (dosage regimen) for administering a CD3 x CD20 bispecific antibody to a human patient, comprising (a) administering a first dose of said antibody in a specific dosage; and consecutively (b) administering a second dose of said antibody after a period of time, wherein said second dose exceeds said first dose. The methods of the invention (and likewise the dosage regimen of the invention) are also suitable for treating B cell (CD20-positive) cancer in a human patient, or for ameliorating and/or preventing a medical condition mediated by the periodic or continued administration of a CD3 x CD20 bispecific

antibody to a human patient. The present invention also relates to the use of a CD3 x CD20 bispecific antibody for the preparation of a pharmaceutical composition to be used in a method or treatment regime as defined in any one of the preceding claims. A pharmaceutical package or kit comprising the first dose, the second dose, and any subsequent doses are also part of the present invention.

21: 2017/03336. 22: 5/15/2017. 43: 4/23/2021
51: A46B; A61C; A61K; A61L; A61N; A61Q

71: Colgate-Palmolive Company
72: JOHANSSON, Patrik, XU, Guofeng
33: US 31: 62/096,578 32: 2014-12-24

54: NOVEL PRODUCTS AND METHODS

00: -

Provided is an oral care product comprising an effective amount of a soluble orally acceptable sulfate, e.g., sodium or potassium bisulfate, in a buffered, electrically conductive medium, which product is useful in a method for in situ production of persulfate (S₂O₈²⁻), and methods of making and using the same, for example for whitening the teeth.

21: 2017/03662. 22: 5/29/2017. 43: 3/17/2021
51: F41B

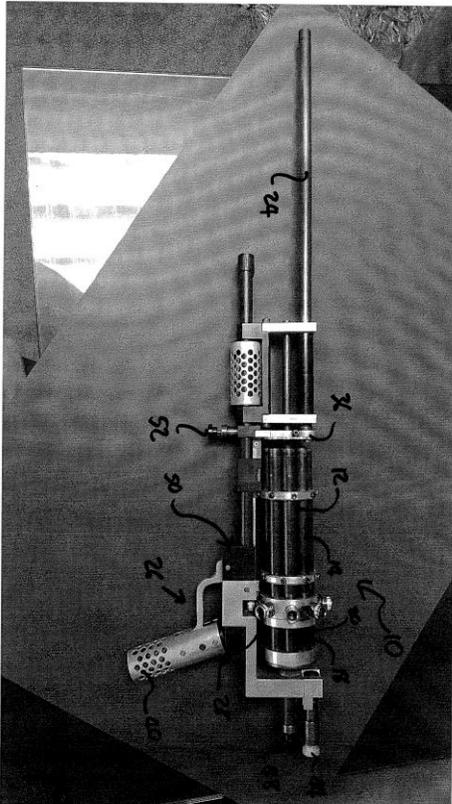
71: CANDRL, MARK
72: CANDRL, MARK
33: ZA 31: 2016/03201 32: 2016-05-12

54: A TRANQUILIZER GUN

00: -

A tranquilizer gun including a rotary magazine, said magazine having a plurality of casings shaped and dimensioned for receiving a dart; a rotary firing chamber defining a plurality of channels, each channel shaped and dimensioned to receive a blank cartridge for generating propellant gasses for propelling the dart from the barrel when the tranquilizer gun is discharged; and actuation means for actuating the rotation of the magazine and firing chamber relative the barrel of the tranquilizer gun; and wherein the rotary magazine and firing chamber are configured to sequentially align and rotate during

use thereby facilitating the sequential firing of a plurality of darts from the tranquilizer gun.



21: 2017/04634. 22: 10/07/2017. 43: 5/24/2021
 51: A61K; A61P
 71: BELINA PHARMA AB
 72: OLSSON, Håkan, EINEFORS, Rickard
 33: SE 31: 1550036-6 32: 2015-01-19

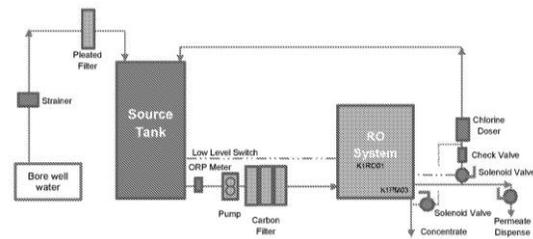
54: ANTIHISTAMINE FOR USE IN TREATMENT OF BREAST CANCER

00: -
 Disclosed herein is desloratadine or ebastin for use in treatment of a patient diagnosed with breast cancer. Also disclosed is desloratadine or ebastin for use in treatment of a patient diagnosed with a cancer type susceptible to immunotherapy.

21: 2017/04867. 22: 7/18/2017. 43: 4/9/2021
 51: B01D; C02F
 71: The Coca-Cola Company
 72: MEHTA, Anish, RAHMAN, Mamunur
 33: US 31: 62/094,319 32: 2014-12-19

54: ON-DEMAND SYSTEM FOR DRAWING AND PURIFYING WELL WATER

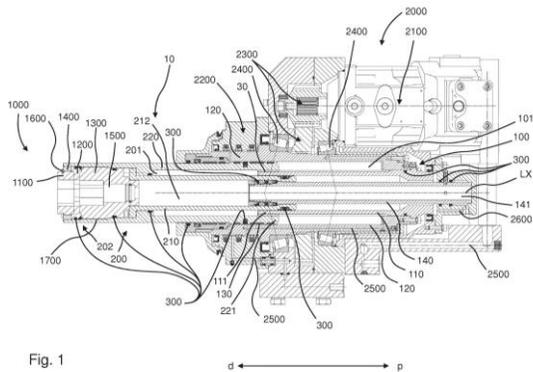
00: -
 This disclosure provides systems and methods for generating potable water from contaminated water sources, particularly well water. By eliminating the purified water holding tank, employing a combination of source tank with carbon and reverse osmosis filters in series, and using an actuated pump to supply impure water from the source, a simple on-demand system is provided that is especially adapted for use in remote locations. The system and method are particularly useful where only direct current power, such as from a solar photovoltaic panel power, is available.



21: 2017/05596. 22: 8/17/2017. 43: 4/23/2021
 51: E21B; E21D; F16B
 71: Sandvik Intellectual Property AB
 72: GALLER, Thomas, FELBER, Robert, HABERER, Christoph

54: MULTI-FUNCTIONAL CONNECTOR, DRILL HEAD, AND METHOD

00: -
 The invention relates to a multi-functional connector for connecting a functional drill element to a drill head (2000), in particular to an extendable cylinder (10) of a drill head. The multi-functional connector (10000) comprises a first connecting element (1 100) with a first receptacle (1 1 10), a second connecting element (1300) with a second receptacle (1310), a retainer element (1200) with a retainer opening (1210). The first receptacle (1 1 10) has at least two driving surfaces (1 1 1 1) for transferring a torque in a first direction, the second receptacle (1310) has at least two driving surfaces (131 1, 1312) for transferring a torque in a first direction and in a second, opposite direction, and the retainer element (1200) has at least one retaining section to prevent a movement of a second functional drill element relative to the second connecting element in a retracting position of the second functional drill element.



21: 2017/06440. 22: 9/22/2017. 43: 4/23/2021
 51: A61K
 71: UCL Business PLC
 72: RIZZI, Matteo, ALI, Robin, SMITH, Alexander,
 NISHIGUCHI, Koji
 33: GB 31: 1503008.3 32: 2015-02-23
54: GENE THERAPY TO IMPROVE VISION

00: -
 The invention relates to the use of gene therapy vectors to improve vision by introducing into healthy rod photoreceptor cells of a patient suffering from cone photoreceptor dysfunction and/or degeneration a nucleic acid encoding a gene product that is light-sensitive and/or that modulates endogenous light-sensitive signalling in a photoreceptor cell, such that the range of light intensities to which the rod photoreceptor responds is extended and/or the speed at which the rod photoreceptor responds to light is increased.

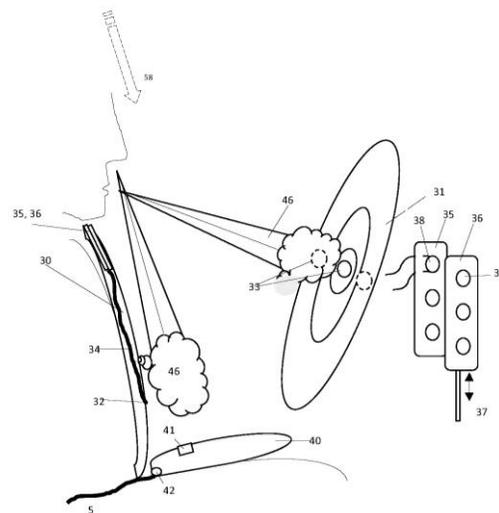
21: 2017/06702. 22: 05/10/2017. 43: 5/10/2021
 51: C08L
 71: BOREALIS AG
 72: Luca BORAGNO, Wolfgang STOCKREITER,
 Michael JERABEK
 33: EP 31: 15168962.7 32: 2015-05-22
54: LOW DENSITY CARBON FIBERS FILLED MATERIALS

00: -
 The present invention refers to a fiber reinforced polymer composition comprising a polypropylene, carbon fibers and a polar modified polypropylene as coupling agent as well as to an article comprising the fiber reinforced polymer composition.

21: 2017/06802. 22: 09/10/2017. 43: 5/24/2021
 51: B60H

71: OBSCHESTVO S OGRANICHENNOI OTVETSTVENNOSTIYU "AUTEX LTD"
 72: KIRPICHNIKOV, Alexei Petrovich,
 KOVALCHUK, Roman Sergeevich
 33: RU 31: 2015113723 32: 2015-04-14
 33: RU 31: 2015143706 32: 2015-10-13
54: VEHICLE VENTILATION SYSTEM (VARIANTS)

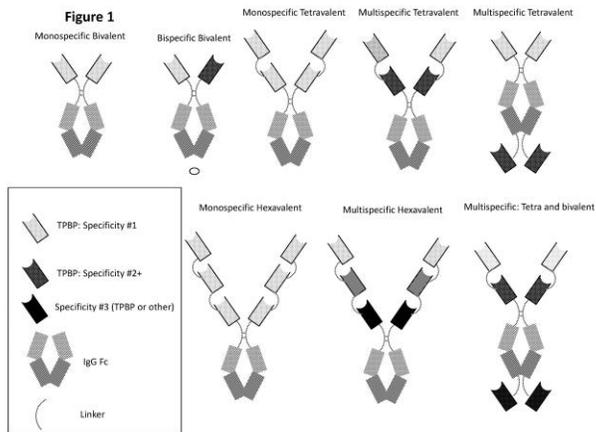
00: -
 The ventilation system comprises a sensing element (41) for recognizing the fact of exhalation of one or several passengers and the means (32,33) to exhaust (extract) the air from the interior of the vehicle, wherein the means of air exhaust are configured to remove mainly a portion of air exhaled by passengers. The air outlets (32,33) of the ventilation system are located in a zone of spreading of the exhaled air stream (46) and the direction of the streams from the air supply means contributes to exhaust of exhaled air. Additionally, such system can be equipped with sensors of respiration that allows to extract the air masses with maximum concentration of the exhalation products.



21: 2017/07404. 22: 10/31/2017. 43: 4/14/2021
 51: A61K; C07K
 71: Inhibrx, Inc.
 72: HOLLANDS, Andrew, TIMMER, John C.,
 DEVERAUX, Quinn, ECKELMAN, Brendan P.
 33: US 31: 62/155,967 32: 2015-05-01
54: TYPE III SECRETION SYSTEM TARGETING MOLECULES

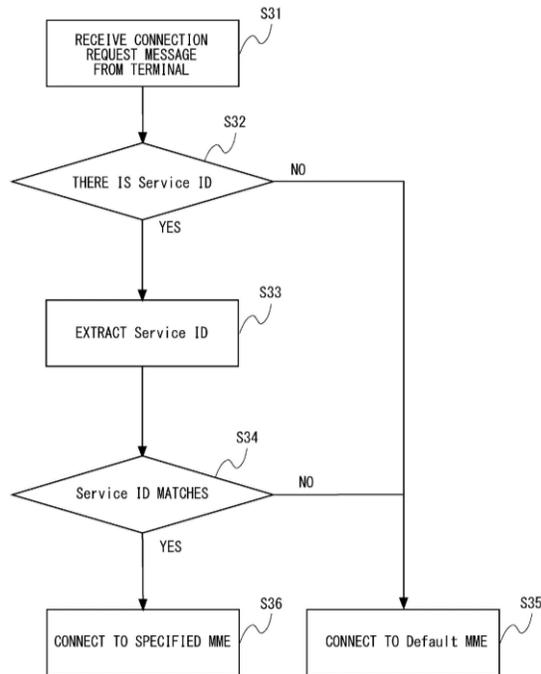
00: -
 This invention relates generally to molecules that specifically bind bacterial V-tip proteins of the type III

secretion system of Gram negative bacteria such as PcrV from *Pseudomonas aeruginosa*. More specifically, this invention relates to molecules that block the injection of effector molecules into target cells. This invention also relates to molecules that specifically bind to bacterial lipoproteins, such as OprI. The molecules of the present invention are monospecific or multispecific and can bind their target antigen in a monovalent or multivalent manner. The invention also relates generally to molecules that specifically bind bacterial cell surface proteins such as OprI, and to methods of use these molecules in a variety of therapeutic, diagnostic, and/or prophylactic indications.



21: 2017/07519. 22: 11/7/2017. 43: 4/23/2021
 51: H04W
 71: NEC Corporation
 72: ONISHI, Koji, TAMURA, Toshiyuki
 33: JP 31: 2013-202034 32: 2013-09-27
54: COMMUNICATION SYSTEM, COMMUNICATION METHOD, TERMINAL AND NETWORK NODE
 00: -
 An object is to provide a communication system, a base station, a communication method, and a program capable of eliminating an effect caused by a sharp increase in the amount of traffic by a specific group of communication terminals on the quality of the other communication terminals. A communication system according to the present invention includes a communication terminal (40), and a node device (13) that selects a gateway device (11) that performs data communication with the communication terminal (40). Further, the communication system includes a base station (30)

that selects the node device (13) based on an identifier included in a connection request message transmitted from the communication terminal (40).



21: 2017/07806. 22: 17/11/2017. 43: 4/30/2021
 51: A01N; C07D; C07K
 71: MERIAL, INC.
 72: DE FALLOIS, Loic, Le Hir, PACOFSKY, Gregory, LONG, Alan, MENG, Charles, LEE, Hyoung, Ik, OGBU, Cyprian, O.
 33: US 31: 62/163,997 32: 2015-05-20
54: ANTHELMINTIC DEPSIPEPTIDE COMPOUNDS
 00: -

The present invention provides cyclic depsipeptide compounds of formula (I) and compositions comprising the compounds that are effective against parasites that harm animals. The compounds and compositions may be used for combating parasites in or on mammals and birds. The invention also provides for an improved method for eradicating, controlling and preventing parasite infestation in birds and mammals.

21: 2017/07892. 22: 21/11/2017. 43: 5/13/2021
 51: A61B
 71: INTERSURGICAL AG

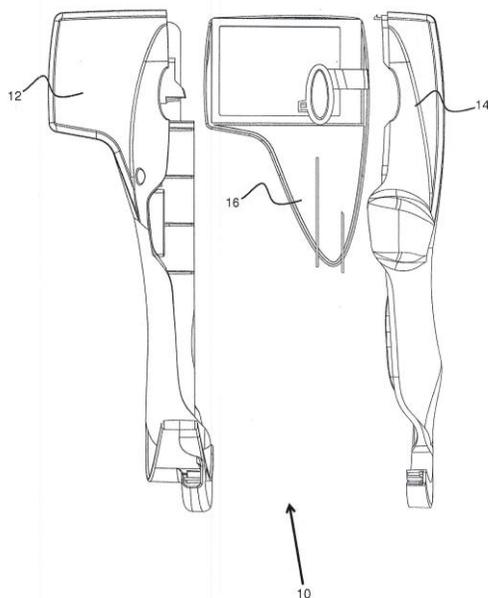
72: DIXON, Phillip William, BROWNE, Mark Richard, MILLER, Andrew Neil

33: GB 31: 1508739.8 32: 2015-05-21

54: VIDEO LARYNGOSCOPES

00: -

A laryngoscope (10) having a body (20, 42) including a handle, a laryngoscope blade (22) extending from a distal end of the body (20, 42), and a display screen housing (18) extending from a proximal end of the body (20, 42). The laryngoscope (10) has at least one unitary housing component (12) that defines at least a portion of each of the body (20, 42), the laryngoscope blade (22) and the display screen housing (18).



21: 2017/07903. 22: 11/21/2017. 43: 4/23/2021

51: A61K; C07K; C12N

71: AbbVie Inc.

72: BENATUIL, Lorenzo, MCRAE, Bradford L., HSIEH, Chung-Ming, WANG, Rui, KINGSBURY, Gillian A.

33: US 31: 62/168,425 32: 2015-05-29

54: ANTI-CD40 ANTIBODIES AND USES THEREOF

00: -

The present invention encompasses antagonist anti-CD40 antibodies and antigen-binding portions thereof. Specifically, the invention relates to humanized anti-CD40 antibodies. In certain embodiments, antibodies of the invention neutralize human CD40 (hCD40) activity. Antibodies, or antibody portions, of the invention are useful for detecting CD40 and for inhibiting CD40 activity, e.g., in a human subject suffering from a disorder in which CD40 activity is detrimental.

21: 2017/07978. 22: 23/11/2017. 43: 5/31/2021

51: G06F; G07F

71: LICENTIA GROUP LIMITED, MYPINPAD LIMITED

72: PIKE, Justin

33: GB 31: 1509031.9 32: 2015-05-27

33: GB 31: 1509030.1 32: 2015-05-27

33: GB 31: 1520760.8 32: 2015-11-24

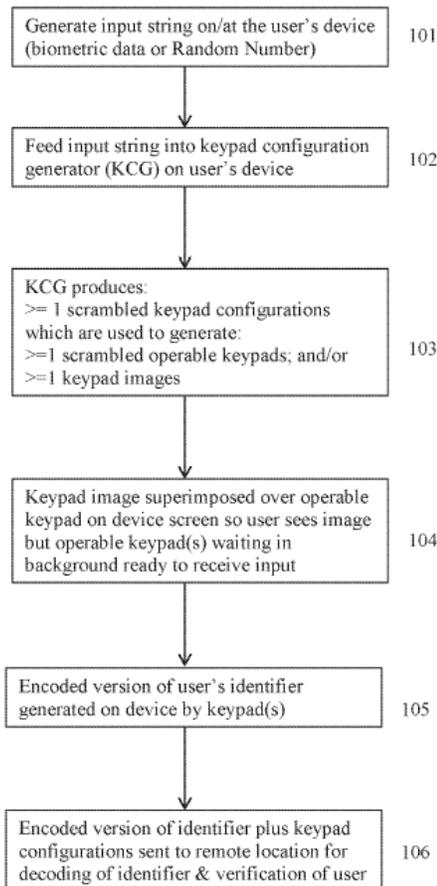
33: GB 31: 1520741.8 32: 2015-11-24

54: AUTHENTICATION METHODS AND SYSTEMS

00: -

The invention provides a solution for secure authentication of an individual. The invention comprises methods and apparatus for secure input of a user's identifier e.g. PIN. An image of a keypad is superimposed over a scrambled, operable keypad within a display zone of a screen associated with an electronic device. The keypad image depicts a non-scrambled keypad, in that the keys depicted in the image are in an expected or standardised format or order. The difference in positions of the keys depicted in the image, and those in the operable keypad, provides a mapping which enables an encoded form of the identifier to be generated, such that the un-encoded version is never stored in the device's memory. Preferably, the image depicts a keypad which is standard for the device which it is being shown on. The device may be a mobile phone, a tablet computer, laptop, PC, payment terminal or any other electronic computing device with a screen. The underlying keypad, which is at least partially obscured from the user's view by the image, may be

generated at run time by a procedure call. Preferably, this procedure is native to the device ie part of a library which is provided as standard with the device.



21: 2017/08106. 22: 11/29/2017. 43: 4/23/2021
51: C22B
71: GRIREM ADVANCED MATERIALS CO., LTD
72: ZHANG, Xiaowei, MIAO, Ruiying, WU, Daogao,
ZHONG, Jiamin, YANG, Hongbo, LI, Yachong,
YANG, Bingzheng, WANG, Zhiqiang, CHEN,
Dehong
33: CN 31: 201611247017.2 32: 2016-12-29

54: RARE EARTH METAL AND ITS PURIFICATION METHOD

00: -
The method comprises: placing a rare earth metal rod vertically in the vacuum or protective atmosphere, heating locally the upper part of rare earth metal rod to melt to form melting zone, moving down the melting zone, stopping heat when the melting zone reaching the setting position, where is

1cm away from the rod bottom, and cutting off two ends of the re-solidified rod to obtain purified rare earth metal. The rare earth metal rod is placed vertically in present invitation, the top-down moving speed of the metallic impurities in melting zone is faster than that in the condition of the metal rod placed horizontally, it can be separated before the solidifying of the molten metal, and the purity of rare earth metal is improved. Due to increasing moving speed of the metallic impurities, the moving speed of melting zone can be increased, and then the purification period can be shortened. Mean-while, the expensive tantalum crucible is not needed in present invention; conventional zone refining equipment can satisfy the technical requirement, so that the purification cost is very low.

21: 2017/08385. 22: 12/11/2017. 43: 4/6/2021
51: E04H
71: Zodiac Pool Care Europe
72: FAVIE, Louis, BLANC TAILLEUR, Philippe,
PICHON, Philippe
33: FR 31: 1554277 32: 2015-05-12
54: POOL CLEANING APPARATUS WITH A FILTRATION DEVICE THAT CAN BE EXTRACTED VIA A LATERAL FACE

00: -
An apparatus for cleaning a surface that is submerged in a liquid, notably a pool cleaning robot, comprising a body, said body comprising lower, upper and lateral walls configured in such a way that said lower wall is intended to be positioned facing the submerged surface over which the apparatus (10) moves, said upper wall is opposite to said lower wall, said lateral walls connecting said upper and lower walls, means for moving the body (11) over said submerged surface. Said apparatus also comprises a central chamber (15), situated inside the body (11) and comprising a filter basket (151), said filter basket (151) comprising a filter wall, as well as an opening (113) allowing said filter basket (151) to be extracted from the body (11). Furthermore, said opening (113) is arranged on a lateral wall of the body (11).

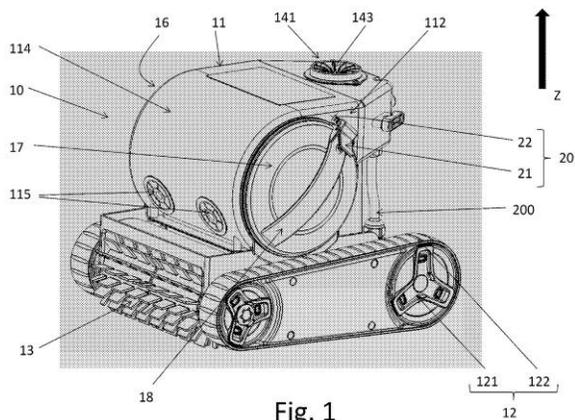
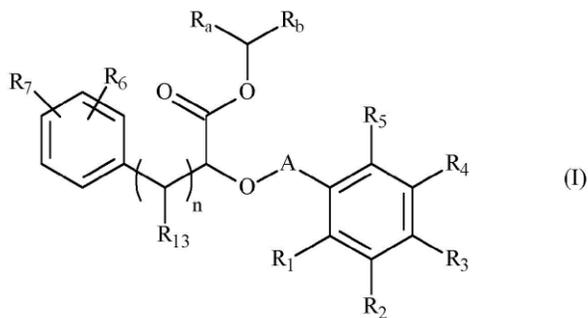


Fig. 1

21: 2017/08460. 22: 12/13/2017. 43: 4/6/2021
 51: A61K; A61P; C07D
 71: Les Laboratoires Servier, Vernalis (R&D) Limited
 72: SZLÁVIK, Zoltán, KOTSCHY, András, CHANRION, Maïa, DEMARLES, Didier, GENESTE, Olivier, DAVIDSON, James Edward Paul, MURRAY, James Brooke, SIPOS, Szabolcs, PACZAL, Attila, BÁLINT, Balázs
 33: FR 31: 1555752 32: 2015-06-23
54: NEW HYDROXYESTER DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM
 00: -

Compounds of formula (1) wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₁₃, R_a, R_b, A and n are as defined in the description. Medicaments containing them for use in the treatment of cancers.



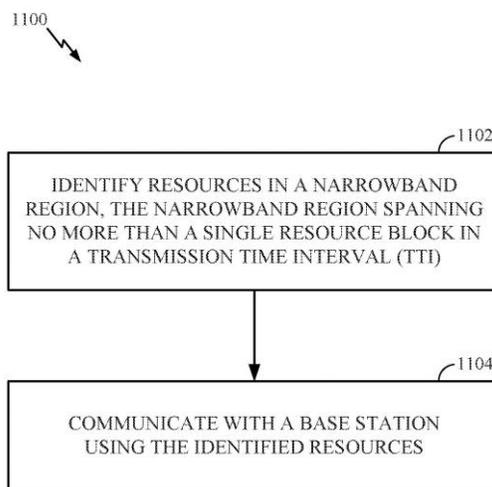
21: 2017/08554. 22: 12/15/2017. 43: 4/6/2021
 51: H04L
 71: QUALCOMM Incorporated

72: WEI, Yongbin, MALLADI, Durga Prasad, XU, Hao

33: US 31: 62/180,599 32: 2015-06-16

54: LONG-TERM EVOLUTION COMPATIBLE VERY NARROW BAND DESIGN

00: -
 Aspects of the present invention relate to wireless communications by a user equipment (UE), comprising, identifying resources in a narrowband region, the narrowband region spanning no more than a single resource block in a transmission time interval (TTI) and communicating with a base station using the identified resources.



21: 2017/08558. 22: 12/15/2017. 43: 4/6/2021
 51: G10L
 71: QUALCOMM Incorporated
 72: ATTI, Venkatraman, CHEBIYYAM, Venkata Subrahmanyam Chandra Sekhar
 33: US 31: 62/181,702 32: 2015-06-18
54: HIGH-BAND SIGNAL GENERATION
 00: -

A device for signal processing includes a memory and a processor. The memory is configured to store a parameter associated with a bandwidth-extended audio stream. The processor is configured to select a plurality of non-linear processing functions based at least in part on a value of the parameter. The processor is also configured to generate a high-band excitation signal based on the plurality of non-linear processing functions.

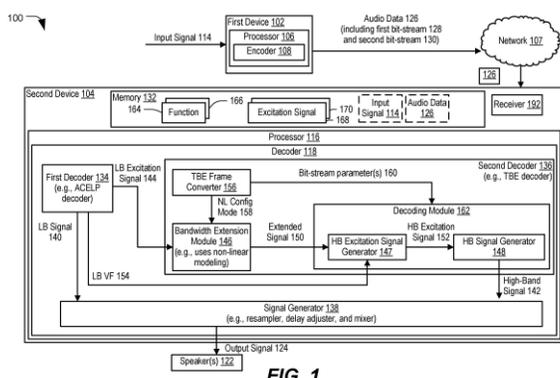


FIG. 1

21: 2017/08595. 22: 18/12/2017. 43: 4/23/2021
 51: A61K; A61P
 71: MARINOMED BIOTECHNOLOGIE GMBH
 72: GRASSAUER, Andreas, PRIESCHL-GRASSAUER, Eva, BODENTEICH, Angelika, KOLLER, Christiane, MOROKUTTI-KURZ, Martina
 33: EP 31: 15176670.6 32: 2015-07-14
54: STUFFY NOSE DEBLOCKING COMPOSITION HAVING ANTIVIRAL ACTIVITY

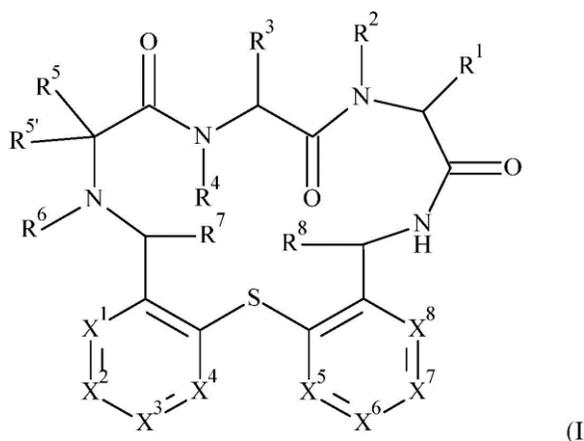
00: -
 The present invention relates to a pharmaceutical composition having a stuffy nose deblocking activity, characterized in that the composition comprises a hyperosmolar aqueous solution of a non-ionic osmolality adjusting agent, optionally in combination with an ionic osmolality adjusting agent, wherein the composition further comprises iota-carrageenan and/or kappa-carrageenan as an active antiviral ingredient in an antivirally effective amount, with the proviso that the composition in its ready-for-use formulation contains no more than 1.5% w/v of the ionic osmolality adjusting agent. The composition is useful for deblocking a stuffy nose and for prophylactic or therapeutic intervention of a number of viral infections of the upper respiratory tract.

21: 2017/08653. 22: 12/19/2017. 43: 4/6/2021
 51: A61K; A61P; C07K
 71: F. Hoffmann-La Roche AG
 72: ALANINE, Alexander, BEIGNET, Julien, BLEICHER, Konrad, FASCHING, Bernhard, HILPERT, Hans, HU, Taishan, MACDONALD, Dwight, JACKSON, Stephen, KOLCZEWSKI, Sabine, KROLL, Carsten, SCHAEUBLIN, Adrian, SHEN, Hong, STOLL, Theodor, THOMAS, Helmut, WAHHAB, Amal, ZAMPALONI, Claudia
 33: EP(CH) 31: 15191743.2 32: 2015-10-27

54: PEPTIDE MACROCYCLES AGAINST ACINETOBACTER BAUMANNII

00: -

The present invention provides compounds of formula (I) wherein X¹ to X⁸ and R¹ to R⁸ are as described herein, as well as pharmaceutically acceptable salts thereof. Further the present invention is concerned with the manufacture of the compounds of formula (I), pharmaceutical compositions comprising them and their use as medicaments for the treatment of diseases and infections caused by *Acinetobacter baumannii*.



(I)

21: 2017/08709. 22: 12/20/2017. 43: 4/6/2021
 51: G01R
 71: Quanta Associates, L.P.
 72: BALL, David James, MCLENNAN, Donald William
 33: US 31: 62/170,554 32: 2015-06-03
54: DIRECT CURRENT METER AND METHOD OF USE

00: -

An apparatus and method measures and analyzes DC current passing through a substantially insulating member or dielectric material that is electrically connected to, or otherwise conductive, between an energized DC electrical transmission line and an Earth potential or ground. An apparatus may utilize a DC current measuring device, a DC voltage level selection switch, a DC display, a graphical display of momentary leakage current, and an audio speaker. A process may entail extending a substantially insulating member or dielectric material between an

energized DC electrical transmission line and an Earth potential, detecting a DC momentary leakage current, using a DC momentary leakage current meter to measure DC current through the member or material, and a computer to analyze and compare the DC current, and deliver results or a warning that the DC current has reached a threshold value.

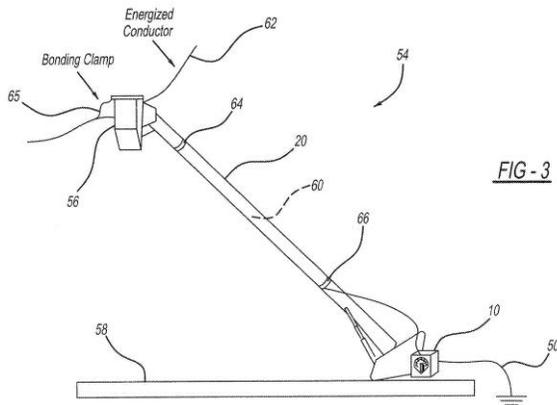


FIG - 3

21: 2018/00214. 22: 11/01/2018. 43: 4/30/2021
51: B08B

71: ARIEL-UNIVERSITY RESEARCH AND DEVELOPMENT COMPANY LTD.

72: DRORI, Elyashiv

33: US 31: 62/206,324 32: 2015-08-18

54: SYSTEM AND METHOD FOR CLEANING WINE AND/OR A BARREL CONTAINING WINE

00: -

There is disclosed a system and method for processing wine and/or a containing barrel, while keeping a volume of most of the wine in the barrel. The disclosed system and method can provide reduced mixing of different layers of wine in the barrel. An optional scrubbing mechanism cleans an interior surface of the barrel from encrusted matter, and an optional UV sterilization light source sanitizes an interior surface of the barrel that is alongside a cavity in the barrel empty of wine. In some embodiments a pumping and filtering system preserves non-mixing flow of wine in the barrel while effectively filtering wine optionally without the use of a filter cartridge or other interposing medium.

21: 2018/01709. 22: 3/13/2018. 43: 4/23/2021
51: A23L

71: Nisshin Foods Inc.

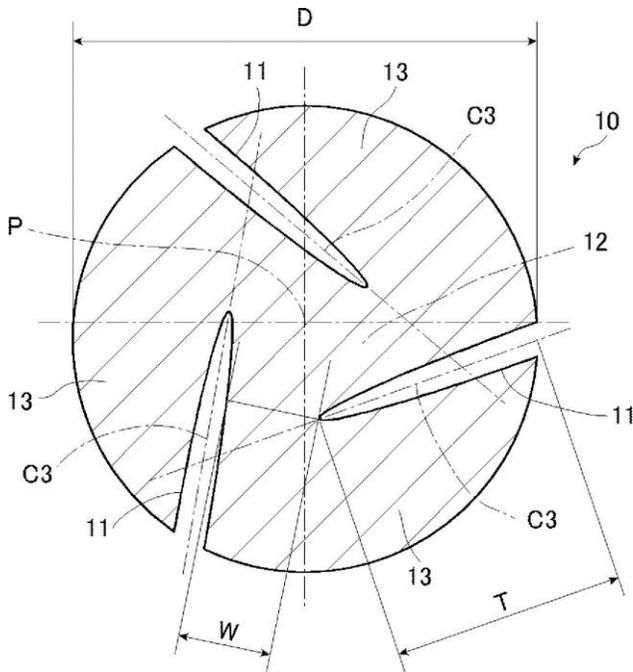
72: KIMURA, Ryusuke, HIGASHI, Masafumi

33: JP 31: 2015-180825 32: 2015-09-14

54: GROOVED NOODLES

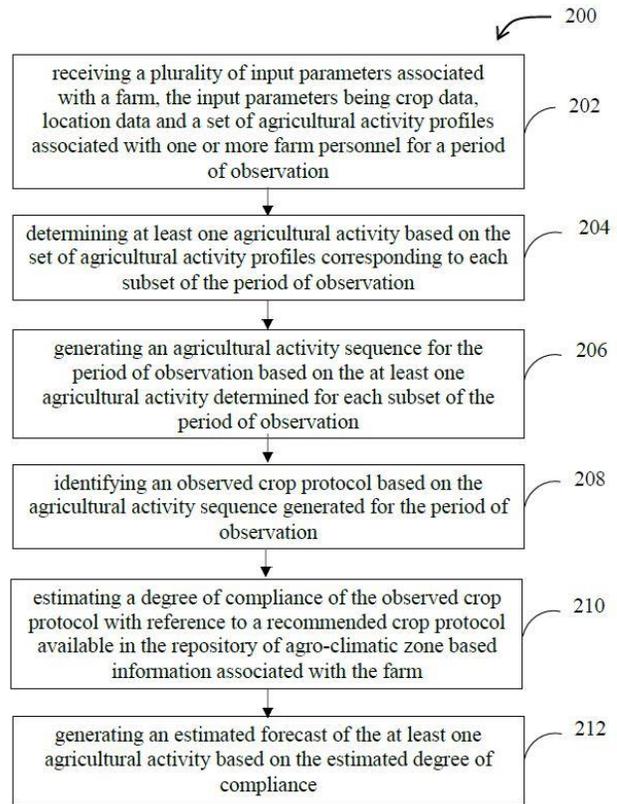
00: -

Grooved noodles have three grooves formed along the noodle length direction, and the transverse cross section of the noodle length has a substantially circular main outer shape. The three grooves are positioned in the transverse cross section of the noodle length at 120° intervals in the circumferential direction, and extend in the same rotation direction relative to the center point of the transverse cross section of the noodle length. Each of the grooves has a pair of mutually facing sides that extend from the opening of the groove toward the deepest part of the groove, a first opening end on the side closer to the center point out among the pair of sides, and a second opening end on the side further from the center point among of the pair of sides. The acute angle formed in each of the grooves by a straight line passing through the first opening end and the deepest part and a straight line passing through the first opening end and the center point is 12-28°. The area of a center region in each of the three grooves forming a triangle comprising three straight lines passing through the deepest part and the midpoint between the first opening end and the second opening end has a value of 6-34% relative to the area having the main outer shape when the three grooves are not present. The noodle length occupies 85% or more of the center region.



21: 2018/01905. 22: 3/22/2018. 43: 4/23/2021
 51: G06K; G06Q
 71: TATA CONSULTANCY SERVICES LIMITED
 72: SARANGI, Sanat, JAGYASI, Bhushan Gurmukhdas, SHARMA, Somya
 33: IN 31: 201721014956 32: 2017-04-27
54: SYSTEMS AND METHODS FOR ESTIMATING DEGREE OF COMPLIANCE WITH RECOMMENDED CROP PROTOCOL

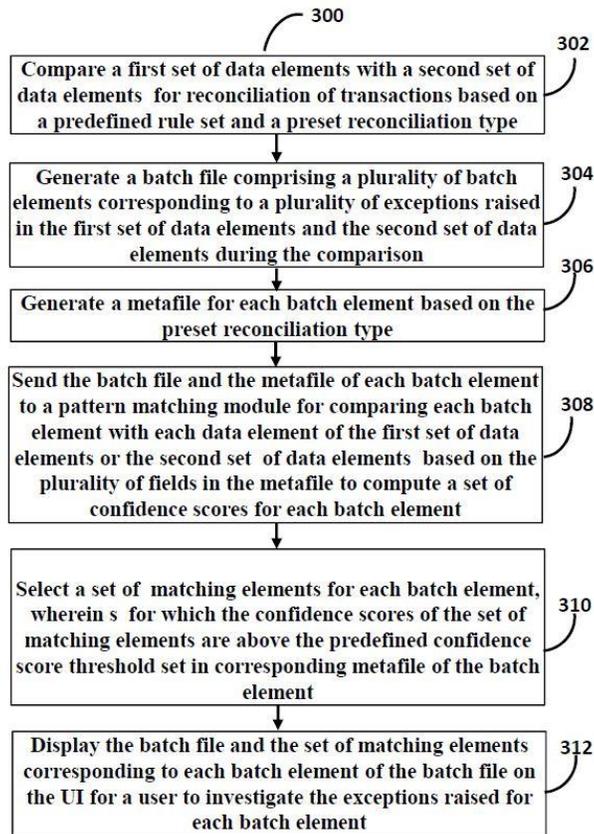
00: -
 Traceability of agricultural activities is very critical to market compliance. Mere automation of traditionally monitored agricultural activities alone may not address the challenge of providing a simple yet flexible and predictable method of effective and real time monitoring of agricultural activities around the farm that may be used to compute crop protocol for any crop under consideration. The systems and methods of the present disclosure facilitate automatic identification of crop protocol irrespective of the type of the crop and agricultural activities associated thereof. Real time monitoring of the agricultural activities also enable farm personnel to conclude on effects of dynamic changes in crop protocol thereby allowing continuous building up of the repository of agro-climatic zone based information associated with the farm. Regulating crop protocol results in a predictable increase in efficiency and sustainability of crop yield that helps farm personnel to optimize productivity.



21: 2018/01907. 22: 3/22/2018. 43: 4/23/2021
 51: G06Q
 71: TATA CONSULTANCY SERVICES LIMITED
 72: NAIR, Vinu, JOSEPH, Leroy, THOMAS, Hema
 33: IN 31: 201721039516 32: 2017-11-06
54: METHOD AND SYSTEM FOR MANAGING EXCEPTIONS DURING RECONCILIATION OF TRANSACTIONS

00: -
 A method and system for managing of exceptions during reconciliation of transactions, wherein the exceptions are raised for possible mismatches existing between data sets being compared. The reconciliation includes performing a first matching of the two sets based on a predefined rule set and a preset reconciliation type, wherein the first matching raises the exceptions. Further, the exceptions, as a batch file, are processed by performing a second matching for the exception-data based on pattern matching mechanism that utilizes fuzzy logic. The pattern matching mechanism is provided with metafiles corresponding to each batch element of the batch files. Further, only possible close matches are retrieved based on a predefined confidence score threshold. The close matches along with

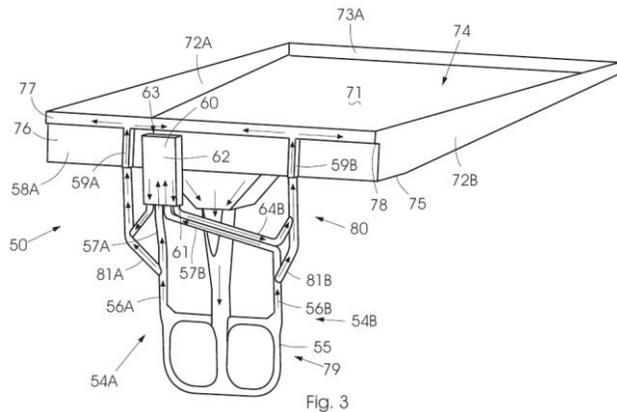
corresponding confidence score may be provided to a user on a User Interface (UI) for further investigation of the exceptions.



21: 2018/02711. 22: 23/04/2018. 43: 5/24/2021
 51: F27B; F27D
 71: FOURIE, Louis Johannes
 72: FOURIE, Louis Johannes
 33: ZA 31: 2015/05066 32: 2015-07-15
54: CHANNEL TYPE INDUCTION FURNACE
 00: -

Disclosed is a channel type induction furnace provided with a furnace floor that is inclined downwards from an operative rear of the furnace hearth towards an opposing operative front of the hearth, with a wall at the front of hearth comprising a bottom section and a top section, with the front wall bottom section extending further into the hearth than the front wall top section, and the front wall bottom section terminating in an upper edge in abutment with the front wall top section, with a down-passage to an induction heater, located proximate the front wall, having an inlet in the floor at a location proximate the base of the front wall and the or each

up-passage having an outlet in the floor at a location in abutment with the base of the front wall bottom section and with the front wall bottom section being provided with a vertical slot extending upwards above the or each up-passage through it and opening onto the upper edge of the bottom section.



21: 2018/03135. 22: 5/14/2018. 43: 12/2/2020
 51: G01H; G01S

71: TERRENCE KEITH ASHWIN
 72: TERRENCE KEITH ASHWIN
54: A WIRELESS IDENTIFICATION SENSOR AND SERVER APPARATUS
 00: -

A wireless communication identification server comprising a sensor having a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor. The sensor uses a software application enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information to when appropriately accessed.

21: 2018/03136. 22: 5/14/2018. 43: 12/2/2020
 51: G01H; G01S

71: TERRENCE KEITH ASHWIN
 72: TERRENCE KEITH ASHWIN
54: A WIFI HOTSPOT AUTHENTICATION SENSOR
 00: -

A wifi hotspot authentication sensor for use in enabling third party computing device functionality,

the sensor comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which SSID is broadcast upon activation of the hotspot, in use. The sensor uses a software application enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information to when appropriately accessed.

21: 2018/03137. 22: 5/14/2018. 43: 12/2/2020
51: G01H

71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN

54: A CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR

00: -

A controller unit having wireless communication identification sensor for use in enabling third party computing device functionality, the sensor comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which SSID is broadcast upon activation of the controller sensor, in use. The sensor uses a software application enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which inter-acts with the software application and communicates the user information to when appropriately accessed.

21: 2018/03139. 22: 5/14/2018. 43: 12/2/2020
51: G01H; G01S

71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN

54: A TRACKING CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR

00: -

A tracking controller unit having a wireless communication identification sensor, the sensor comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which SSID is broadcast upon

activation of the tracking controller, in use. The sensor uses a software application enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information when appropriately accessed.

21: 2018/03141. 22: 5/14/2018. 43: 12/2/2020
51: G01H; G01S

71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN

54: A LOCATION ACTIVATED WIFI AUTHENTICATION SENSOR

00: -

A location activated wifi sensor for requesting services having a wireless communication identification sensor, the sensor comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which SSID is broadcast upon activation of the tracking controller, in use. The activation of the sensor by a trigger event causes the sensor notification detection to be restricted to paired devices with a predetermined distance from the sensor gps coordinates. The sensor uses a soft-ware application enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information when appropriately accessed.

21: 2018/03142. 22: 5/14/2018. 43: 12/2/2020
51: G01H; G01S

71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN

54: A MESSAGE FORWARDING WIFI AUTHENTICATION SENSOR

00: -

A message forwarding wifi sensor for requesting services having a wireless communication identification sensor, the sensor comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the

sensor, which SSID is broadcast upon activation of the tracking controller, in use. The activation of the sensor by a trigger event causes the sensor notification detection to be restricted to affiliated devices within a predetermined distance from the sensor gps coordinates. The sensor uses a software application enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information when appropriately accessed.

21: 2018/03145. 22: 5/14/2018. 43: 12/2/2020
 51: G01H; G01L; G01S
 71: TERRENCE KEITH ASHWIN
 72: TERRENCE KEITH ASHWIN

54: A CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR FOR ACTIVATING EMERGENCY NOTIFICATION APPARATUS

00: -
 A controller unit having wireless communication identification sensor for use as an emergency rural controller unit for enabling associated computing device functionality, the sensor comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which SSID is broadcast upon activation if the controller sensor, in use. The sensor uses a software application which enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information when appropriately accessed.

21: 2018/03151. 22: 5/14/2018. 43: 12/2/2020
 51: G01H; G01L; G01S
 71: TERRENCE KEITH ASHWIN
 72: TERRENCE KEITH ASHWIN

54: A PERSONNEL TRACKING CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR

00: -
 A personnel tracking controller unit having a wireless communication identification sensor, the sensor

comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which SSID is broadcast upon activation of the tracking controller, in use. The sensor may comprise a standalone unit which transmits user related data, which data is incorporated in the SSID broadcast. Additionally, the user data may be readable through other wireless communication protocols such as RFID, NFC or Bluetooth. User identification is broadcast upon authentication data having been received an interrogating sensor, which interrogating sensor broadcasts at length one of authenticating data in its SSID to enable decrypted tracking controller SSID data to be broadcast, or the SSID data or part thereof is encrypted and requires decryption by authorised user or devices, in use.

21: 2018/03153. 22: 5/14/2018. 43: 12/2/2020
 51: G01H; G01L; G01S
 71: TERRENCE KEITH ASHWIN
 72: TERRENCE KEITH ASHWIN

54: AN EMERGENCY CONTROLLER DOCKING APPARATUS HAVING A WIFI AUTHENTICATION SENSOR

00: -
 An emergency controller unit docking apparatus having a wireless communication identification sensor comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination with the programmable data is configurable to identify the docking apparatus sensor and that of a second docking device sensor. In use, the second sensor is releasably securable to the docking apparatus. The docking apparatus and that of the second sensor are affiliated with a user whose identity and authority to enable computing device functionality is registered on at least one of the sensors or a computing device affiliated database. A sensor notification is generated upon function activation criteria being met. The notification is transmitted to at least one of a predetermined telephone number, email or other communication destination in addition to the sensor data being broadcast.

21: 2018/03658. 22: 6/1/2018. 43: 4/30/2021
 51: B61D

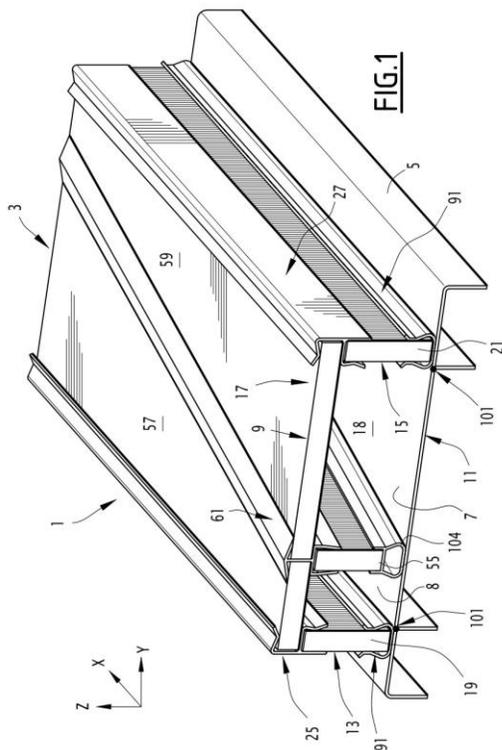
71: ALSTOM TRANSPORT TECHNOLOGIES
 72: KLINCKEMAILLIE, Vincent, MALLE, François,
 SCARAMUZZINO, Jean-Pierre

33: FR 31: 17 54946 32: 2017-06-02

54: AIR DIFFUSION DUCT FOR AERATION SYSTEM, IN PARTICULAR FOR A RAILWAY VEHICLE

00: -

The invention relates to an air diffusion duct for an aeration system, in particular for a railway vehicle, includes a plurality of elements assembled to one another and fastened on a ceiling structure of said railway vehicle, said elements together forming at least one air distribution conduit, each element having a hollow volume delimited by upper, lower and side walls substantially perpendicular to the upper and lower walls. Each element comprises an upside down U-shaped upper profile, forming the side and upper walls of said element, intended to be fastened on the ceiling structure and the lower wall is formed by a central ceiling wall having first removable fastening means to the ceiling structure.



21: 2018/04104. 22: 19/06/2018. 43: 5/10/2021

51: C21D; C22C

71: ARCELORMITTAL

72: Olga, A. GIRINA, Damon PANAHI

54: METHOD FOR PRODUCING A ULTRA HIGH STRENGTH GALVANNEALED STEEL SHEET AND OBTAINED GALVANNEALED STEEL SHEET

00: -

The present invention refers to a fiber reinforced polymer composition comprising a polypropylene, carbon fibers and a polar modified polypropylene as coupling agent as well as to an article comprising the fiber reinforced polymer composition.

21: 2018/04155. 22: 21/06/2018. 43: 4/30/2021

51: A61K; A61P

71: NUCANA PLC

72: GRIFFITH, Hugh

33: WO 31: PCT/GB2015/054158 32: 2015-12-23

33: GB 31: 1609770.1 32: 2016-06-03

54: COMBINATION THERAPY

00: -

This invention relates to a combination of gemcitabine-[phenyl-benzyloxy-L-alanyl]-phosphate (chemical name: 2'-Deoxy-2',2'-difluoro-D-cytidine-5'-O-[phenyl (benzyloxy- L- alaninyl)] phosphate) (NUC-1031) and a platinum-based anticancer agent selected from cisplatin, picoplatin, lipoplatin and triplatin. The combinations are useful in the treatment of cancer and particularly biliary tract and bladder cancer.

21: 2018/04523. 22: 7/6/2018. 43: 4/23/2021

51: H04B; H04W

71: QUALCOMM Incorporated

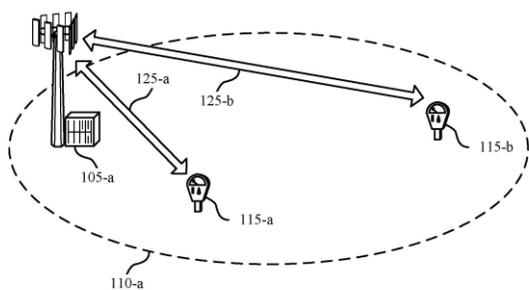
72: GAAL, Peter, WANG, Renqiu, WANG, Xiao Feng, XU, Hao, CHEN, Wanshi

33: US 31: 62/276,211 32: 2016-01-07

54: NARROW BAND PHYSICAL RANDOM ACCESS CHANNEL FREQUENCY HOPPING PATTERNS AND DETECTION SCHEMES

00: -

Methods, systems, and devices are described for wireless communication. Dedicated frequency resources of a physical random access channel (PRACH) may be designated for large and small frequency hops to facilitate the determination of timing offsets for PRACH transmissions. For instance, a frequency hopping pattern within the PRACH channel having a plurality of single tone transmission may include a first number of hops associated with a first frequency hopping distance (e.g., large frequency hops), and a second number of hops associated with a second frequency hopping distance (e.g., small frequency hops).



200

21: 2018/04570. 22: 09/07/2018. 43: 4/23/2021

51: D21H

71: BILLERUDKORSNÄS AB

72: NORDSTRÖM, Fredrik

33: EP 31: 16154285.7 32: 2016-02-04

54: LIQUID PACKAGING PAPER

00: -

A Kraft paper having a grammage of 65-85 g/m² according to ISO 536, wherein the Bendtsen roughness of at least one side of the paper is below 300 ml/min according to ISO 8791-2 and the geometric bending resistance of the paper according to ISO 2493-1 divided by the thickness of the paper according to ISO 534 is at least 0.65 mN/μm, preferably at least 0.72 mN/μm, such as at least 0.78 mN/μm, wherein the geometric bending resistance is measured using a bending angle of 150 and a test span length of 10 mm.

21: 2018/04769. 22: 7/17/2018. 43: 4/14/2021

51: C07C; C07D

71: Helsinn Healthcare SA

72: GIULIANO, Claudio, DAINA, Antoine, PIETRA, Claudio

33: US 31: 62/311,573 32: 2016-03-22

54: BENZENESULFONYL-ASYMMETRIC UREAS AND MEDICAL USES THEREOF

00: -

New benzenesulfonyl asymmetric ureas are herein disclosed, corresponding to the general formulas (I) - (IV) and pharmaceutically acceptable salts thereof,

whose structure and substituents are detailed in the specification. Procedures for the synthesis of these compounds are disclosed. The compounds are active on the ghrelin receptors, in particular they have inverse agonist activity; they are useful in preventing and/or treating diseases pathophysiologically mediated by the ghrelin receptor, like e.g. obesity, diabetes and substance abuse. Also disclosed are pharmaceutical compositions comprising a compound as herein defined and a pharmaceutically acceptable carrier or vehicle.

21: 2018/05874. 22: 8/31/2018. 43: 4/9/2021

51: H02J; H05B

71: Koninklijke Philips N.V.

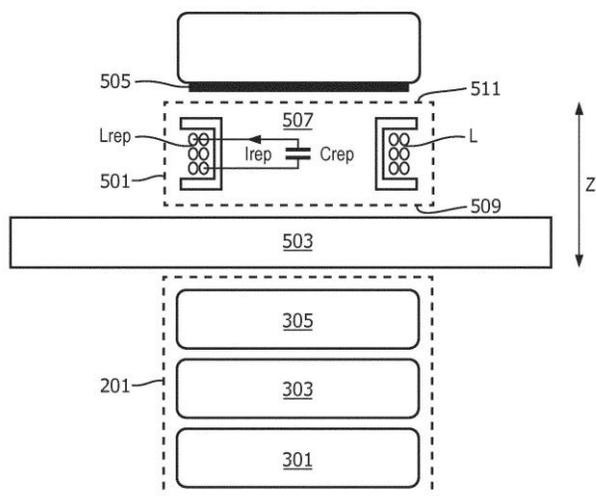
72: VAN WAGENINGEN, Andries

33: EP(NL) 31: 16153749.3 32: 2016-02-02

54: DEVICE, POWER TRANSMITTER AND METHODS FOR WIRELESS POWER TRANSFER

00: -

An intermediate device for supporting a power transfer to an electromagnetic load (505) from a power transmitter (201) comprises a resonance circuit (507) including an inductor (801) and a capacitor (803) where the inductor (801) is arranged to couple to the power transmitter (201) through a first surface area (509) and to the electromagnetic load (505) through a second surface area (511). The resonance circuit (507) is arranged to concentrate energy of the power transfer electromagnetic signal from the first surface area (509) towards the second surface area (511). The device further comprises a communicator (807) for exchanging messages with the power transmitter (201). The communicator (807) transmits a request message to the power transmitter (201) comprising a request for the power transmitter (201) to generate a measurement electromagnetic signal. A load indication processor (813) determines a load indication indicative of a loading of the measurement electromagnetic signal and a detector (815) detects a presence of the electromagnetic load in response to the load indication.



21: 2018/05945. 22: 05/09/2018. 43: 4/23/2021
 51: B29C; B29D; B32B; C09D; F16L
 71: AMIBLU TECHNOLOGY AS
 72: HAAVALDSEN, Jane Hilary Thatcher,
 SYVERSEN, Kjell Tony Hoe
 33: EP 31: 16159352.0 32: 2016-03-09
54: LINER FOR IMPACT RESISTANT GRP PIPES
 00: -

The invention relates to a glass-reinforced plastic pipe liner of improved impact performance comprising layer B) from unsaturated polyester resin, optionally mixed with vinyl ester resin reinforced by non-woven fibres and a layer C) from unsaturated polyester resin, optionally mixed with vinyl ester resin reinforced by chopped fibre strands. At least one of these layers B) or C) comprises colour pigments at 0.2 –5.0 wt%. The invention provides flexible liners for pressure and non-pressure GRP pipes. It improves impact performance of the pipe liner whilst offering also improvements in abrasion resistance, water-jet resistance for high pressure cleaning without liner damage, increased expected lifetime by improved resistance to internal pressure and permits pigmentation of the liner. The invention also encloses a process for producing the glass-reinforced plastic pipe liner.

21: 2018/06561. 22: 10/3/2018. 43: 4/14/2021
 51: A61K C07D
 71: ENANTA PHARMACEUTICALS, INC.
 72: QIU, Yao-Ling, GAO, Xuri, LI, Wei, CAO, Hui,
 JIN, Meizhong, KASS, Jorden, PENG, Xiaowen, OR,
 Yat, Sun

33: US 31: 62/337,675 32: 2016-05-17
 33: US 31: 62/304,671 32: 2016-03-07
54: HEPATITIS B ANTIVIRAL AGENTS
 00: -

The present invention discloses compounds of Formula (I), or pharmaceutically acceptable salts, esters, or prodrugs thereof: X-A -Y -L-R (I) which inhibit the protein(s) encoded by hepatitis B virus (HBV) or interfere with the function of the HBV life cycle of the hepatitis B virus and are also useful as antiviral agents. The present invention further relates to pharmaceutical compositions comprising the aforementioned compounds for administration to a subject suffering from HBV infection. The invention also relates to methods of treating an HBV infection in a subject by administering a pharmaceutical composition comprising the compounds of the present invention.

21: 2018/06629. 22: 05/10/2018. 43: 4/14/2021
 51: C07K; A61P
 71: SANOFI
 72: BENINGA, Jochen, LEUSCHNER, WulfDirk,
 BEIL, Christian, LANGE, Christian, CORVEY,
 Carsten, RAO, Ercole, YANG, ZhiYong, NABEL,
 Gary, J., WU, Lan, SEUNG, Edward, WEI, Ronnie
 33: US 31: 62/322, 036 32: 2016-04-13
 33: US 31: 62/331,191 32: 2016-05-03
 33: US 31: 62/412,187 32: 2016-10-24
 33: EP 31: EP17305298.6 32: 2017-03-17

54: TRISPECIFIC AND/OR TRIVALENT BINDING PROTEINS
 00: -

The disclosure provides trispecific and/or trivalent binding proteins comprising four polypeptide chains that form three antigen binding sites that specifically bind one or more target proteins, wherein a first pair of polypeptides forming the binding protein possess dual variable domains having a cross-over orientation and wherein a second pair of polypeptides forming the binding protein possess a single variable domain. The disclosure also provides methods for making trispecific and/or trivalent binding proteins and uses of such binding proteins.

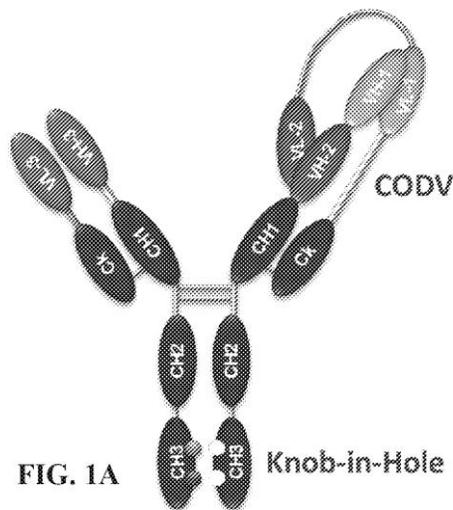


FIG. 1A Knob-in-Hole

21: 2018/06806. 22: 10/12/2018. 43: 4/14/2021
 51: A61K; A61P
 71: Universiteit Maastricht, Academisch Ziekenhuis Maastricht

72: WELTING, Tim Johannes Maria, CARON, Marjolein Maria Johanna

33: EP(NL) 31: 16165093.2 32: 2016-04-13

54: METHOD FOR THE TREATMENT OR PREVENTION OF OSTEOARTHRITIS.

00: -
 The present invention is in the field of medicine and provides means and methods for the treatment, prevention or amelioration of osteoarthritis. More in particular, it provides a peptide for use in the treatment, amelioration or prevention of osteoarthritis, wherein the peptide is between 12 and 28 amino acids in length and comprises an amino acid sequence according to SEQ ID NO: 16 or a variant thereof according to formula 2, wherein the amino acid sequence of said peptide is comprised in SEQ ID NO: 34 or a variant thereof according to formula 1.

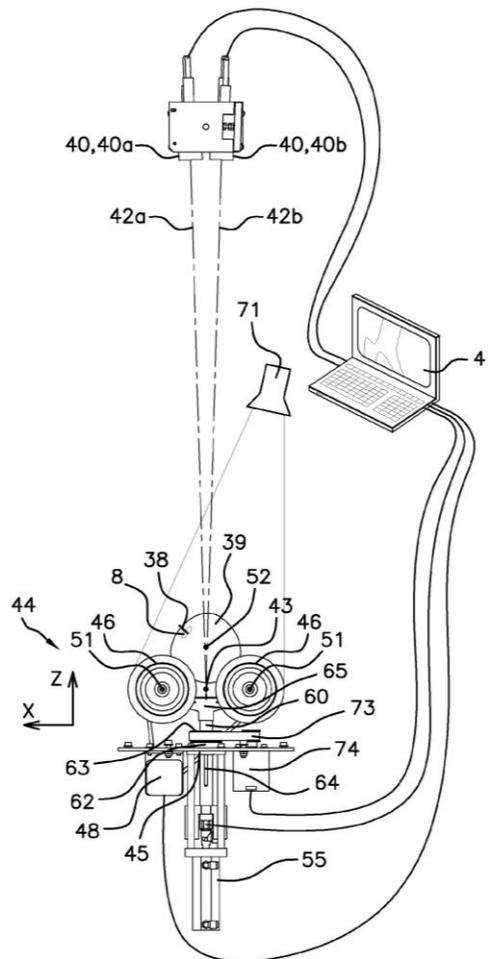
21: 2018/07168. 22: 10/26/2018. 43: 4/14/2021
 51: B07C; B65B
 71: MAF Agrobotic
 72: BLANC, Philippe

33: FR 31: 16 53810 32: 2016-04-28

54: METHOD AND DEVICE FOR ORIENTING AN UMBILICATED FRUIT, IN PARTICULAR FOR PACKAGING SAME

00: -
 The invention relates to a method and device for orienting an umbilicated fruit, in which, during a first

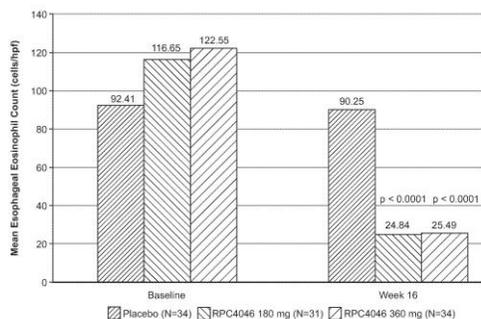
orientation phase (22), the presence of at least a portion of an umbilicus is detected in at least one initial image (II), then the fruit is driven (24) in spinning rotation about a first axis of rotation at an angular amplitude of between 5° and 45°, and then the presence of at least a portion of an umbilicus is detected in at least one subsequent image (IU). If at least a portion of an umbilicus is detected in at least one initial image (II) and no longer detected in each subsequent image (IU), the first orientation phase is stopped and the method is continued.



21: 2018/07174. 22: 10/26/2018. 43: 4/14/2021
 51: A61K; C07K
 71: AbbVie Inc.
 72: TIMONY, Gregg, GUJRATHI, Sheila, PEACH, Robert, OLSON, Allan
 33: US 31: 62/328,539 32: 2016-04-27

54: METHODS OF TREATMENT OF DISEASES IN WHICH IL-13 ACTIVITY IS DETRIMENTAL USING ANTI-IL-13 ANTIBODIES

00: -
The present invention is directed to methods for treating diseases in which IL-13 activity is detrimental, including eosinophilic esophagitis (EoE) and asthma, by administering to a subject in need of such treatment, a composition containing an interleukin- 13 (IL-13) antibody, or an antigen binding fragment, thereof.

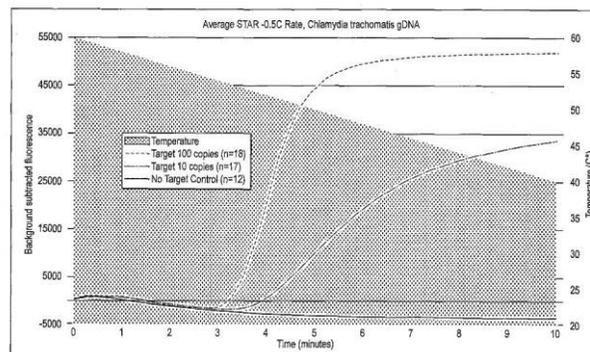


21: 2018/07460. 22: 07/11/2018. 43: 4/14/2021
51: B01L; C12Q
71: LUMIRADX UK LTD
72: PROVINS, Jarrod, SHEN, Daiwei, KRAYNACK, Bryan
33: GB 31: 1611469.6 32: 2016-06-30

54: IMPROVEMENTS IN OR RELATING TO NUCLEIC ACID AMPLIFICATION PROCESSES

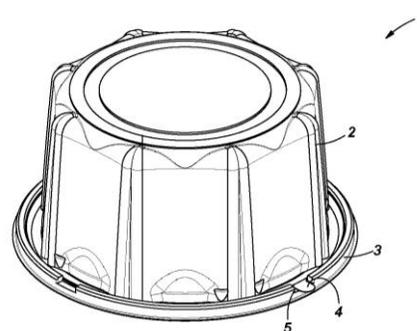
00: -
Disclosed is a method of performing a non-isothermal nucleic acid amplification reaction, the method comprising the steps of: (a) mixing a target sequence with one or more complementary single stranded primers in conditions which permit a hybridisation event in which the primers hybridise to the target, which hybridisation event, directly or indirectly, leads to the formation of a duplex structure comprising two nicking sites disposed at or near opposite ends of the duplex; and performing an amplification process by; (b) causing a nick at each of said nicking sites in the strands of the duplex; (c) using a polymerase to extend the nicked strands so as to form newly synthesised nucleic acid, which extension with the polymerase recreates nicking sites; (d) repeating steps (b) and (c) as desired so as to cause the production of multiple copies of the newly synthesised nucleic acid; characterised in that the temperature at which the method is performed is

non-isothermal, and subject to a reduction of at least 2° C during the amplification process of steps (b)-(d).



21: 2018/07532. 22: 11/8/2018. 43: 5/18/2021
51: B65D
71: ZIBO CONTAINER (PTY) LTD
72: SAREL ARNOLDUS CILLIERS LUBBE, ESLI PIETER COETZEE
33: ZA 31: 2017/07547 32: 2017-11-08
54: A CONTAINER

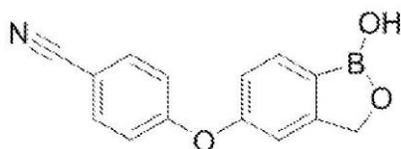
00: -
This invention relates to a container and more specifically, but not exclusively, to a cake container. The container includes a cover having cover engagement means and a base having complementary base engagement means. The cover and base engagement means are engageable in a snap-fit manner by forcing the cover and base together so that part of the cover engagement means engages operatively underneath part of the base engagement means when the attachment means are engaged with each other.



21: 2018/07892. 22: 11/22/2018. 43: 4/14/2021
51: A61K; A61P; C07F
71: Anacor Pharmaceuticals, Inc.
72: CHEN, Minhua, ZHANG, Yanfeng, LU, Fei, XIA, Nan, ZHANG, Xiaoyu

33: CN 31: 201610301832.6 32: 2016-05-09
54: CRYSTAL FORMS OF CRISABOROLE IN FREE FORM AND PREPARATION METHOD AND USE THEREOF

00: -
 The present invention relates to four crystal forms of crisaborole in free form and the preparation method thereof. The present invention also relates to the pharmaceutical composition containing the crystal forms and the use thereof.



AA 式 (I)

AA FORMULA (I)

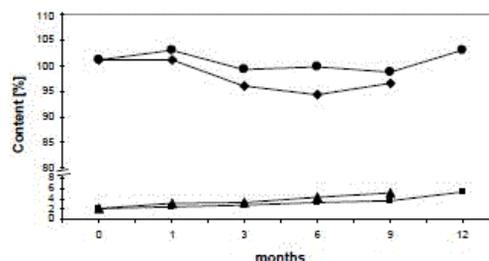
21: 2018/07955. 22: 20/11/2018. 43: 4/30/2021
 51: A61K; A61P
 71: BDMAEV, VLADIMIR
 72: BADMAEV, VLADIMIR
 33: US 31: 62/328,499 32: 2016-04-27
54: METHOD MAINTAINING IRON HOMEOSTASIS WITH SHOGAOLS

00: -
 Composition of shogaols and related compounds from Zingiberaceae family of plants for improved iron metabolism in health and prevention iron overload in patients in need of nutritional and/or therapeutic approach to ameliorate iron-overload.

21: 2018/08083. 22: 11/29/2018. 43: 4/23/2021
 51: A61K; A61P
 71: Bayer Intellectual Property GmbH
 72: KING, Kristina
 33: EP(DE) 31: 06014002.7 32: 2006-07-06
54: PHARMACEUTICAL COMPOSITION CONTAINING A TETRAHYDROFOLIC ACID

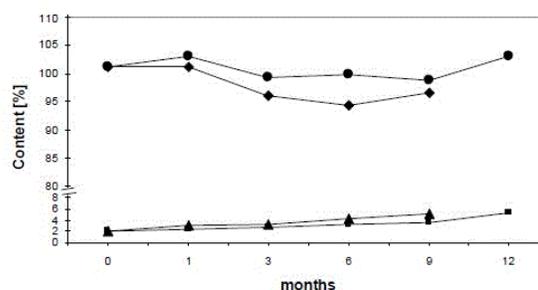
00: -
 The present invention relates to solid pharmaceutical compositions, in particular to oral contraceptives, comprising a progestogen, such as drospirenone; an estrogen, such as ethinylestradiol; a tetrahydrofolic acid or a pharmaceutically acceptable salt thereof, such as calcium 5-methyl-(6S)-tetrahydrofolate; and at least one pharmaceutical acceptable excipient or

carrier. The compositions of the invention provide good stability of the tetrahydrofolic acid upon storage while still ensuring a fast and reliable release of the estrogen and the progestogen present in the composition.



21: 2018/08084. 22: 11/29/2018. 43: 4/23/2021
 51: A61K; A61P
 71: Bayer Intellectual Property GmbH
 72: KING, Kristina
 33: EP(DE) 31: 06014002.7 32: 2006-07-06
54: PHARMACEUTICAL COMPOSITION CONTAINING A TETRAHYDROFOLIC ACID

00: -
 The present invention relates to solid pharmaceutical compositions, in particular to oral contraceptives, comprising a progestogen, such as drospirenone; an estrogen, such as ethinylestradiol; a tetrahydrofolic acid or a pharmaceutically acceptable salt thereof, such as calcium 5-methyl-(6S)-tetrahydrofolate; and at least one pharmaceutical acceptable excipient or carrier. The compositions of the invention provide good stability of the tetrahydrofolic acid upon storage while still ensuring a fast and reliable release of the estrogen and the progestogen present in the composition.



21: 2018/08316. 22: 10/12/2018. 43: 5/24/2021
 51: A01N; A01P

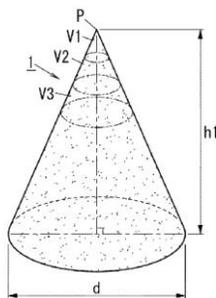
71: SANWA INSECTICIDE CO., LTD.
 72: Tomonori KOBAYASHI, Masanobu TAKEMOTO,
 Motonori TANAKA

33: JP 31: 2016-112875 32: 2016-06-06

54: MOSQUITO REPELLENT AND METHOD FOR ELIMINATING MOSQUITOS

00: -

The present invention relates to a mosquito repellent agent 1 involving an active ingredient and a burning base. The mosquito repellent agent 1 has a cone-like shape. The ratio of the diameter d of a bottom surface of the cone to the height h_1 of the cone is 1:1.5 to 1:6. The diameter d is 5 to 20 mm. The mass of the mosquito repellent agent 1 is 0.5 to 3 g.

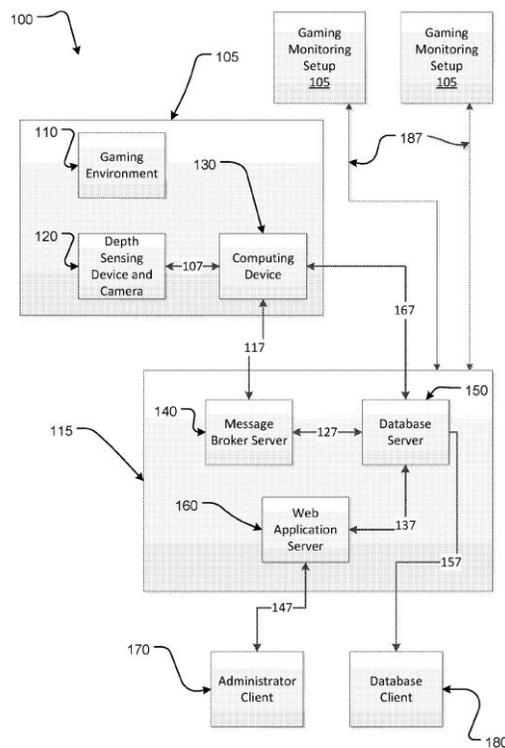


21: 2018/08402. 22: 12/12/2018. 43: 4/30/2021
 51: A63F; G06T
 71: SENSEN NETWORKS GROUP PTY LTD
 72: VO, Nhat Dinh Minh, CHALLA, Subhash, LI, Zhi
 33: AU 31: 2016901829 32: 2016-05-16

54: SYSTEM AND METHOD FOR AUTOMATED TABLE GAME ACTIVITY RECOGNITION

00: -

Some embodiments relate to a system for automated gaming recognition, the system comprising: at least one image sensor configured to capture image frames of a field of view including a table game; at least one depth sensor configured to capture depth of field images of the field of view; and a computing device configured to receive the image frames and the depth of field images, and configured to process the received image frames and depth of field images in order to produce an automated recognition of at least one gaming state appearing in the field of view. Embodiments also relate to methods and computer-readable media for automated gaming recognition. Further embodiments relate to methods and systems for monitoring game play and/or gaming events on a gaming table.



21: 2019/00044. 22: 03/01/2019. 43: 4/23/2021
 51: A61K; C07K
 71: INTERNATIONAL AIDS VACCINE INITIATIVE, INC. (IAVI)
 72: ANANTHA, RAVI P, EVANS, THOMAS G, BONAVIA, AURELIO M
 33: US 31: 62/350,837 32: 2016-06-16
54: TUBERCULOSIS COMPOSITIONS AND METHODS OF TREATING OR PREVENTING TUBERCULOSIS

00: -

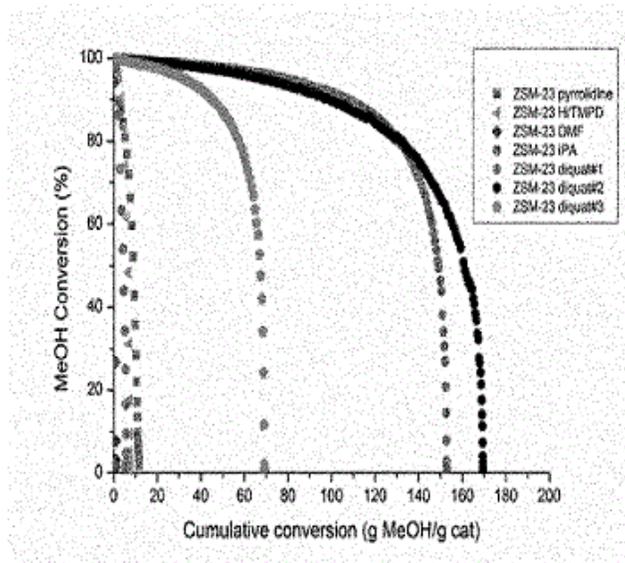
The present disclosure provides fusion proteins comprising Mycobacterium tuberculosis (Mtb) antigens, nucleic acid molecules encoding the same, vectors comprising nucleic acid molecules, compositions comprising the same, and methods of eliciting an immune response against tuberculosis.

21: 2019/00067. 22: 04/01/2019. 43: 4/6/2021
 51: B01J; C01B; C07C
 71: HALDOR TOPSØE A/S
 72: BEATO, PABLO, SVELLE, STIAN, ROJO GAMA, DANIEL, MOLINO, ANDREA, LUKASZUK, KATARZYNA ANNA, SKISTAD, WEGARD
 33: DK 31: PA 2016 00578 32: 2016-09-30
54: CATALYST COMPRISING SMALL 10-RING ZEOLITE CRYSTALLITES AND A METHOD FOR

PRODUCING HYDROCARBONS BY REACTION OF OXYGENATES OVER SAID CATALYST

00: -

A catalyst material comprises 10-ring zeolite crystallites with one-dimensional non-intersecting channels, such as TON (ZSM-22) and MTT (ZSM-23) wherein, the crystallites have an average length of less than 150 nm. The catalysts are useful in a method for producing hydrocarbons by reaction of oxygenates over said catalysts.



21: 2019/00117. 22: 08/01/2019. 43: 4/6/2021
51: C01B

71: UNIVERSITY OF THE WESTERN CAPE
72: PETRIK, LESLIE FELICIA, MISSENGUE-NA-MOUTOULA, ROLAND, AMEH, ALECHINE EMMANUEL, Hлатыwayo, TAPIWA
33: GB 31: 1610955.5 32: 2016-06-23

54: PROCESS FOR PRODUCTION OF HIGH SILICA CONTENT ZEOLITE FROM FLY ASH

00: -

The present invention provides for a process for the production of an aluminosilicate zeolite from fly ash, and in particular but not exclusively, to a process for producing a high silica content zeolite from fly ash without the addition of an external silica source, such as sodium silicate.

21: 2019/00122. 22: 08/01/2019. 43: 4/14/2021
51: C04B; C09D

71: AM TECHNOLOGY LIMITED
72: BERNARDONI, MASSIMO, CIANCI, ANTONIO

33: GB 31: 1613189.8 32: 2016-07-29

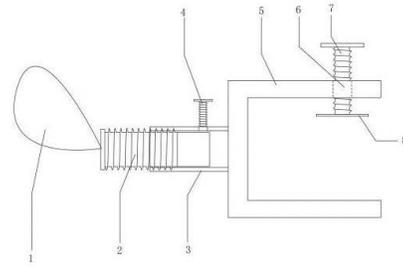
33: GB 31: 1611117.1 32: 2016-06-27

54: PHOTOCATALYTIC COMPOSITIONS, AND USES THEREOF FOR OBTAINING WATER PAINTS

00: -

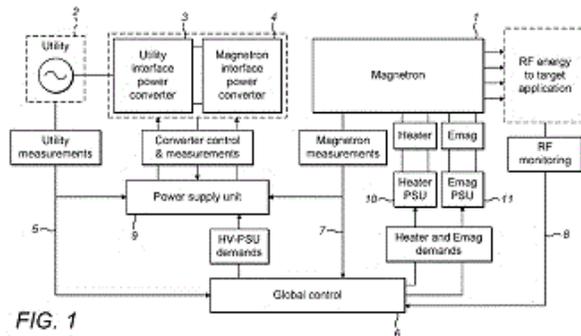
The field of the invention relates to photocatalytic compositions, e.g. cement-based photocatalytic compositions, and the uses thereof for obtaining water paints. There is provided a photocatalytic composition, which comprises: (a) at least one inorganic binder; (b) at least one photocatalyst; (c) at least one cellulose with very low viscosity; (d) at least one fluidizing agent; (e) at least one first calcareous filler in the form of particles of which at least 95% by weight has a dimension not greater than 40 µm; (f) at least one second calcareous filler in the form of particles of which at least 95% by weight has a dimension not greater than 20 µm; (g) at least one thermal insulator material comprising hollow ceramic spheres with sub- mm diameters, and (h) glass bubble borosilicate microspheres. Advantages include that the hollow ceramic spheres with sub-mm diameters improve the yield (the dried paint area painted per kg of liquid paint) on the surface for the dried paint product, improve the thermal insulation of the dried paint product, and improve the reflectance of the dried paint product; the glass bubble borosilicate microspheres improve the yield (the dried paint area painted per kg of liquid paint) on the surface for the dried paint product, improve the reflectance of the dried paint product and easiness of work of the liquid paint including the composition.

Product	Particle Size (microns, by volume) 3M QCM 193.0			Effective Top Size	
	10th%	50th%	90th%		
K Series	K1	30	65	115	120
	K15	30	60	105	115
	K20	30	60	90	105
	K25	25	55	90	105
	K37	20	45	80	85
S Series	K46	15	40	70	80
	S15	25	55	90	95
	S22	20	35	65	75
	S32	20	40	70	80
	S35	20	40	65	80
	S38	15	40	75	85
	S38HS	19	44	70	85
IM Series	S60	15	30	55	65
	S60HS	12	29	48	60
	IM16K	12	20	30	40
	IM30K	8.6	15.3	23.6	26.7



21: 2019/00132. 22: 1/9/2019. 43: 6/15/2021
 51: F16D
 71: HENAN POLYTECHNIC UNIVERSITY
 72: GUO, Jingwei
54: WIND-GATHERING BLADE FOR COOLING BRAKE PAD
 00: -
 Disclosed is a wind-gathering blade for cooling a brake pad including a wheel hub clamp. A threaded hole is provided at a clamp arm of the wheel hub clamp. A fixing bolt is provided at the thread hole. An end of the wheel hub clamp is provided with an internal threaded cylinder. A threaded opening is provided at a side wall of the internal threaded cylinder. A fastening bolt is provided at the threaded opening. A connecting bolt is provided in the internal threaded cylinder. An end of the connecting threaded bolt is provided with a fan blade. The fan blade in a shape of curved bevel cleaves air during travel of car, and the cleaved air will be gathered in gap for the heat dissipation of the brake pad. Therefore, the heat dissipation of the brake pad will be improved.

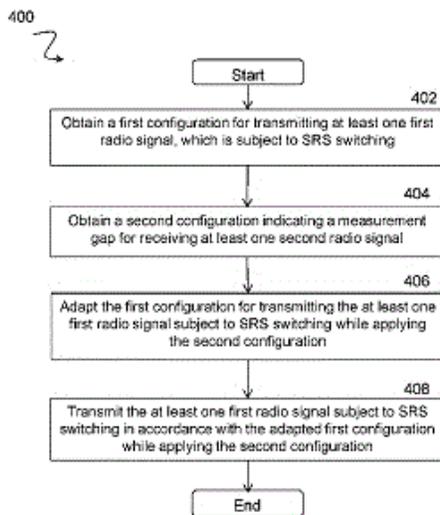
21: 2019/00276. 22: 15/01/2019. 43: 4/14/2021
 51: H05B
 71: THE UNIVERSITY OF NOTTINGHAM
 72: JI, CHAO, WATSON, ALAN JAMES, CLARE, JONATHAN CHARLES
 33: GB 31: 1611493.6 32: 2016-06-30
54: HIGH FREQUENCY HIGH POWER CONVERTER SYSTEM
 00: -
 A high frequency high power converter system comprises: a plurality of resonant tank circuits arranged in parallel, a plurality of transformers, each transformer having a single primary winding and a plurality of secondary windings, and a vacuum electronic device, the output of each resonant tank circuit being applied to a respective different transformer and the outputs of the transformers being arranged to drive the vacuum electronic device.



21: 2019/00308. 22: 16/01/2019. 43: 4/14/2021
 51: H04L
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: SIOMINA, IANA, KAZMI, MUHAMMAD, RAHMAN, IMADUR
 33: US 31: 62/402,144 32: 2016-09-30

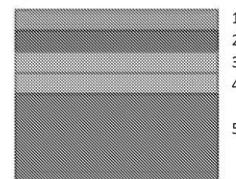
54: SYSTEMS AND METHODS FOR CONFIGURING MEASUREMENT GAPS AND SOUNDING REFERENCE SIGNAL SWITCHING

00: -
 According to certain embodiments, a method implemented in a wireless device (110A-C) for configuring measurement gaps and sounding reference signal (SRS) switching includes obtaining a first configuration for transmitting at least one first radio signal subject to SRS switching. A second configuration indicating a measurement gap for receiving at least one second radio signal is obtained. The first configuration is adapted for transmitting the at least one first radio signal subject to SRS switching while applying the second configuration. The at least one first radio signal subject to SRS switching is transmitted in accordance with the adapted first configuration while applying the second configuration.



21: 2019/00313. 22: 16/01/2019. 43: 5/14/2021
 51: C03C
 71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY
 72: QU, Shengguan, WANG, Bin, LI, Xiaoqiang, CAO, Xiaobing, LI, Gang, CHENG, Zhun, LI, Xiang-Long
54: OPTICS AL-MIRROR WITH HIGH VOLUME FRACTION SICP/AL COMPOSITE-TITANIUM ALLOY-BISMUTHATE GLASS METAL PLUS DIELECTRIC MULTIPLE FILMS AND METHOD FOR MANUFACTURING THE SAME
 00: -

A method of making a high volume fraction SiCp/Al composite-Titanium alloy-bismuthate glass metal plus dielectric multi-layer films optics Al-mirror, the method comprising: a step of preparing a novel mirror substrate, and a step of fabricating the mirror of film design. A high volume fraction SiCp/Al composite-Titanium alloy-bismuthate glass metal plus multi-layer films optics Al-mirror comprising, in sequence, at least: a high volume fraction SiCp/Al composite-Titanium alloy-bismuthate glass metal substrate, a transition layer, a reflection layer, a protection layer, and a transmission enhanced layer. The substrate is high volume fraction SiCp/Al composite-Titanium alloy-bismuthate glass metal substrate, the transition layer is a Cr film, the reflector layer is an Al film, the protective layer is SiO₂ and the transmission enhanced layer is Ta₂O₅. The high volume fraction SiCp/Al composite-Titanium alloy-bismuthate glass metal plus multi-layer films optics Al-mirror has outstanding optical features: the maximum reflectivity can reach up to 97% in a visible wavelength range of 450-720 nm, and lightweight and stability than traditional optical pure glass mirror.



21: 2019/00334. 22: 17/01/2019. 43: 4/14/2021
 51: A01B; A01C; G01B
 71: PRECISION PLANTING LLC
 72: SWANSON, Todd, KOCH, Dale, VACCARI, Adam, TRAVIS, Dexter, HARMAN, Reid, STRNAD, Michael, HODEL, Jeremy
 33: US 31: 62/365,585 32: 2016-07-22
 33: US 31: 62/491,707 32: 2017-04-28
54: AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS, AND APPARATUS
 00: -

An agricultural trench depth sensing system having a trench implement adapted to be disposed in a soil trench opened in a soil surface. In one embodiment an ultrasonic sensor detects a distance to an upper surface of said trench implement or a target disposed thereon. In another embodiment, said

trench implement includes one or more fingers which rotate with respect to said trench implement to detect the soil surface relative to said trench implement. In another embodiment, said trench implement includes side sensors for detecting the sidewall of the soil trench.

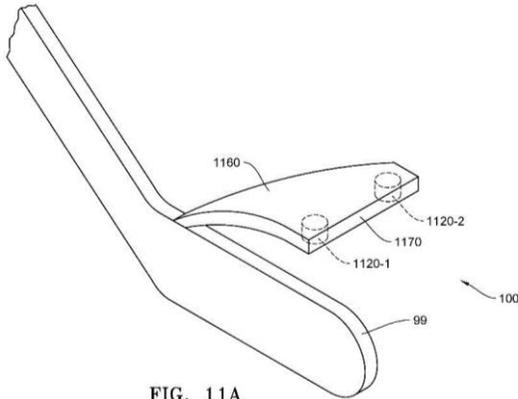
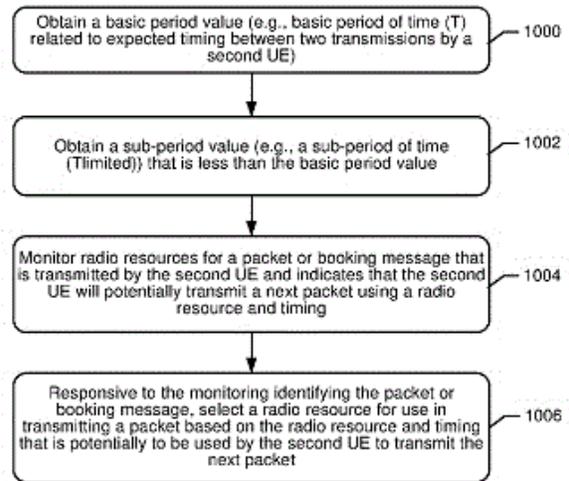


FIG. 11A



21: 2019/00349. 22: 17/01/2019. 43: 4/14/2021
 51: H04W
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: BLASCO SERRANO, RICARDO, SUN, WANLU, BELLESCHI, MARCO, DO, HIEU, SORRENTINO, STEFANO
 33: US 31: 62/374,232 32: 2016-08-12
54: SELECTING RADIO RESOURCE

00: -
 A method by a first UE for selecting a radio resource for transmitting a packet, includes obtaining a basic period value related to expected timing of transmissions by a second UE. A sub-period value is obtained that is less than the basic period value. Radio resources are monitored for a packet or booking message that is transmitted by the second UE and indicates that the second UE will potentially transmit a next packet using a radio resource and timing. The monitoring is restricted to a timeframe determined based on the sub-period value within each occurrence of a time period determined based on the basic period value. Responsive to the monitoring identifying the packet or booking message, a radio resource is selected for use in transmitting a packet based on the radio resource and timing that is potentially to be used by the second UE to transmit the next packet.

21: 2019/00399. 22: 1/21/2019. 43: 4/30/2021
 51: E21D
 71: PIENAAR, Frans Roelof Petrus, HOWELL, Mark
 72: PIENAAR, Frans Roelof Petrus, HOWELL, Mark
 33: ZA 31: 2017/07081 32: 2017-10-19
54: MINE SUPPORT BLOCK

00: -
 The invention relates to a structural support block which is usable in a modular fashion to build stacked block hanging wall support packs of different dimensions. The support block comprises a bag filled with an initially plastic settable bag filling material that has been allowed to set within the bag. The bag is dimensioned and assembled to provide the assembled bag with a predetermined three-dimensional shape that includes opposed support surfaces. The structural support block is pre-formed during filling and setting of the filling material by means of a former/mould shaped complementally to the predetermined bag shape. The bag has at least one reinforcing web extending at least partially across at least one support surface.

21: 2019/00423. 22: 21/01/2019. 43: 4/14/2021
 51: A61K; A61P
 71: MENLO THERAPEUTICS INC.
 72: BASTA, STEVEN, JOING, MARK, ZHANG, XIAOMING, KWON, PAUL
 33: US 31: 62/356,271 32: 2016-06-29
 33: US 31: 62/356,280 32: 2016-06-29
 33: US 31: 62/356,291 32: 2016-06-29
 33: US 31: 62/356,301 32: 2016-06-29
 33: US 31: 62/356,264 32: 2016-06-29

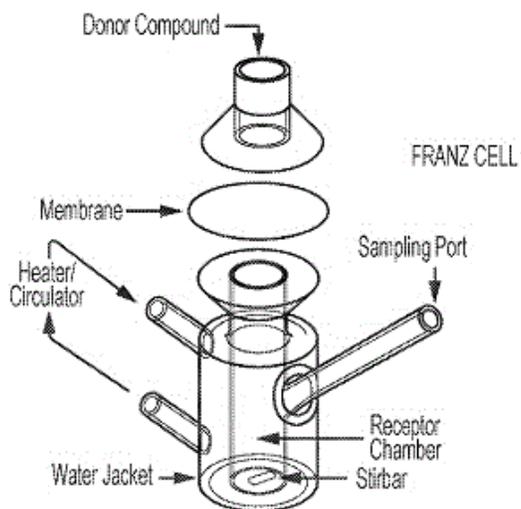
33: US 31: 62/356,294 32: 2016-06-29

33: US 31: 62/356,286 32: 2016-06-29

54: USE OF NEUROKININ-1 ANTAGONISTS TO TREAT A VARIETY OF PRURITIC CONDITIONS

00: -

The disclosure relates to the use of neurokinin-1 (NK-1) antagonists, such as serlopitant, in treating acute or chronic pruritus associated with a variety of medical conditions, including dermatitis/eczema, psoriasis, prurigo, urticaria, cutaneous T-cell lymphoma, epidermolysis bullosa, burns and hepatobiliary diseases, or/and treating the medical conditions themselves. One or more additional antipruritic or therapeutic agents can optionally be used in combination with an NK-1 antagonist to treat acute or chronic pruritus associated with a medical condition or/and the medical condition itself.



21: 2019/00456. 22: 22/01/2019. 43: 4/14/2021

51: C07K; G01N; C12N; A61K

71: HOWARD HUGHES MEDICAL INSTITUTE

72: STERNSON, SCOTT, LEE, PETER, MAGNUS, CHRISTOPHER

33: US 31: 62/486,779 32: 2017-04-18

33: US 31: 62/359,534 32: 2016-07-07

54: MODIFIED LIGAND-GATED ION CHANNELS AND METHODS OF USE

00: -

This document relates to materials and methods for controlling ligand gated ion channel (LGIC) activity. For example, modified LGICs including at least one LGIC subunit having a modified ligand binding domain (LBD) and/or a modified ion pore domain (IPD) are provided. Also provided are exogenous

LGIC ligands that can bind to and activate the modified LGIC, as well as methods of modulating ion transport across the membrane of a cell of a mammal, methods of modulating the excitability of a cell in a mammal, and methods of treating a mammal having a channelopathy.

21: 2019/00483. 22: 23/01/2019. 43: 4/14/2021

51: C07K; A61K

71: MORPHOSYS AG

72: GARIDEL, PATRICK, LANGER, ANDREAS, HESSLING, MARTIN, WEINFURTNER, DANIEL, BROCKS, BODO

33: EP 31: 16176322.2 32: 2016-06-27

54: ANTI-CD19 ANTIBODY FORMULATIONS

00: -

The present disclosure describes a pharmaceutical formulation of an anti-CD19 antibody.

21: 2019/00508. 22: 24/01/2019. 43: 4/14/2021

51: B01J

71: MITSUBISHI CHEMICAL CORPORATION

72: ITO, MITSUNOBU, TAZAWA, KAZUHARU, ABE, YOSHIMUNE

33: JP 31: 2017-088647 32: 2017-04-27

33: JP 31: 2017-098452 32: 2017-05-17

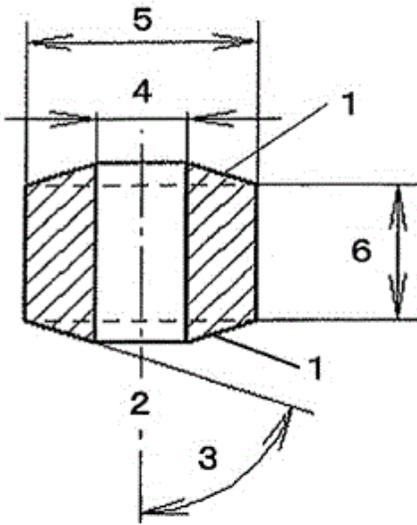
33: JP 31: 2017-098451 32: 2017-05-17

33: JP 31: 2016-145419 32: 2016-07-25

54: CATALYST, ACRYLIC ACID PRODUCTION METHOD, AND CATALYST PRODUCTION METHOD

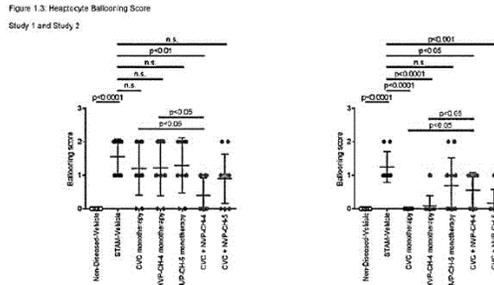
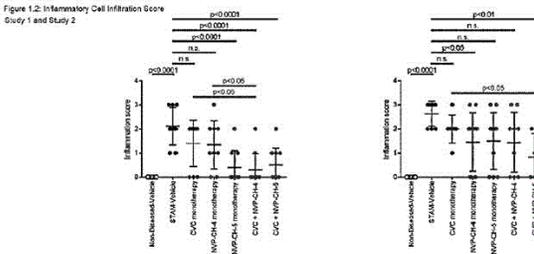
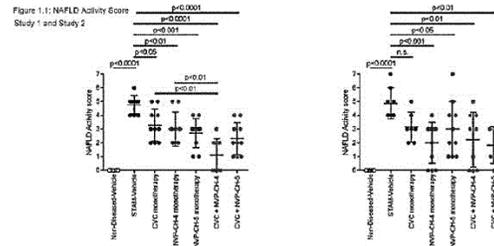
00: -

An object of the present invention is to provide a catalyst ensuring that in the case of causing gas-phase catalytic oxidation of an unsaturated aldehyde and an oxygen-containing gas with use of the catalyst to produce a corresponding unsaturated carboxylic acid, the pressure loss can be kept low and an unsaturated carboxylic acid can be produced with high selectivity. The present invention relates to a ring-shaped or columnar catalyst, which is used at the time of producing a corresponding unsaturated carboxylic acid by causing gas-phase catalytic oxidation of an unsaturated aldehyde and an oxygen-containing gas, wherein the outer peripheral edge part is inclined relative to the center line.



21: 2019/00528. 22: 25/01/2019. 43: 3/24/2021
 51: A61K; A61P
 71: NOVARTIS AG
 72: BAUER, Andreas, MUELLER, Patrick, LAFFITTE, Bryan
 33: US 31: 62/394,446 32: 2016-09-14
54: COMBINATION OF FXR AGONISTS
 00: -

The invention provides pharmaceutical compositions comprising a farnesoid X receptor (FXR) agonist and another therapeutic agent, in particular for treating or preventing liver diseases or disorders.

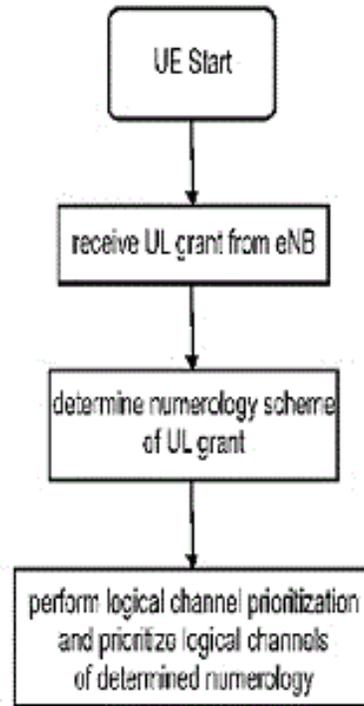


21: 2019/00543. 22: 25/01/2019. 43: 4/14/2021
 51: B01J; C07C
 71: IFP ENERGIES NOUVELLES, ARKEMA FRANCE
 72: LAROCHE, CATHERINE, LEFLAIVE, PHILIBERT, BOUVIER, LUDIVINE, LUTZ, CÉCILE
 33: FR 31: 1656031 32: 2016-06-28
54: ZEOLITE ADSORBENT IN THE FORM OF LOW-TORTUOSITY AGGLOMERATES
 00: -

The invention concerns a zeolite adsorbent in the form of agglomerates, having: - a tortuosity factor t , calculated from the pore distribution determined by mercury intrusion porosimetry, strictly greater than 1 and strictly less than 3, - a porosity ep , determined by mercury porosimetry, of between 25% and 35%, where V_{ma} designates the macroporous volume, V_{me} the mesoporous volume and V_g , the grain volume of the adsorbent, in $cm^3.g^{-1}$. The invention also concerns the method for preparing same and a method for separating para-xylene from aromatic hydrocarbon isomer fractions containing 8 carbon atoms by adsorbing the para-xylene by means of said adsorbent.

21: 2019/00608. 22: 29/01/2019. 43: 4/6/2021
 51: H04L; H04J; H04W
 71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
 72: LOEHR, JOACHIM, BASU MALLICK, PRATEEK, SUZUKI, HIDETOSHI
 33: EP 31: 16191772.9 32: 2016-09-30
54: IMPROVED UPLINK RESOURCE ALLOCATION AMONG DIFFERENT OFDM NUMEROLOGY SCHEMES

00: -
 The present disclosure relates to a resource allocation procedure, performed between a user equipment and radio base station. The UE is configured with at least one numerology scheme, each associated with parameters partitioning time-frequency radio resources into resource scheduling units differently. The UE is configured with logical channels each of which is associated with at least one numerology scheme. A receiver of the UE receives from the radio base station an uplink scheduling assignment, which indicates uplink radio resources usable by the UE. A processor of the UE determines for which numerology scheme the received uplink scheduling assignment is intended based on the received uplink scheduling assignment. The processor performs a logical channel prioritization procedure by allocating the assigned uplink radio resources to the configured logical channels and by prioritizing those logical channels that are associated with the numerology scheme for which the uplink scheduling assignment is intended.



21: 2019/00663. 22: 1/31/2019. 43: 4/6/2021
 51: H04L
 71: Huawei Technologies Co., Ltd.
 72: LI, Zhongfeng, CAO, Yongzhao
 33: CN 31: 201610666714.5 32: 2016-08-12
54: DATA COMMUNICATION METHOD AND DEVICE

00: -
 The embodiments of the application provide a data transmission method and apparatus. the method comprises: a terminal acquires first indication information or second indication information, wherein the first indication information is used to indicate that a resource element carries a reference signal, and the second indication information is used to indicate that the resource element does not carry the reference signal; and the terminal performs, according to the first indication information or the second indication information, data transmission. The embodiment can be employed to reasonably configure a reference signal.

终端获取第一指示信息或第二指示信息，第一指示信息用于指示资源单位中承载参考信号，第二指示信息用于指示资源单位中不承载参考信号

终端基于第一指示信息或第二指示信息进行数据传输

图 3

301 A terminal acquires first indication information or second indication information, wherein the first indication information is used to indicate that a resource element carries a reference signal, and the second indication information is used to indicate that the resource element does not carry the reference signal
302 The terminal performs, according to the first indication information or the second indication information, data transmission

21: 2019/00668. 22: 31/01/2019. 43: 4/6/2021

51: C11D

71: UNILEVER PLC

72: ADAMS, AMANDA JANE, CROSSMAN, MARTIN CHARLES, MOORE, PHILIP RONALD

33: EP 31: 16183548.3 32: 2016-08-10

54: LAUNDRY COMPOSITION

00: -

A powder composition for laundry, comprising: a. Silicone; b. cationic polymer; and c. 60 to 90 w.t. % zeolite; wherein the silicone composition and cationic polymer are loaded onto the carrier, and the combined weight of silicone and cationic polymer is 15 to 35 w.t. % of the powder composition. A unit dose capsule containing the powder composition. A method of producing the powder composition, method comprising the steps of: - Preparing a premix of silicone and cationic polymer - Adding the premix to the zeolite - Mixing - Optionally adding the powder to another laundry product Use of the powder composition of any preceding claim for softening textiles.

21: 2019/00669. 22: 31/01/2019. 43: 4/14/2021

51: C07D; C07F; A61K; A61P

71: FRIEDRICH-ALEXANDER-UNIVERSITÄT ERLANGEN-NÜRNBERG,

UNIVERSITÄTSKLINIKUM ERLANGEN

72: PRANTE, OLAF, KUWERT, TORSTEN, GMEINER, PETER, BANERJEE, ASHUTOSH, MASCHAUER, SIMONE

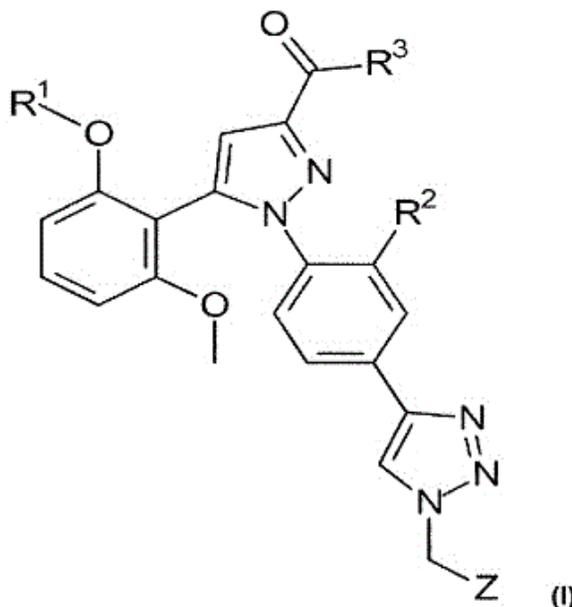
33: EP 31: 16182597.1 32: 2016-08-03

54: DIAGNOSIS, TREATMENT AND PREVENTION OF NEUROTENSIN RECEPTOR-RELATED CONDITIONS

00: -

The present invention describes a compound of formula (I) which can be used in the diagnosis, treatment or prevention of neurotensin receptor-

related conditions such as tumors and hematological malignancies.



21: 2019/00696. 22: 01/02/2019. 43: 4/6/2021

51: C01B; B22F

71: HÖGANÄS AB

72: SHEVCHENKO, RUSLAN ALEKSEEVICH, VAKHRUSHIN, ALEXANDER YURIEVICH, CHUKANOV, ANDREY PAVLOVICH

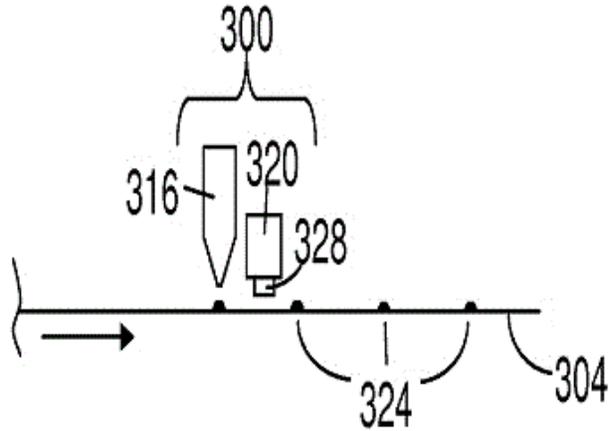
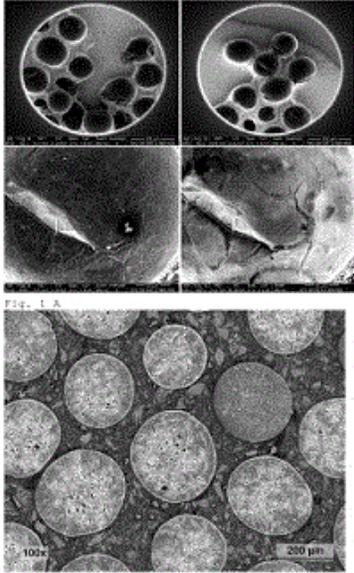
33: RU 31: 2016129969 32: 2016-07-21

54: MANUFACTURE OF TUNGSTEN MONOCARBIDE (WC) SPHERICAL POWDER

00: -

The invention relates to powder metallurgy, in particular production of tungsten monocarbide spherical powders, which is a major component of metalceramic hard alloys used for manufacture of tools, drill bits, steel alloying, wear-resistant coating cladding at elements operating in intensive wear conditions. The method includes melting of the starting material, and melt atomization with forming of spherical powder. As starting material a tungsten monocarbide grit is used. Melting and atomization of the material is implemented by continuous filling of grit into a rotating crucible of a centrifugal atomization device under an inert atmosphere and melting it by a plasma arc. After that an annealing of the obtained powder is made at a temperature of 1200-1400°C during a time necessary for W2C breakup with subsequent cooling of the powder in a furnace. The invention is directed to production of

tungsten monocarbide spherical powder with WC content of more than 70 %.



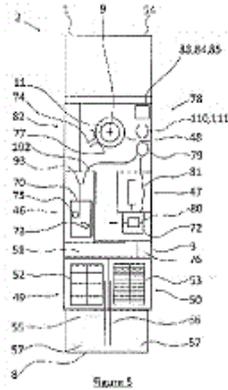
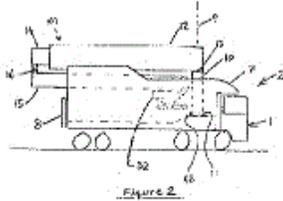
21: 2019/00720. 22: 04/02/2019. 43: 4/23/2021
 51: B65B; B32B
 71: TETRA LAVAL HOLDINGS & FINANCE S.A.
 72: ROSENLOF, TORBJORN
 33: EP 31: 16182640.9 32: 2016-08-03
**54: PACKAGING MATERIAL COMPRISING
 MAGNETIZED PORTIONS AND METHOD FOR
 MAGNETIZING THE MATERIAL**

00: -
 A device (109, 300) for magnetizing a packaging material (104, 200, 220, 304) for food-containing packages (176) is disclosed. The device (109, 300) comprises a feeder for feeding a packaging material (104, 200, 220, 304) through the device, the packaging material having a plurality of portions of magnetisable ink. The device (109, 300) also comprises a static bar (116, 320) having at least one magnet (120, 328) for magnetizing the portions of ink (208, 324) applied to the packaging material (104, 200, 220, 304). A system (100) for producing a packaging material (104) is also disclosed. A method of magnetizing a packaging material for a food-containing package is further disclosed.

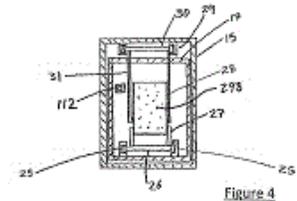
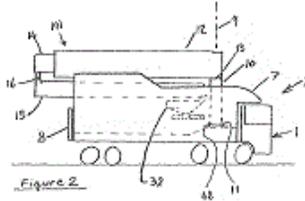
21: 2019/00745. 22: 05/02/2019. 43: 4/14/2021
 51: E04G; B25J; B65G
 71: FASTBRICK IP PTY LTD
 72: PIVAC, MARK
 33: AU 31: 2016902787 32: 2016-07-15
**54: BRICK/BLOCK LAYING MACHINE
 INCORPORATED IN A VEHICLE**

00: -
 A self-contained truck-mounted brick laying machine (2) is described. A truck (1) supports the brick laying machine (2) which is mounted on a frame (3) on the truck chassis. The frame (3) supports packs or pallets of bricks (52, 53) placed on a platform (51). A transfer robot can then pick up an individual brick and move it to, or between either a saw (46) or a router (47) or a carousel (48). The carousel is located coaxially with a tower (10), at the base of the tower (10). The carousel (48) transfers the brick via the tower (10) to an articulated (folding about horizontal axis (16)) telescoping boom comprising first boom element in the form of telescopic boom (12, 14) and second boom element in the form of telescopic stick (15, 17, 18, 19, 20). The bricks are moved along the folding telescoping boom by linearly moving shuttles, to reach a brick laying and adhesive applying head (32). The brick laying and adhesive applying head (32) mounts to element (20) of the stick, about an axis (33) which is disposed horizontally. The poise of the brick laying and adhesive applying head (32) about the axis (33) is adjusted and is set in use so that the base (811) of a clevis (813) of the robotic arm (36) mounts about a horizontal axis, and the tracker component (130) is disposed uppermost on the brick laying and adhesive applying head (32). The brick laying and

adhesive applying head (32) applies adhesive to the brick and has a robot that lays the brick. Vision and laser scanning and tracking systems are provided to allow the measurement of as-built slabs, bricks, the monitoring and adjustment of the process and the monitoring of safety zones. The first, or any course of bricks can have the bricks pre machined by the router module (47) so that the top of the course is level once laid.

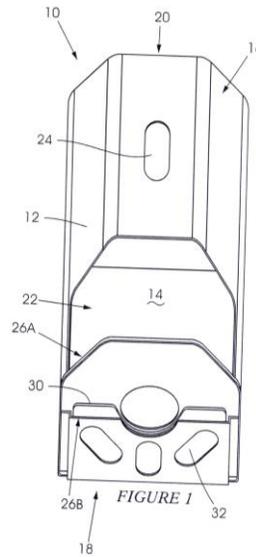


elements (17) and (15) are located opposite each other. The inner tubular elements inside said telescoping extendable boom are arranged at their near ends to allow their shuttles to access shuttles of outer tubular elements to enable the clamps (27) and (31) thereof to transfer a said item (298) therebetween.



21: 2019/00763. 22: 2/6/2019. 43: 5/19/2021
 51: A47K
 71: MORTON, Alan
 72: MORTON, Alan
54: TOILET PAPER DISPENSER
 00: -

A toilet paper dispenser including a housing which defines an internal volume for receiving one or more toilet paper rolls, the housing including a dispensing formation for dispensing toilet paper, and a second formation configured to receive an aromatic item.



21: 2019/00778. 22: 06/02/2019. 43: 4/14/2021
 51: H03M; H04L; H04W

21: 2019/00746. 22: 05/02/2019. 43: 4/14/2021
 51: E04G; B25J; B65G; B60P
 71: FASTBRICK IP PTY LTD
 72: PIVAC, MARK
 33: AU 31: 2016902789 32: 2016-07-15
54: BOOM FOR MATERIAL TRANSPORT
 00: -
 A telescoping extendable boom and a foldable telescoping extendable boom for transporting an item, are disclosed. The foldable telescoping extendable boom having tubular elements (12) and (14) and (15, 17, 18, 19) and (20) each arranged with a longitudinally extending track (25, 29) inside the tubular element. Each longitudinally extending track (25, 29) supports a single shuttle (26) and (30) respectively, internally inside its tubular element (17) and (15), respectively, for movement therealong. Each shuttle (26) and (30) is equipped with a clamp (27) and (30) to selectively clamp the item (298). The longitudinally extending tracks (25, 29) of immediately connecting telescoping tubular

71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED

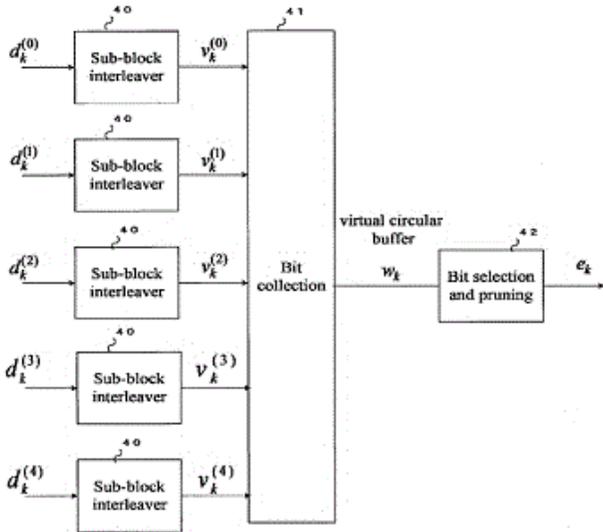
72: YOKOMAKURA, KAZUNARI, YAMADA, SHOHEI, TSUBOI, HIDEKAZU, TAKAHASHI, HIROKI, AIBA, TATSUSHI

33: JP 31: 2016-135742 32: 2016-07-08

54: BASE STATION APPARATUS, TERMINAL APPARATUS, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT

00: -

Channel encoding is provided that includes applying turbo coding with a coding rate of 1/5 to an input bit sequence, applying a subblock interleaver to each of first to fifth code bit sequences to which the turbo coding is applied, applying bit collection to the first to fifth code bit sequences output from the subblock interleaver, the bit collection outputting the first code bit sequence in order, outputting the second code bit sequence and the fourth code bit sequence alternately on a bit-by-bit basis after the first code bit sequence, and outputting the second code bit sequence and the fifth code bit sequence alternately on a bit-by-bit basis.



21: 2019/00787. 22: 2/7/2019. 43: 4/6/2021

51: A47K

71: AFRILLOO (PROPRIETARY) LIMITED

72: FOURIE, Lukas Pieter

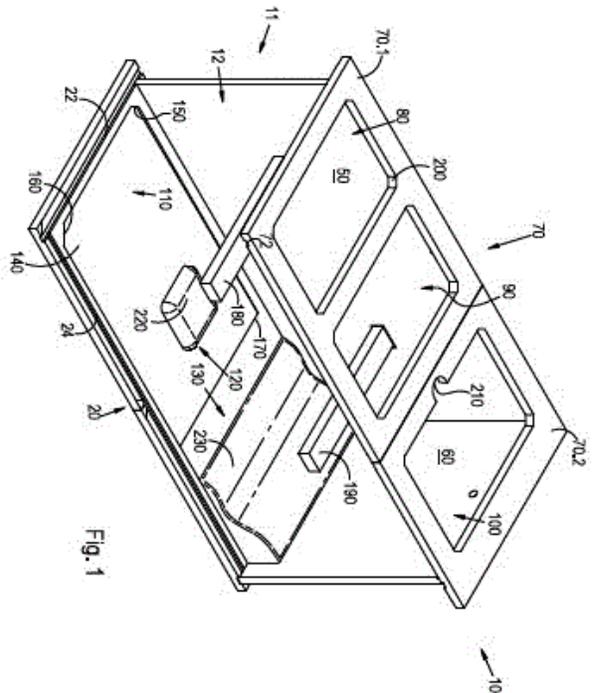
33: ZA 31: 2017/07514 32: 2017-11-07

54: Pit Latrine

00: -

The invention relates to a pit latrine 10 which has a body 11 including a base 20, a top 70 and a side-wall extending therebetween. The base includes a

landing area 120 located below and in register with a central hole 90. The landing area 120 has an elevation which is above at least part of the surrounding base such that solid waste deposited on the landing area is retained thereon and separated from liquid which is deposited on the landing area. This facilitates drying of the solid waste thereby reducing the frequency with which it must be removed from the body 11 and reducing the pathogens associated therewith.



21: 2019/00859. 22: 2/11/2019. 43: 4/6/2021

51: G01S; G08B; H04W

71: MONTONG, Thapelo Carl

72: MONTONG, Thapelo Carl

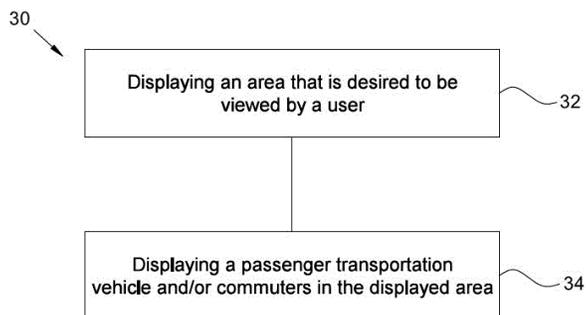
33: ZA 31: 2017/07586 32: 2017-11-09

54: METHOD OF ESTABLISHING THE PRESENCE OF TAXIS AND/OR COMMUTERS IN AN AREA AND SYSTEM THEREFOR

00: -

The invention relates to a method of establishing the presence of passenger vehicles and/or commuters in an area, the method comprising displaying, on a visual display unit of a user device, by means of at least one processor, an area desired to be viewed by the user; and displaying, by means of the at least one processor, a passenger/commuter vehicle and/or commuters in the displayed area. The invention extends to a related system and non-

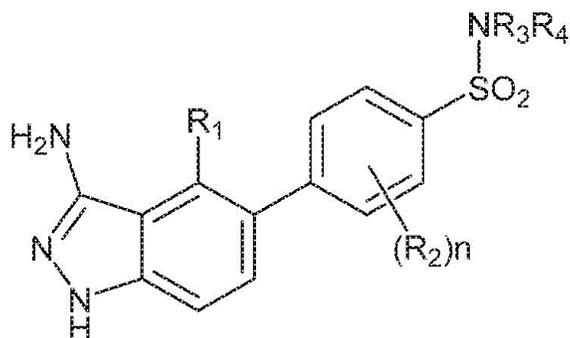
transitory computer readable medium for performing the method in accordance with the invention.



21: 2019/00860. 22: 11/02/2019. 43: 4/14/2021
 51: A61K; C07D; A61P
 71: NOVARTIS AG
 72: FISCH, Andreas, MACHAUER, Rainer, RAMAZANI, Farshad, REMOND, AnneCatherine, ULLRICH, Thomas, USSELMANN, Peggy, VANGREVELINGHE, Eric, BURSULAYA, Badry, LAJINESS, James, Paul, MALEKAR, Swapnil, PETRASSI, Hank, Michael, James

54: INDAZOLE COMPOUNDS FOR USE IN TENDON AND/OR LIGAMENT INJURIES

00: -
 The present invention provides a compound of formula (I) in free form or in pharmaceutically acceptable salt form (I) a method for manufacturing the compounds of the invention, and its therapeutic uses. The present invention further provides a combination of pharmacologically active agents and a pharmaceutical composition.



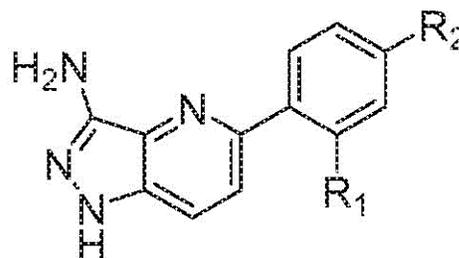
(I)

21: 2019/00861. 22: 11/02/2019. 43: 4/14/2021
 51: A61K; C07D; A61P
 71: NOVARTIS AG

72: FISCH, Andreas, MACHAUER, Rainer, RAMAZANI, Farshad, REMOND, AnneCatherine, ULLRICH, Thomas, USSELMANN, Peggy, VANGREVELINGHE, Eric, BURSULAYA, Badry, LAJINESS, James, Paul, MALEKAR, Swapnil, PETRASSI, Hank, Michael, James

54: AZA-INDAZOLE COMPOUNDS FOR USE IN TENDON AND/OR LIGAMENT INJURIES

00: -
 The present invention provides a compound of formula (I) in free form or in pharmaceutically acceptable salt form, a method for manufacturing the compounds of the invention, and its therapeutic uses. The present invention further provides a combination of pharmacologically active agents and a pharmaceutical composition.

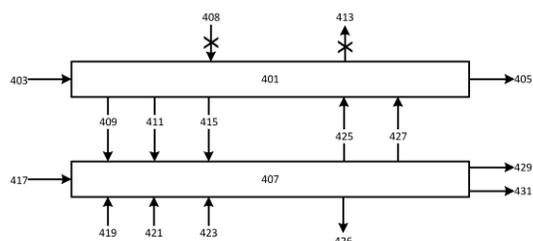


(I)

21: 2019/00896. 22: 2/12/2019. 43: 4/6/2021
 51: C12P; C13K
 71: RISE Innventia AB
 72: ROBERTSSON, Victor, BERGLIN, Niklas, JANSSON, Mikael
 33: EP(SE) 31: 16188531.4 32: 2016-09-13
54: PROCESS FOR THE PRODUCTION OF AN ORGANIC ACID FROM A LIGNOCELLULOSIC FEEDSTOCK

00: -
 The present invention relates to a process for the production of an organic acid from a lignocellulosic feedstock. The process is integrated with a pulp mill and comprises the steps: a) providing a lignocellulosic feedstock; b) obtaining an alkaline liquor from the pulp mill; c) pre-treating the lignocellulosic feedstock with the alkaline liquor, thereby obtaining a pretreated cellulosic feed and a black liquor; d) obtaining calcium oxide from the pulp mill; e) subjecting the pretreated cellulosic feed from step c) to enzymatic hydrolysis, thereby obtaining a saccharide feed; f) subjecting the saccharide feed

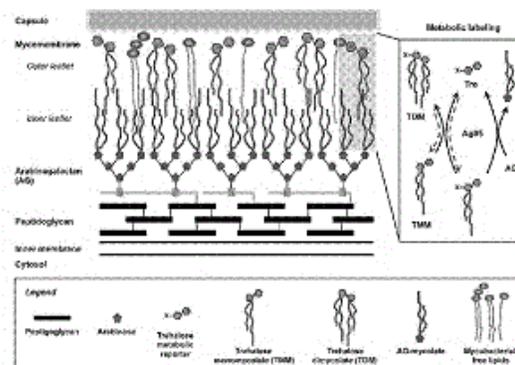
from step e) to microbial fermentation using the calcium oxide from step d) as a neutralising agent, thereby obtaining an organic acid calcium salt; g) treating the organic acid calcium salt with sulfuric acid, thereby obtaining gypsum and the organic acid; h) optionally isolating lignin from the black liquor obtained in step c), thereby obtaining lignin and weak black liquor; and i) returning the black liquor obtained in step c) and/or the weak black liquor obtained in step h) to the pulp mill for integration with the pulp mill chemical recovery process; wherein steps e) and f) are performed either sequentially or simultaneously.



21: 2019/00909. 22: 12/02/2019. 43: 4/9/2021
 51: C12Q
 71: THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY
 72: BERTOZZI, CAROLYN R, KAMARIZA, MIREILLE, SHIEH, PEYTON
 33: US 31: 62/368,928 32: 2016-07-29
54: METHODS FOR DETECTING MYCOBACTERIA WITH SOLVATOCHROMIC DYE CONJUGATES

00: -
 A series of carbohydrate-dye conjugates, as well as a method for detection of pathogenic or other organisms (e.g., bacteria) using the same are provided. The carbohydrate-dye conjugate can be enzymatically incorporated into live and active (viable) bacteria of interest for facile detection of said bacteria. The conjugate incorporation is achieved by utilizing one or more of the enzymes that are endogenous to the bacteria of interest, which can incorporate the conjugate via the conjugate's carbohydrate. A detectable signal is produced by the conjugate's dye only upon incorporation into the bacteria of interest, due to the changes in the dye's local environment upon incorporation. The conjugate may be metabolically incorporated into the fatty outer membrane of a bacterial cell wall, which

provides a distinctly hydrophobic environment for the conjugate's dye, causing it to produce a detectable signal.



21: 2019/00920. 22: 13/02/2019. 43: 4/14/2021
 51: C12N
 71: IONIS PHARMACEUTICALS, INC.
 72: KORDASIEWICZ, Holly
 33: US 31: 62/401,723 32: 2016-09-29
 33: US 31: 62/450,469 32: 2017-01-25
54: COMPOUNDS AND METHODS FOR REDUCING TAU EXPRESSION

00: -
 Provided are compounds, methods, and pharmaceutical compositions for reducing the amount or activity of Tau mRNA in a cell or animal, and in certain instances reducing the amount of Tau protein in a cell or animal. Such compounds, methods, and pharmaceutical compositions are useful to ameliorate at least one symptom of a neurodegenerative disease. Such symptoms include loss of memory, loss of motor function, and increase in the number and/or volume of neurofibrillary inclusions. Such neurodegenerative diseases include tauopathies, Alzheimer's Disease, Frontotemporal Dementia (FTD), FTDP-17, Progressive Supranuclear Palsy (PSP), Chronic Traumatic Encephalopathy (CTE), Corticobasal Ganglionic Degeneration (CBD), Epilepsy, and Dravet's Syndrome.

21: 2019/00923. 22: 2/13/2019. 43: 4/14/2021
 51: C07D
 71: BASF SE
 72: TELES, Joaquim, Henrique, KRAMP, Marvin, MUELLER, Christian, WOERZ, Nicolai, Tonio, METZEN, Bernd, KELLER, Tobias, RIEDEL,

Dominic, WEBER, Markus, URBANCZYK, Daniel, PARVULESCU, Andrei-Nicolae, WEGERLE, Ulrike, MUELLER, Ulrich

33: EP 31: 16180317.6 32: 2016-07-20

54: A PROCESS FOR PURIFYING PROPYLENE OXIDE

00: -

The present invention is related to a process for purifying propylene oxide, comprising (i) providing a stream S0 comprising propylene oxide, acetonitrile, water, and an organic compound comprising a carbonyl group -C(=O)-, wherein said organic compound comprising a carbonyl group -C(=O)- comprises one or more of acetone and propionaldehyde; (ii) separating propylene oxide from the stream S0 by distillation, comprising subjecting the stream S0 to distillation conditions in a distillation column, obtaining a gaseous top stream S1c which is enriched in propylene oxide compared to the stream S0, a liquid bottoms stream S1a which is enriched in acetonitrile and water compared to the stream S0, and a side stream S1b comprising propylene oxide which is enriched in the carbonyl compound compared to the stream S0; wherein the distillation column is operated at an absolute pressure at the top of the distillation column in the range of from 0.1 to 2.0 bar and an internal reflux ratio in the range of from 2.0 to 6.0; wherein the distillation column exhibits at least 100 theoretical trays, the rectifying section of the distillation column consists of from 30 to 70 % of the theoretical trays and the stripping section of the distillation column consists of from 70 to 30 % of the theoretical trays.

21: 2019/00941. 22: 13/02/2019. 43: 4/9/2021

51: A61K; C07K

71: THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY

72: ERTL, HILDEGUND C.J, ZHOU, XIANG YANG

33: US 31: 62/369,288 32: 2016-08-01

54: COMPOSITIONS AND METHODS OF REPLICATION DEFICIENT ADENOVIRAL VECTORS FOR VACCINE APPLICATIONS

00: -

The invention includes compositions and methods of generating a chimpanzee-derived adenovirus AdC6 or AdC7 vector vaccine comprising a deletion of E1, a deletion of E3 ORF3, ORF4, ORF5, ORF6, and ORF7 and a sequence encoding HIV protein gp140, gp160 or Gag, methods of treating and/or preventing

or immunizing against HIV and methods of inducing an effector T cell, memory T cell and B cell immune response in a mammal administered the composition produced thereby. Furthermore, the invention encompasses a pharmaceutical composition for vaccinating a mammal as well as a protein expression system.

21: 2019/00945. 22: 14/02/2019. 43: 4/14/2021

51: C12N; G01N

71: GENZYME CORPORATION

72: JIN, Xiaoying, O'RIORDAN, Catherine, R., LIU, Lin, ZHANG, Kate

33: US 31: 62/375,314 32: 2016-08-15

54: METHODS FOR DETECTING AAV

00: -

Provided herein are methods for determining the serotype of a virus particle and/or or determining the heterogeneity of a virus particle (e.g., an AAV particle). In other embodiments, the invention provides methods to determine the heterogeneity of AAV particles. In some aspects, the invention provides viral particles (e.g., rAAV particles) with improved stability and/or improved transduction efficiency by increasing the acetylation and/or deamidation of capsid proteins.

21: 2019/00949. 22: 2/14/2019. 43: 4/14/2021

51: C07D B01D B01J

71: BASF SE, DOW GLOBAL TECHNOLOGIES LLC

72: TELES, Joaquim, Henrique, KRAMP, Marvin,

MUELLER, Christian, WOERZ, Nicolai, Tonio,

METZEN, Bernd, KELLER, Tobias, RIEDEL,

Dominic, SCHELLING, Heiner, WEBER, Markus,

URBANCZYK, Daniel, PARVULESCU, Andrei-

Nicolae, WEGERLE, Ulrike, MUELLER, Ulrich,

WEIDENBACH, Meinolf, WITZL, Werner, LUECKE,

Karsten

33: EP 31: 16180293.9 32: 2016-07-20

54: A PROCESS FOR PREPARING PROPYLENE OXIDE

00: -

The present invention is related to a process for preparing propylene oxide, comprising (i) providing a stream comprising propene, hydrogen peroxide or a source of hydrogen peroxide, water, and an organic solvent; (ii) passing the liquid feed stream provided in (i) into an epoxidation zone comprising an epoxidation catalyst comprising a titanium zeolite, and subjecting the liquid feed stream to epoxidation

reaction conditions in the epoxidation zone, obtaining a reaction mixture comprising propene, propylene oxide, water, and the organic solvent; (iii) removing an effluent stream from the epoxidation zone, the effluent stream comprising propylene oxide, water, organic solvent, and propene; (iv) separating propene from the effluent stream by distillation, comprising (iv.1) subjecting the effluent stream to distillation conditions in a distillation unit, obtaining a gaseous top stream S0 enriched in propene compared to the effluent stream subjected to distillation conditions, and a liquid bottoms stream S01 enriched in propylene oxide, water and organic solvent compared to the effluent stream subjected to distillation conditions; (iv.2) returning a condensed portion of the stream S0 to an upper part of the distillation unit.

21: 2019/00968. 22: 14/02/2019. 43: 4/14/2021
51: H04L; H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: SORRENTINO, STEFANO, BLASCO SERRANO, RICARDO, DO, HIEU

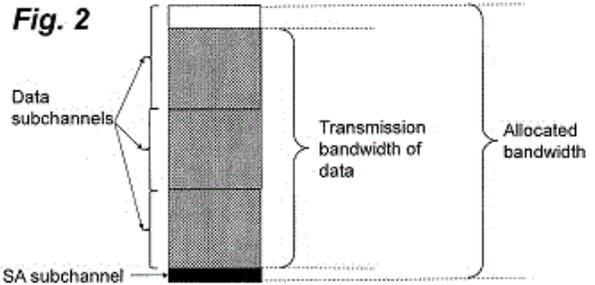
33: US 31: 62/379,041 32: 2016-08-24

54: METHODS FOR EFFICIENT SIGNALING IN V2X COMMUNICATIONS

00: -

Various operations that can be performed by a transmitting UE to schedule radio frequency resources for use in a data transmission are presented. The transmitting UE determines the transmission bandwidth, subject to certain restrictions, such as allowed DFT sizes for the UE for a data transmission. The determination may be performed through autonomous resource selection operations and/or may be performed using information received through signaling received from the network node as part of a scheduling grant. The UE further determines the ALLOCATED BANDWIDTH. The ALLOCATED BANDWIDTH can be determined based on the TRANSMISSION BANDWIDTH, which has been determined, using a defined rule. Furthermore, the UE generates and transmits toward a receiving UE a scheduling assignment (SA) that indicates the number or the set of subchannels that are within, and conform to, the ALLOCATED BANDWIDTH which was determined. The UE can then perform the data transmission

using the SA indicated number or set of subchannels. Corresponding operations and methods are presented for a receiving UE.



21: 2019/00977. 22: 2/15/2019. 43: 4/6/2021
51: B01D

71: INLINE FILTRATION SYSTEMS (PTY) LTD

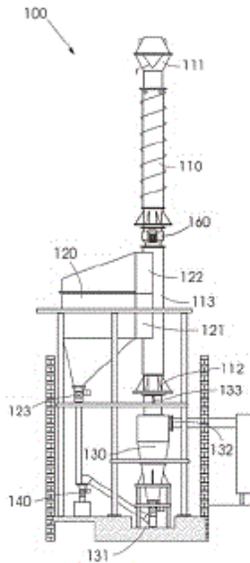
72: HOAD, JAMES HAYDN

33: ZA 31: 2017/08135 32: 2017-11-30

54: FILTRATION SYSTEM

00: -

THIS invention relates to a filtration system, and more particularly but not exclusively to a filtration system suitable for use in the filtration of flue gas emanating from a boiler. The filtration system includes a bag filter having an inlet and an outlet, and a stack having an operatively lower section, and an operatively upper section. The system is characterized in that an inlet of the bag filter is in flow communication with the operatively lower section of the stack, and in that the outlet of the bag filter is in flow communication with the operatively upper section of the stack, in order for the bag filter to be integrated with the stack.

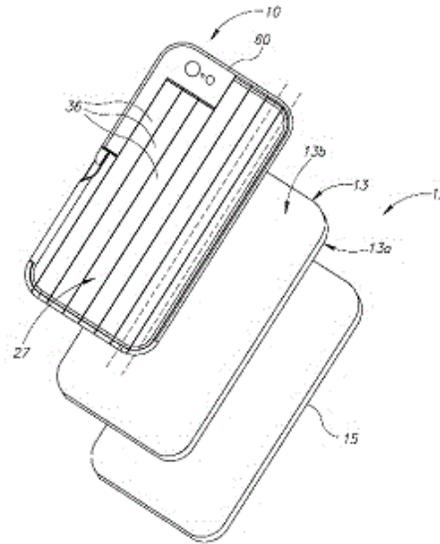


21: 2019/00995. 22: 15/02/2019. 43: 4/14/2021
51: H04M

71: STIKBOX TECHNOLOGIES LIMITED
72: SHERMAN, DAVID, SHERMAN, YEKUTIEL
33: US 31: 62/371,769 32: 2016-08-07

54: MOBILE PHONE AND BACK PANEL THEREFOR, TRANSFORMABLE INTO RETRACTABLE SELFIE STICK

00: -
A back panel for a mobile phone having an operating system supported on an infrastructure having a front and a rear, and a front panel overlying the front of the infrastructure, wherein the back overlies the rear of the infrastructure, and has a chassis for securing to the rear of the infrastructure, and a transformable main member having a plurality of interlocking elongate, prismatic elements selectably locked in a side by side, coplanar formation thereby to extend across the rear of the infrastructure, the transformable main member being adapted for transformation into a selfie stick by extension of the plurality of interlocking elongate, prismatic elements in a direction transverse to the chassis and to the infrastructure, a first end of the selfie stick being supportively connected to the chassis and a second distal end being a free end, adapted to be held in the hand of a user thereby to facilitate support and operation of the mobile phone by the user.



21: 2019/01016. 22: 18/02/2019. 43: 4/6/2021
51: A61K; C12N

71: PROQR THERAPEUTICS II B.V.
72: TURUNEN, Janne Juha, AALTO, Antti, KLEIN, Bart, VAN SINT FIET, Lenka, BOUDET, Julien, Auguste, Germain

33: GB 31: 1614858.7 32: 2016-09-01
33: GB 31: 1616374.3 32: 2016-09-27
33: GB 31: 1621467.8 32: 2016-12-16
33: GB 31: 1703034.7 32: 2017-02-24
33: GB 31: 1707508.6 32: 2017-05-10

54: CHEMICALLY MODIFIED SINGLE-STRANDED RNA-EDITING OLIGONUCLEOTIDES

00: -
The invention relates to antisense oligonucleotides that are capable of bringing about specific editing of a target nucleotide (adenosine) in a target RNA sequence in a eukaryotic cell, wherein said oligonucleotide does not, in itself, form an intramolecular hairpin or stem-loop structure, and wherein said oligonucleotide comprises a non-complementary nucleotide in a position opposite to the nucleotide to be edited in the target RNA sequence.

21: 2019/01034. 22: 18/02/2019. 43: 4/14/2021
51: A61K; C07D

71: TURNING POINT THERAPEUTICS, INC.
72: CUI, JINGRONG JEAN, LI, YISHAN, ROGERS, EVAN W, ZHAI, DAYONG, UNG, JANE
33: US 31: 62/367,886 32: 2016-07-28

54: MACROCYCLE KINASE INHIBITORS

00: -

The present disclosure relates to certain macrocyclic kinase inhibitors, pharmaceutical compositions containing the same, and methods of using the same to treat disease.

21: 2019/01061. 22: 19/02/2019. 43: 4/6/2021
51: C07H

71: ATEA PHARMACEUTICALS, INC.

72: SOMMADOSSI, JEAN-PIERRE, MOUSSA, ADEL

33: US 31: 62/384,664 32: 2016-09-07

54: 2'-SUBSTITUTED-N6-SUBSTITUTED PURINE NUCLEOTIDES FOR RNA VIRUS TREATMENT

00: -

The use of described compounds or pharmaceutically acceptable salts or compositions thereof for the treatment of a host infected with an RNA virus other than HCV, or other disorder more fully described herein.

21: 2019/01070. 22: 2/19/2019. 43: 4/9/2021
51: A61K; A61P; C07D

71: Chugai Seiyaku Kabushiki Kaisha

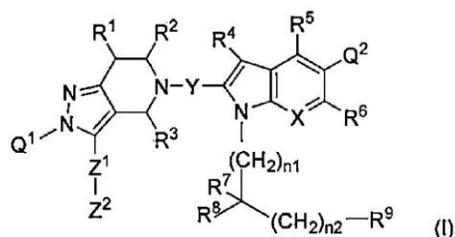
72: YOSHINO, Hitoshi, TSUCHIYA, Satoshi, MATSUO, Atsushi, SATO, Tsutomu, NISHIMOTO, Masahiro, OGURI, Kyoko, OGAWA, Hiroko, NISHIMURA, Yoshikazu, FURUTA, Yoshiyuki, KASHIWAGI, Hirotaka, HORI, Nobuyuki, KAMON, Takuma, SHIRAIISHI, Takuya, YOSHIDA, Shoshin, KAWAI, Takahiro, TANIDA, Satoshi, AOKI, Masahide

33: JP 31: 2016-187605 32: 2016-09-26

54: PYRAZOLOPYRIDINE DERIVATIVE HAVING GLP-1 RECEPTOR AGONIST EFFECT

00: -

The present invention provides a compound represented by formula (I) in which an indole ring or a pyrrolo[2,3-b]pyridine ring and a pyrazolopyridine skeleton are bonded using a substituent, or a salt of the compound; solvates thereof; and prophylactic or therapeutic agents for non-insulin-dependent diabetes mellitus (type 2 diabetes mellitus), obesity, and the like in which said compound, salt, or solvate is used as an active ingredient. (In the formula, X, Y, Q¹, Q², R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, n1, n2, Z¹, and Z² represent substances indicated in the present specification.)



21: 2019/01084. 22: 20/02/2019. 43: 4/6/2021
51: B04C

71: SUPERIOR INDUSTRIES, INC.

72: GRIMM, Lefe, HANSON, Shane, ILOTT, Paul

33: US 31: 62/365,214 32: 2016-07-21

33: US 31: 29/591,837 32: 2017-01-24

33: US 31: 29/591,840 32: 2017-01-24

33: US 31: 62/465,132 32: 2017-02-28

54: CLASSIFYING APPARATUS, SYSTEMS AND METHODS

00: -

Hydrocyclones and related apparatus, systems and methods are disclosed for classifying aggregate material. Some embodiments include an inlet head with a spiral inlet having a height and width that vary along the direction of travel of material in the inlet head. Plants incorporating hydrocyclones are disclosed for classifying aggregate material. Some plant embodiments include an overflow container having a weir.

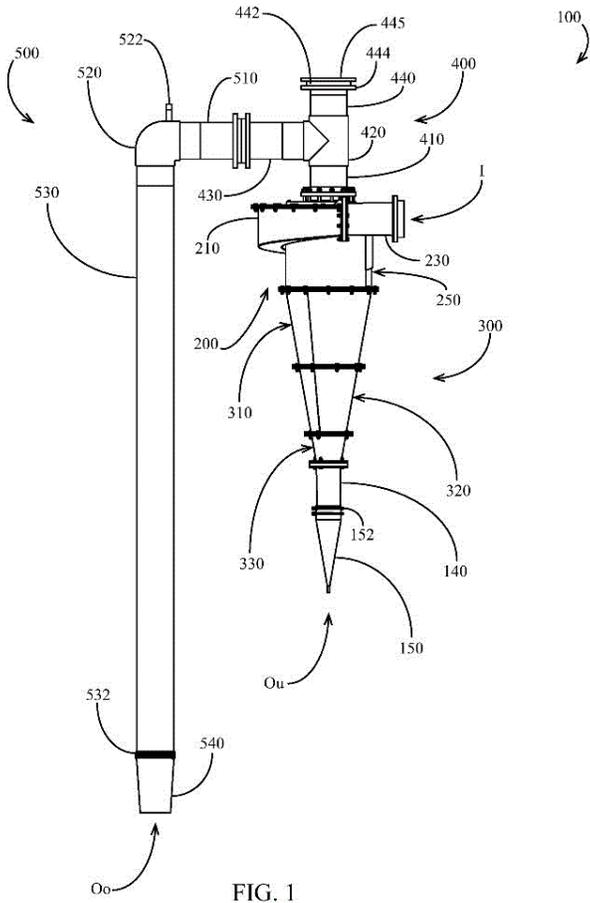
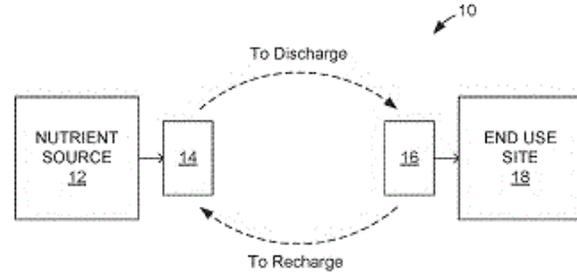


FIG. 1

and through the outlet so as to transfer the nutrients to the water to generate a dilute nutrient solution suitable for use as a fertilizer.



21: 2019/01131. 22: 2/22/2019. 43: 5/24/2021

51: G06F

71: CHANNEL TECHNOLOGIES FZE

72: LELIS, STELIOS, CHATZISTAMATIOU, ANTONIOS

54: LARGE-SCALE PROCESSING OF DATA RECORDS WITH EFFICIENT RETRIEVAL

00: -

A method and system are provided for large-scale processing of data records. The method includes: processing large-scale raw data records having no well-defined format and including a first type of data records having static values and a second type of data records relating to transactional records with timestamps of events. The method includes: filtering and transforming the data records to standardized formats and persisting the transformed data records into two different data stores that support a large amount of records, a first data store for static data relating to entities for efficient retrieval based on static values including a unique identifier of an entity, and a second data store for transactional data for efficient retrieval based on timestamps of events. The method further includes: grouping different categories of transactional records according to the unique identifiers of entities and persisting the categories to different tables including maintaining a table of stable size for efficient access of a category of transactional records that is most frequently accessed. The persisted data is used for retrieving features relating to an entity from multiple tables for processing to provide an output relating to the entity. The processed data may be utilised for credit scoring of an entity.

21: 2019/01098. 22: 20/02/2019. 43: 4/13/2021

51: A23N

71: UNIVERSITY OF SOUTH FLORIDA

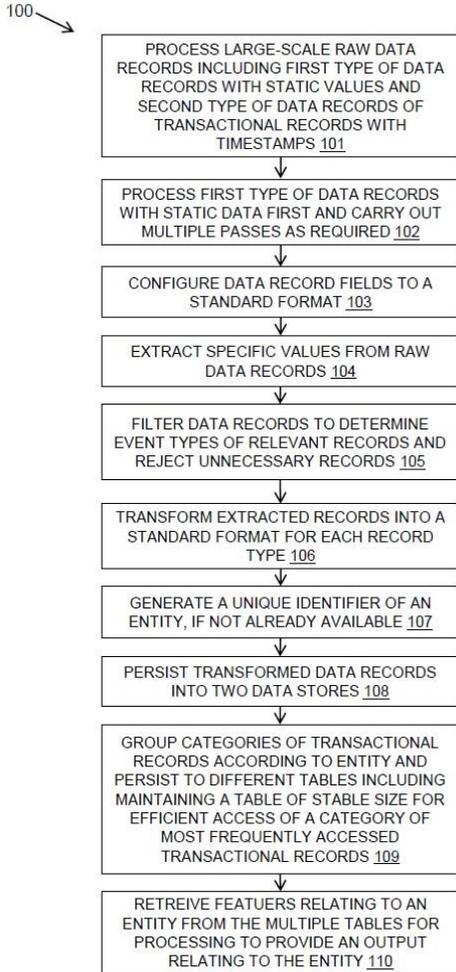
72: YEH, DANIEL H, CALABRIA, JORGE LUIS, OZCAN, ONUR Y, BAIR, ROBERT A

33: US 31: 62/365,729 32: 2016-07-22

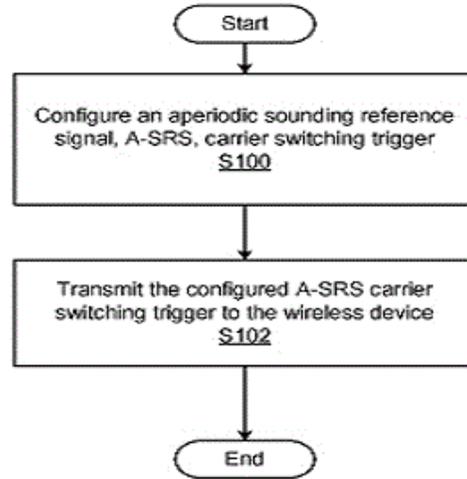
54: SYSTEMS AND METHODS FOR NUTRIENT RECOVERY AND USE

00: -

In one embodiment, a system includes at least one reusable nutrient cartridge including an outer housing having an inlet and an outlet, and nutrient-adsorbing material contained within the housing, the material being configured to adsorb nutrients, wherein the cartridge is configured to be charged with nutrients by flowing a nutrient stream through the inlet, through the nutrient-adsorbing material, and through the outlet to enable the nutrient-adsorbing material to adsorb the nutrients, wherein the cartridge is also configured to be later discharged of the nutrients by flowing water through the inlet, through the nutrient-adsorbing material,



the other predetermined DCI format for group switching is 1A. 10

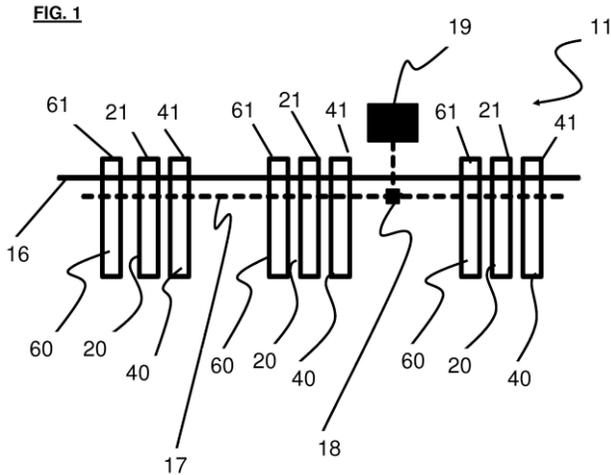


21: 2019/01150. 22: 22/02/2019. 43: 4/6/2021
 51: H04L; H04W
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: MUNIER, FLORENT, HARRISON, ROBERT MARK
 33: US 31: 62/403,013 32: 2016-09-30
54: CONTROL OF APERIODIC SIGNALLING OF SRS FOR WIRELESS SYSTEMS
 00: -
 42 ABSTRACT A wireless device, network node and methods are provided. The network node includes processing circuitry configured to configure an aperiodic sounding reference signal, A-SRS, switching trigger, and transmit the configured A-SRS 5 switching trigger to a wireless device. The A-SRS switching trigger is one of: a downlink control information, DCI, of a predetermined DCI format and a DCI of another predetermined DCI format for group switching. In one embodiment, the predetermined DCI format is one of 2, 2A and 3, and

21: 2019/01174. 22: 25/02/2019. 43: 4/9/2021
 51: H01F; H01H
 71: MASCHINENFABRIK REINHAUSEN GMBH
 72: STOCKER, Andreas, HÖRL, Marco, HAMMER, Christian
 33: DE 31: 10 2016 117 526.9 32: 2016-09-16
54: ON-LOAD TAP CHANGER, REGULATING TRANSFORMER WITH ON-LOAD TAP CHANGER, AND METHOD FOR CONNECTING AN ON-LOAD TAP CHANGER
 00: -

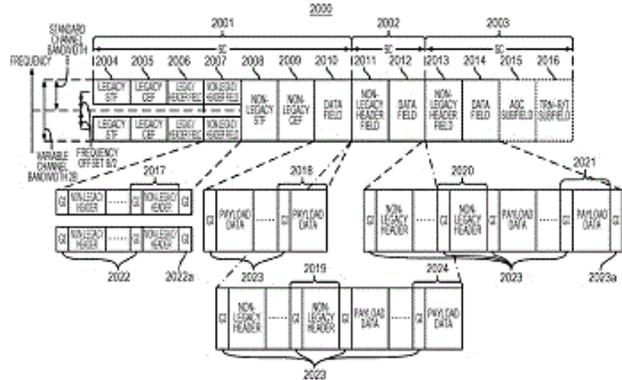
The invention relates to a method for switching an on-load tap changer (11) comprising a tap selector (20), which comprises: a plurality of selector fixed contacts comprising a commutation contact (200) which can be connected to an original winding (12) of a regulating transformer (10), and a plurality of stage contacts (201...208) that can be respectively connected to an associated tap of a regulating winding (13) of the regulating transformer; a first selector arm (26) which can optionally contact each selector fixed contact; a second selector arm (36) which can optionally contact each selector fixed contact; a preselector (40) which switches from a first position to a second position and vice versa and can be connected to the regulating winding and the original winding, comprising a first preselector fixed contact (401), a second preselector fixed contact (402), and a third preselector fixed contact, which is connected to the first preselector fixed contact in the first position and to the second preselector fixed contact in the second position; a diverter switch (60)

which can be switched from a first position into a second position and vice versa, comprising a first connection (601) which is connected to the first selector arm (26), and a second connection (602) which is connected to the second selector arm (36); and a discharge line (603) which is connected to the first terminal connection in the first position and to the second terminal connection in the second position; where when the preselector is switched, the selector arms are adjusted in such a way that one of the selector arms contacts the commutation contact and the other selector arm does not contact any of the stage contacts, and a switching of the diverter switch begins before the switching of the preselector is completed.



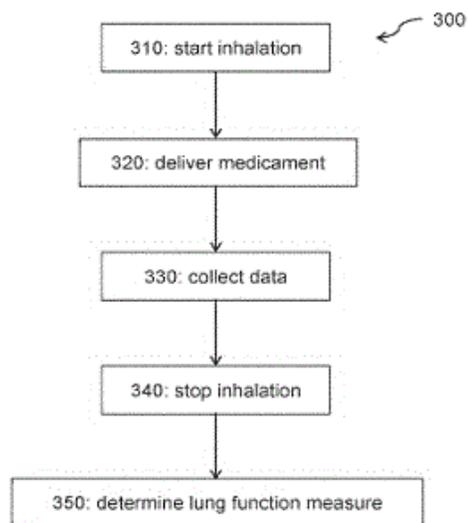
21: 2019/01186. 22: 25/02/2019. 43: 4/9/2021
 51: H04L
 71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
 72: SAKAMOTO, TAKENORI, MOTOZUKA, HIROYUKI, IRIE, MASATAKA
 33: JP 31: 2016-171216 32: 2016-09-01
54: TRANSMISSION DEVICE AND TRANSMISSION METHOD
 00: -
 A transmission device in which a reproduction unit reproduces, among first physical layer convergence protocol data units (PPDU), (N-1)(N is an integer of 2 or more) first PPDU that are transmitted with a standard channel bandwidth, in a frequency axis direction. A GI insertion unit adds a guard interval to each of the first PPDU transmitted with the standard

channel bandwidth, the reproduced first PPDU transmitted with the standard channel bandwidth, the first PPDU among the first PPDU that is transmitted with a variable channel bandwidth which is N times the standard channel bandwidth, and a second PPDU transmitted with the variable channel bandwidth, and outputs an aggregate physical layer convergence protocol data unit (A-PPDU). An RF frontend transmits the A-PPDU.



21: 2019/01209. 22: 26/02/2019. 43: 4/6/2021
 51: A61M
 71: NORTON (WATERFORD) LIMITED
 72: MILTON-EDWARDS, MARK, CHRYSSTYN, HENRY, MORRISON, MARK S, WEITZEL, DOUGLAS E
 33: US 31: 62/087,567 32: 2014-12-04
 33: US 31: 62/087,571 32: 2014-12-04
 33: US 31: 14/802,675 32: 2015-07-17
54: INHALATION MONITORING SYSTEM AND METHOD

00: -
 An apparatus which includes a processor configured to receive at least one pressure measurement indicative of an inhalation of a user; determine an inspiratory measure based on the at least one pressure measurement; determine an expiratory measure based on the inspiratory measure, wherein the expiratory measure provides an indication of a lung function of the user; and send, via a transmitter, the expiratory measure providing the indication of the lung function of the user.

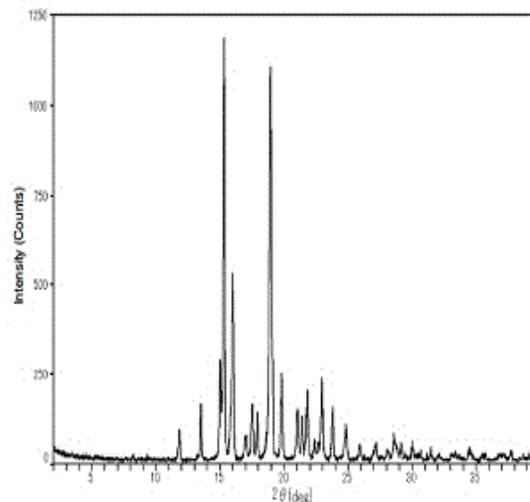


21: 2019/01224. 22: 26/02/2019. 43: 4/6/2021
 51: B01D; B01J; F01N
 71: BASF CORPORATION
 72: CRAVILLON, JANOSCH, SIEMUND, STEPHAN,
 SIANI, ATTILIO, SCHMITZ, THOMAS, KINNE,
 MARKUS
 33: EP 31: 16182969.2 32: 2016-08-05
**54: MONOMETALLIC RHODIUM-CONTAINING
 FOUR-WAY CONVERSION CATALYSTS FOR
 GASOLINE ENGINE EMISSIONS TREATMENT
 SYSTEMS**

00: -
 Catalyzed particulate filters comprise three-way conversion (TWC) catalytic material, which comprises rhodium as the only platinum group metal, that permeates walls of a particulate filter. Such catalyzed particulate filters may be located downstream of close-coupled three-way conversion (TWC) composites in an emission treatment system downstream of a gasoline direct injection engine for treatment of an exhaust stream comprising hydrocarbons, carbon monoxide, nitrogen oxides, and particulates.

21: 2019/01263. 22: 27/02/2019. 43: 4/6/2021
 51: C07D; A61K; A61P
 71: TORAY INDUSTRIES, INC.
 72: TAKAHASHI, HIROZUMI, BABA, YOKO,
 MORITA, YASUHIRO, ISEKI, KATSUHIKO,
 IZUMIMOTO, NAOKI
 33: JP 31: 2016-165437 32: 2016-08-26
**54: CRYSTALS OF CYCLIC AMINE DERIVATIVE
 AND PHARMACEUTICAL USE THEREOF**

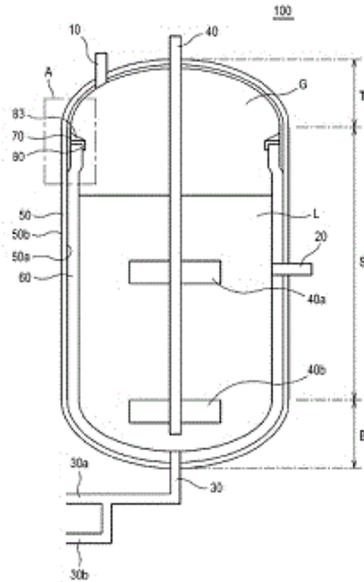
00: -
 The purpose of the present invention is to provide crystals of a compound that exhibits an analgesic action against neuropathic pain and/or fibromyalgia, the crystals being useful as pharmaceuticals. The present invention provides crystals of (S)-1-(4-(dimethylamino)piperidin-1-yl)-3-hydroxy-3-(1-methyl-1H-imidazol-2-yl)propan-1-one or a pharmacologically acceptable salt thereof.



21: 2019/01316. 22: 01/03/2019. 43: 4/6/2021
 51: B01J, B08B
 71: KOREA ZINC CO., LTD.
 72: LEE, JE JOONG
 33: KR 31: 10-2018-0017920 32: 2018-02-13
**54: AUTOCLAVE AND METHOD FOR REMOVING
 SALT FROM AUTOCLAVE**

00: -
 A vertical autoclave according to an embodiment of the present disclosure is a vertical autoclave including an inlet port through which a process solution is introduced, an outlet port configured through which the process solution is discharged, an oxygen inlet port through which oxygen is supplied to the process solution, an agitator configured to mix the process solution, an inner wall, an acid-resistant brick layer lined on a lower portion and a side portion of the inner wall, and an acid-resistant metal layer lined on an upper portion of the inner wall. A method of removing salt from an autoclave includes raising a surface level of a solution in the autoclave from a first level to a second level such that salt in the autoclave is immersed in the solution, and

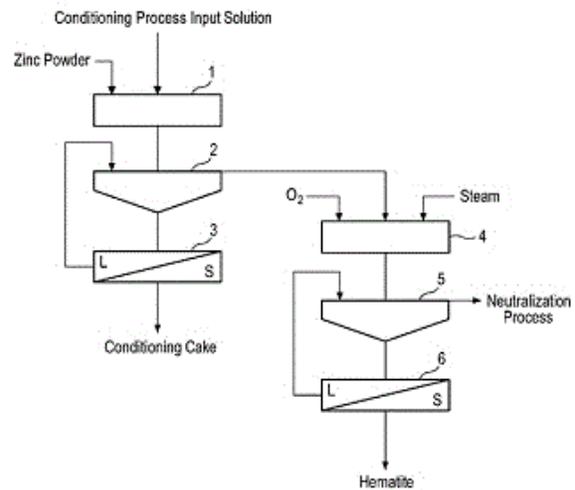
maintaining the surface level of the solution at the second level. The salt is dissolved in the solution while the surface level of the solution is maintained at the second level.



21: 2019/01317. 22: 01/03/2019. 43: 4/6/2021
 51: C01G; C21B
 71: KOREA ZINC CO., LTD.
 72: LEE, JE JOONG
 33: KR 31: 10-2018-0012953 32: 2018-02-01
54: METHOD OF RECOVERING IRON FROM ZINC SULPHATE SOLUTION

00: -
 A method of recovering iron from a zinc sulfate solution according to an embodiment of the present disclosure is associated with recovering iron from a zinc sulfate solution produced by a leaching process in which zinc ore is dissolved in sulfuric acid. The method comprises a conditioning process including a step of reducing a conditioning process input solution, which is the zinc sulfate solution, and an iron precipitation process for recovering iron as hematite, including a step of pressurizing and oxidizing an iron precipitation process input solution discharged from the conditioning process. The iron precipitation process is performed at a temperature ranging from 135 °C to 150 °C and a pressure ranging from 5 barg to 10 barg. In addition, a method of recovering iron from a zinc sulfate solution according to an embodiment of the present disclosure is associated with recovering iron from a zinc sulfate solution produced by a leaching process

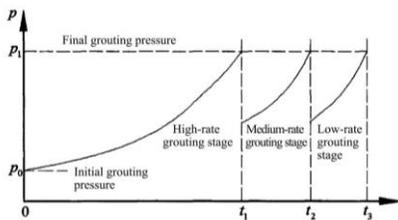
in which zinc ore is dissolved in sulfuric acid. The method comprises a conditioning process including a step of reducing a conditioning process input solution, which is the zinc sulfate solution, and an iron precipitation process for recovering iron as hematite, including a step of pressurizing and oxidizing an iron precipitation process input solution discharged from the conditioning process. The iron precipitation process input solution has oxidation-reduction potential of -100 mV or less when a silver/silver chloride (Ag/AgCl) electrode is used as a reference electrode.



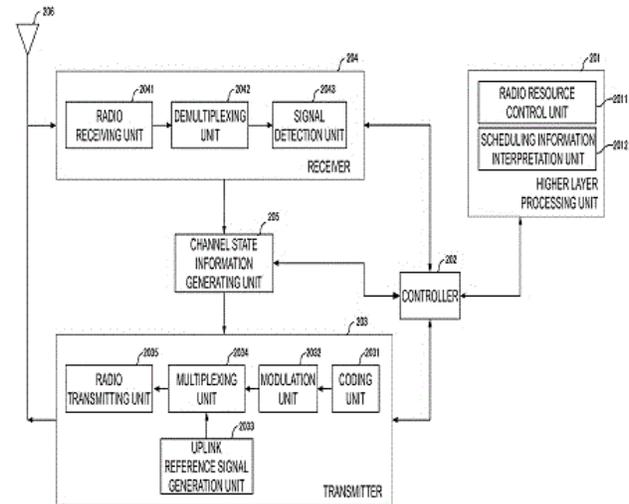
21: 2019/01417. 22: 3/7/2019. 43: 6/8/2021
 51: E21D
 71: TUNNEL ENGINEERING CO., LTD. OF CHINA RAILWAY 18TH BUREAU GROUP CO., LTD.
 72: GAO, JUN, FU, Luoqing, LIN, Xiao, LIU, Qisheng, LIU, Feng, WANG, Yongchun, QING, Peng
54: METHOD OF THREE-DIMENSIONAL GROUTING IN ARGILLACEOUS FAULT ZONES

00: -
 The present invention relates to civil engineering, and discloses a method of three-dimensional grouting in an argillaceous fault zone, including the following steps: 1) vertically pre-burying a plurality of grouting tubes from ground; 2) injecting concrete grouts into the grouting tubes with grouting rate of incremental control, where a high-rate grouting, a middle-rate grouting and a low-rate grouting are included; 3) detecting water pressure during grouting taking grouting holes into consideration and adjusting drill holes to release pressure according to the detected result; 4) stopping grouting when a standard of ending grouting is reached. As

compared to the prior art, the present invention provides an incremental control of the grouting rate according to the special geologic conditions at the argillaceous fault zone. The high-rate grouting is adopted at an early stage of the grouting, and the grouting rate is reduced after reaching a final grouting pressure. Therefore, the grouting state is transformed from compacted filling in the high-rate grouting to an infiltration state in the low-rate grouting, which is conducive to reinforcement to reach the controllable and better grouting.



CSI report includes information indicating whether or not the second PMI includes the first indicator.

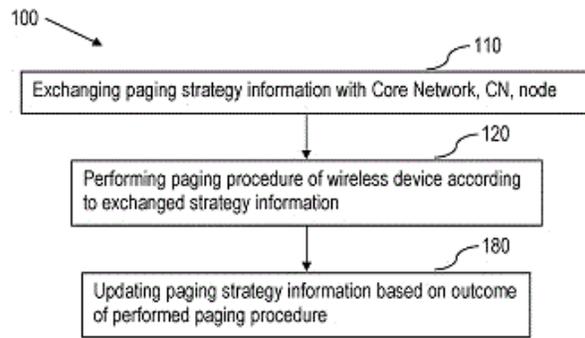
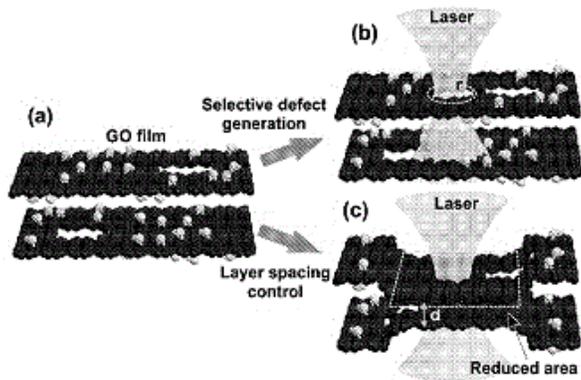


21: 2019/01470. 22: 08/03/2019. 43: 4/6/2021
 51: H04W; H04B; H04L
 71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED
 72: TOMEBA, HIROMICHI, YAMADA, RYOTA
 33: JP 31: 2016-191050 32: 2016-09-29
54: BASE STATION APPARATUS, TERMINAL APPARATUS AND COMMUNICATION METHOD
 00: -

To provide a base station apparatus, a terminal apparatus and a communication method which enable improvements in throughput and communication quality while suppressing an increase in complexity even in a case that the accuracy of a CSI report is improved. A terminal apparatus is provide with: a receiver configured to receive a CSI-RS and configuration information of a CSI report; and a transmitter configured to transmit CSI relating to the CSI-RS, wherein the CSI includes a first PMI and a second PMI, the first PMI is an indicator indicating multiple vectors, the second PMI includes either or both of a first indicator and a second indicator, the first indicator is an indicator indicating one or more complex weights of a first dimension for the multiple vectors, the second indicator is an indicator indicating one or more complex weights of a second dimension for the multiple vectors, and configuration information of the

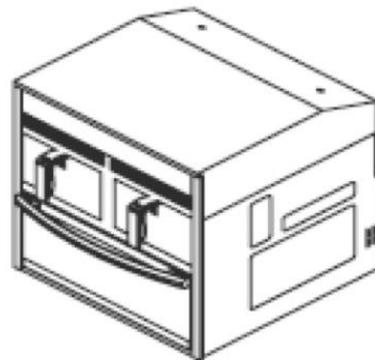
21: 2019/01476. 22: 08/03/2019. 43: 4/6/2021
 51: C01B; B01D
 71: SWINBURNE UNIVERSITY OF TECHNOLOGY
 72: LIN, HAN, JIA, BAOHUA
 33: AU 31: 2016903455 32: 2016-08-30
54: POROUS GRAPHENE-BASED FILMS AND PROCESSES FOR PREPARING THE FILMS
 00: -

The invention relates in general to porous graphene-based films. In particular, the invention relates to a process for the preparation of a porous graphene-based films comprising reduced graphene oxide. The invention also relates to porous graphene-based films prepared by the process and to uses of such porous graphene-based films, in particular, in filtration applications. The invention further relates to porous multi-zone graphene-based films comprising different zones of different porosity.



21: 2019/01490. 22: 11/03/2019. 43: 4/6/2021
 51: C07K
 71: GENENTECH, INC.
 72: DESHMUKH, AJAY, ZEID, JOUMANA, SCHERER, THOMAS M
 33: US 31: 61/553,916 32: 2011-10-31
54: ANTIBODY FORMULATIONS
 00: -
 Formulations comprising an anti-IL-13 antibody are provided, including pharmaceutical formulations and methods of using such formulations.

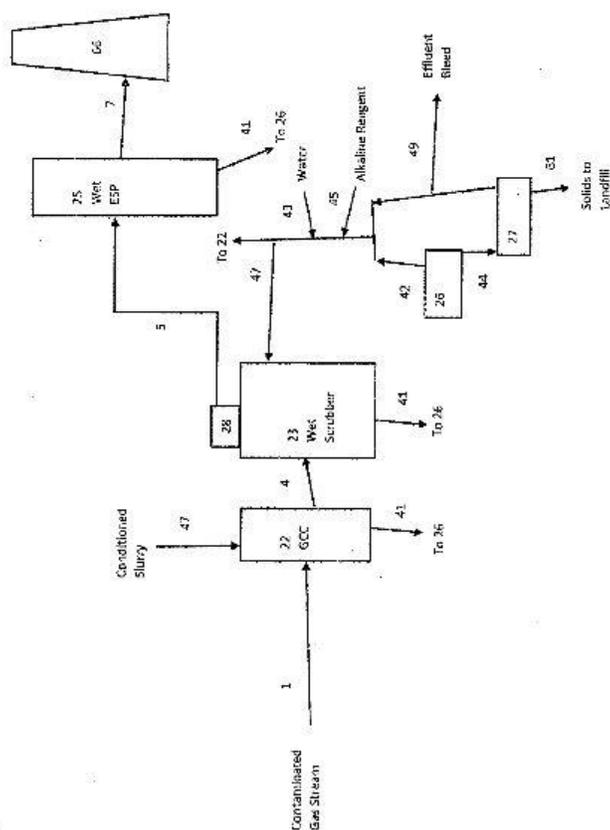
21: 2019/01527. 22: 3/12/2019. 43: 5/24/2021
 51: F24B
 71: GREG OUTRAM
 72: GREG OUTRAM
 33: ZA 31: 2018/01662 32: 2018-03-12
54: OVEN COMBINATION
 00: -
 The invention relates to a combination oven which includes at least one convection oven which is in flow communication with at least one air fryer system.



21: 2019/01502. 22: 11/03/2019. 43: 4/6/2021
 51: H04W
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: ZEE, OSCAR, CENTONZA, ANGELO, SCHLIWA-BERTLING, PAUL, VESELY, ALEXANDER, OLSSON, LARS-BERTIL
 33: US 31: 62/376,954 32: 2016-08-19
54: RADIO ACCESS NETWORK NODE AND A CORE NETWORK NODE FOR PAGING A WIRELESS DEVICE IN A WIRELESS COMMUNICATION NETWORK
 00: -
 A Radio Access Network, RAN, node, a Core Network, CN, node and respective methods performed thereby are provided for paging a wireless device in a wireless communication network. The method performed by the RAN node comprises exchanging (110) paging strategy information with a Core Network, CN, node, performing (120) a RAN paging procedure of the wireless device according to the exchanged paging strategy information; and updating (180) the paging strategy information based on the outcome of the performed paging procedure.

21: 2019/01559. 22: 13/03/2019. 43: 5/6/2021
 51: B01D; B03C
 71: PACIFIC GREEN TECHNOLOGIES INC.
 72: McCLELLAND, Kenneth James
 33: US 31: 62/376,619 32: 2016-08-18
54: INTEGRATED WET SCRUBBING SYSTEM
 00: -
 The present invention relates to an advanced system for the removal of air pollutants from combustion and non-combustion processes that generate air pollutants that are regulated by environmental agencies. The pollutants include, but are not limited to, particulate matter; acid gases including sulphur dioxide, hydrogen chloride and

hydrogen fluoride; metals such as mercury, dioxins, VOCs and reagents such as ammonia. The system collects and processes the polluted gas stream through two forms of wet method scrubbing technology. The gas is first passed through a wet scrubbing reactor capable of complete interaction between the gas and the selected liquid scrubbing reagent at one or more interfaces. The scrubbing medium is selected for its reactivity with the pollutants targeted in the process, its cost and impact on the environment. From the exit of the scrubbing reactor the gas is directed through a wet electrostatic precipitator to remove the remaining targeted pollutants to very high removal efficiency.



21: 2019/01599. 22: 14/03/2019. 43: 4/6/2021
 51: C08F; B01J; C08L
 71: THAI POLYETHYLENE CO., LTD., SCG CHEMICALS CO., LTD.
 72: SUCHAO-IN, NATTHAPORN, KLOMKAMOL, WARACHAD
 33: EP 31: 16188319.4 32: 2016-09-12
54: MULTIMODAL POLYETHYLENE PIPE
 00: -

The present invention relates to a reactor system for a multimodal polyethylene composition comprising: (a) first reactor; (b) hydrogen removal unit arranged between the first reactor and a second reactor comprising at least one vessel connected with a depressurization equipment, preferably selected from vacuum pump, compressor, blower, ejector or a combination thereof, the depressurization equipment allowing to adjust an operating pressure to a pressure in a range of 100 - 200 kPa (abs); (c) the second reactor; and (d) a third reactor and use thereof as a pipe.

21: 2019/01600. 22: 14/03/2019. 43: 4/14/2021
 51: C08F; B01J; B29D; C08L; F16L
 71: THAI POLYETHYLENE CO., LTD., SCG CHEMICALS CO., LTD.
 72: SUCHAO-IN, NATTHAPORN, KLOMKAMOL, WARACHAD
 33: EP 31: 16188322.8 32: 2016-09-12
54: MULTIMODAL POLYETHYLENE PIPE
 00: -

The present invention relates to a reactor system for a multimodal polyethylene polymerization process, comprising: (a) first reactor; (b) a hydrogen removal unit arranged between the first reactor and a second reactor comprising at least one vessel connected with a depressurization equipment, preferably selected, from vacuum pump, compressor, blower, ejector or a combination thereof, the depressurization equipment allowing to adjust an operating pressure to a pressure in a range of 100 - 200 kPa (abs); (c) the second reactor; and (d) a third reactor and use thereof as a pipe.

21: 2019/01601. 22: 14/03/2019. 43: 4/14/2021
 51: C08F; B01J; C08J; C08L
 71: THAI POLYETHYLENE CO., LTD., SCG CHEMICALS CO., LTD.
 72: MATTAYAN, ARUNSRI, TRASILANUN, SARANYA, CHEEVASRIRUNGRUANG, WATCHAREE, KLOMKAMOL, WARACHAD
 33: EP 31: 16188329.3 32: 2016-09-12
54: MULTIMODAL POLYETHYLENE COMPOSITION AND A FILM COMPRISING THE SAME
 00: -

The present invention relates to a multimodal polyethylene composition comprising: (A) 40 to 65 parts by weight, preferably 43 to 52 parts by weight,

most preferred 44 to 50 parts by weight, of the low molecular weight polyethylene, the low molecular weight polyethylene having a weight average molecular weight (Mw) of 20,000 to 90,000 g/mol and having a MFRa from 500 to 1.000 g/10 min according to ASTM D 1238; (B) 8 to 20 parts by weight, preferably 10 to 18 parts by weight, most preferred 10 to 15 parts by weight, of the first high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 150,000 to 1,000,000g/mol or the first ultra high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 1,000,000 to 5,000,000g/mol; and (C) 30 to 50 parts by weight, preferably 37 to 47 parts by weight, most preferred 39 to 45 parts by weight, of the second high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 150,000 to 1,000,000g/mol or the second ultra high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 1,000,000 to 5,000,000g/mol, wherein the density of the first high molecular weight polyethylene or the first ultra high molecular weight polyethylene and the second high molecular weight polyethylene or the second ultra high molecular weight polyethylene are in the range from 0.920 to 0.950 g/cm³, and wherein the molecular weight distribution of the multimodal polyethylene composition is from 20 to 28, preferably from 24 to 28, measured by gel permeation chromatography, and a film comprising the multimodal polyethylene composition and the use thereof.

21: 2019/01602. 22: 14/03/2019. 43: 4/6/2021
 51: C08F; B01J; B65D; C08L
 71: THAI POLYETHYLENE CO., LTD., SCG CHEMICALS CO., LTD.
 72: SUK-EM, CHATDAO, SUCHAO-IN, NATTHAPORN, CHEEVASRIRUNGRUANG, WATCHAREE, KLOMKAMOL, WARACHAD, THITISAK, BOONYAKEAT
 33: EP 31: 16188343.4 32: 2016-09-12
54: MULTIMODAL POLYETHYLENE CONTAINER
 00: -

The present invention relates to a reactor system for a multimodal polyethylene polymerization process, comprising; (a) a first reactor; (b) a hydrogen removal unit arranged between the first reactor and

a second reactor comprising at least one vessel connected with a depressurization equipment, preferably selected from vacuum pump, compressor, blower, ejector or a combination thereof, the depressurization equipment allowing to adjust an operating pressure to a pressure in a range of 100 - 200 kPa (abs); (c) the second reactor; and (d) a third reactor and the use thereof as a container.

21: 2019/01603. 22: 14/03/2019. 43: 4/6/2021
 51: C08F; B01J; C08J; C08L
 71: THAI POLYETHYLENE CO., LTD., SCG CHEMICALS CO., LTD.
 72: JARUMANEEROJ, CHATCHAI, TRAISILANUN, SARANYA, CHEEVASRIRUNGRUANG, WATCHAREE, TIYAPIBOONCHAIYA, PIYAWAN
 33: EP 31: 16188347.5 32: 2016-09-12
54: HIGH PERFORMANCES MULTIMODAL ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
 00: -

The present invention relates to a reactor system for a multimodal polyethylene polymerization process, comprising; (a) a first reactor; (b) a hydrogen removal unit arranged between the first reactor and a second reactor comprising at least one vessel connected with a depressurization equipment, preferably selected from vacuum pump, compressor, blower, ejector or a combination thereof, the depressurization equipment allowing to adjust an operating pressure to a pressure in a range of 100 - 200 kPa (abs); (c) the second reactor; and (d) a third reactor and use thereof as a sheet.

21: 2019/01604. 22: 14/03/2019. 43: 4/6/2021
 51: C08J; C08L
 71: THAI POLYETHYLENE CO., LTD., SCG CHEMICALS CO., LTD.
 72: MATTAYAN, ARUNSRI, CHEEVASRIRUNGRUANG, WATCHAREE, TRAISILANUN, SARANYA, KLOMKAMOL, WARACHAD
 33: EP 31: 16188335.0 32: 2016-09-12
54: MULTIMODAL POLYETHYLENE FILM
 00: -

The present invention relates to a multimodal polyethylene composition comprising: (A) 40 to 65 parts by weight, preferably 43 to 52 parts by weight, most preferred 44 to 50 parts by weight, of the low molecular weight polyethylene having a weight

average molecular weight (Mw) of 20,000 to 90,000 g/mol, wherein the low molecular weight polyethylene has a MI2 of 500 to 1,000 g/10 min according to ASTM D 1238; (B) 5 to 17 parts by weight, preferably 10 to 17 parts by weight, most preferred 10 to 15 parts by weight, of the first high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 150,000 to 1,000,000g/mol or the first ultra high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 1,000,000 to 5,000,000g/mol; and (C) 30 to 50 parts by weight, preferably 37 to 47 party by weight, most preferably 39 to 45 parts by weight, of the second high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 150,000 to 1,000,000g/mol or the second ultra high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 1,000,000 to 5,000,000g/mol, wherein the density of the first high molecular weight polyethylene or the first ultra high molecular weight polyethylene and the second high molecular weight polyethylene or the second ultra high molecular weight polyethylene is in the same range and both densities are in the range from 0.910 to 0.940 g/cm³; and the molecular weight distribution of the multimodal polyethylene composition is from 18 to 30, preferably 20 to 28, measured by gel permeation chromatography., film comprising the multimodal polyethylene composition and the use thereof.

21: 2019/01628. 22: 3/15/2019. 43: 4/14/2021
51: C07B; C07C

71: Organofuel Sweden AB

72: CORDOVA, Armando, AFEWERKI, Samson

33: US 31: 62/375,805 32: 2016-08-16

54: CONVERSION OF ALCOHOLS TO LINEAR AND BRANCHED FUNCTIONALIZED ALKANES

00: -

Embodiments herein concerns the eco-friendly conversion of simple alcohols to linear or branched functionalized alkanes, by integrated catalysis. The alcohols are firstly oxidized either chemically or enzymatically to the corresponding aldehydes or ketones, followed by aldol condensations using a catalyst to give the corresponding enals or enones. The enals or enones are subsequently and selectively hydrogenated using a recyclable

heterogeneous metal catalyst, organocatalyst or an enzyme to provide linear or branched functionalized alkanes with an aldehyde, keto- or alcohol functionality. The process is also iterative and can be further extended by repeating the above integrated catalysis for producing long-chain functionalized alkanes from simple alcohols.

21: 2019/01641. 22: 15/03/2019. 43: 4/6/2021

51: C07C

71: JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED

72: ROBERTS, DENA, WATSON, DAVID JOHN, SWINNEY, JOHN

33: GB 31: 1615762.0 32: 2016-09-16

54: PROCESS FOR THE PRODUCTION OF GLYCOLIC ACID

00: -

A process for the production of glycolic acid or a derivative thereof comprises: reacting formaldehyde with carbon monoxide and water in a carbonylation reactor in the presence of a sulfur catalyst, said reactor operating under suitable conditions, such that glycolic acid is formed; recovering a first product stream comprising glycolic acid, impurities and a sulfur species in the carbonylation reactor; passing the first product stream to an esterification reactor where it is subjected to esterification to form an alkylglycolate and wherein the esterification is catalysed by the sulfur species recovered in the first product stream; recovering a second product stream comprising the alkylglycolate, sulfur species and impurities from the esterification reactor; separating the sulfur species from the second product stream and recycling it to the carbonylation reactor in step (a) to form a sulphur depleted second product stream; separating the alkylglycolate from the sulphur depleted second product stream in a distillation zone; and recovering the alkylglycolate and converting the alkylglycolate to glycolic acid.

21: 2019/01643. 22: 15/03/2019. 43: 4/6/2021

51: B65G

71: BRUKS ROCKWOOD, LLC

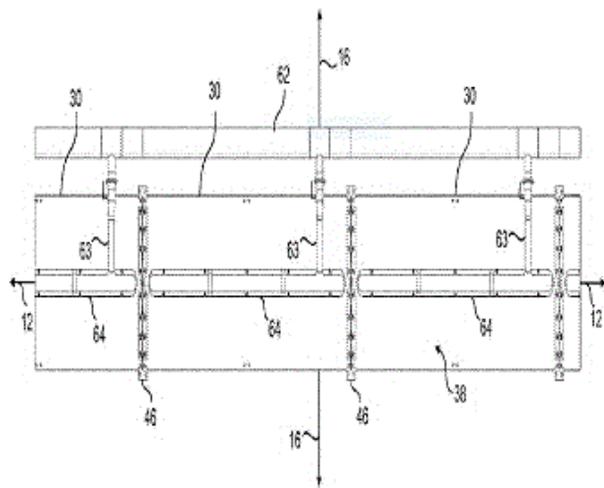
72: WARMOTH, FRANCIS J, NILSSON, BENGT AXEL, BENNETT, STEVEN B

33: US 31: 62/395,816 32: 2016-09-16

54: AIR-SUPPORTED BELT CONVEYORS AND SYSTEMS AND METHODS OF USING SAME

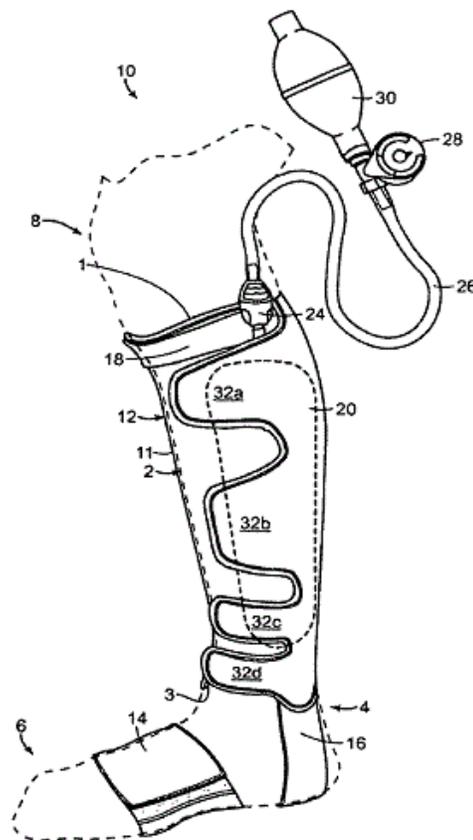
00: -

Disclosed herein are air-supported belt conveyors and independent conveyor subsystems that are selectively and independently designed to meet requirements that can change along the length of a conveyor, as well as from conveyor to conveyor.



21: 2019/01658. 22: 3/18/2019. 43: 4/6/2021
 51: A61H
 71: SUN SCIENTIFIC, INC.
 72: RAVIKUMAR, Sundaram, RAVIKUMAR, Vikram, OSBORNE, Guy, NOLAN, Timothy
 33: US 31: 62/378,581 32: 2016-08-23
54: THERAPEUTIC COMPRESSION APPARATUS AND METHODS OF USE

00: -
 A therapeutic compression apparatus for providing pressure to a limb or other body part including a bladder assembly having at least one bladder within, a primary wrap and/or a secondary wrap. The primary wrap includes an inflation port to connect to an inflation means which provides either constant or varying pressure within the bladder and a check valve is included in the inflation port and/or inflation means.



21: 2019/01820. 22: 25/03/2019. 43: 4/6/2021
 51: C12N
 71: DUPONT NUTRITION BIOSCIENCES APS
 72: CRAMER, JACOB FLYVHOLM, JENSEN, LENE BOJSEN
 33: US 31: 62/395,592 32: 2016-09-16
54: ACETOLACTATE DECARBOXYLASE VARIANTS HAVING IMPROVED SPECIFIC ACTIVITY

00: -
 Compositions and methods are provided comprising acetolactate decarboxylase (ALDC) enzyme variants having higher specific activity. Composition and method are provided where the ALDC variants are used in combination with metal ions to further increase stability and/or activity.

21: 2019/02015. 22: 01/04/2019. 43: 4/14/2021
 51: B01J; C10G
 71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.
 72: DOGTEROM, Ronald, Jan, VAN DER LAAN, Gerard, Pieter, CHETTOUF, Abderrahmane
 33: EP 31: 16195968.9 32: 2016-10-27

54: A FISCHER-TROPSCH CATALYST BODY

00: -
 The present application relates to a Fischer-Tropsch catalyst body having an open-celled foam structure, said catalyst body comprising a substrate material and a catalytic active material or precursor thereof wherein: - The substrate material: is a metal alloy or ceramic material; having a surface roughness of 50µm or more; has an open-celled foam structure with at least 15 pores per inch; and - The catalytically active material or precursor thereof which: is present on the surface of the substrate material; comprises cobalt, iron, ruthenium or a combination thereof; and comprises a catalyst support selected from titania, alumina or silica.

21: 2019/02147. 22: 05/04/2019. 43: 4/6/2021
 51: C02F; B01D
 71: FLUENCE WATER ISRAEL LTD
 72: AMARAL, AVRAHAM ISRAEL, LEVY, RAVID, ELOVIC, PHIL
 33: US 31: 62/395,317 32: 2016-09-15

54: CONTAINERIZED DESALINATION SYSTEM

00: -
 A water desalination system includes a first set of ultrafiltration membranes, a second set of ultrafiltration membranes, a first backwashing system configured to treat at least one of the first set of ultrafiltration membranes or the second set of ultrafiltration membranes with brine generated by a reverse osmosis process, and a second backwashing system configured to treat at least one of the first set of ultrafiltration membranes or the second set of ultrafiltration membranes with one or more chemicals and reverse osmosis permeate water.

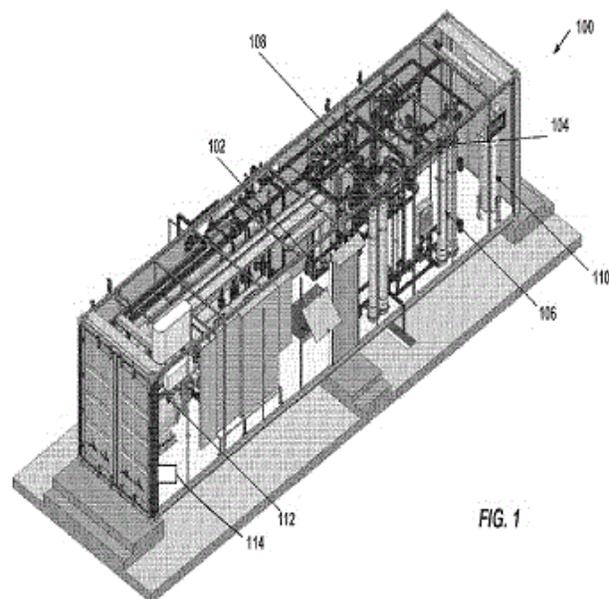
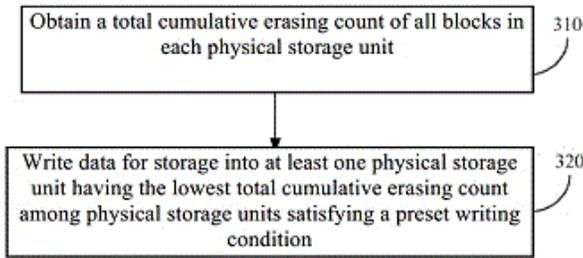


FIG. 1

21: 2019/02298. 22: 11/04/2019. 43: 4/21/2021
 51: G06F
 71: ANT FINANCIAL (HANG ZHOU) NETWORK TECHNOLOGY CO., LTD.
 72: ZHANG, HAIPENG

54: METHOD AND DEVICE FOR WRITING STORED DATA INTO STORAGE MEDIUM BASED ON FLASH MEMORY

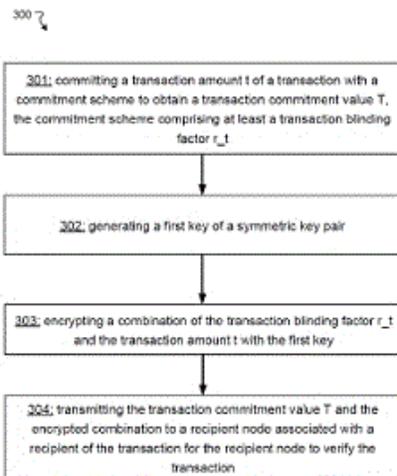
00: -
 A method for writing stored data into a storage medium based on a flash memory, the method being applied to a central control function module for performing writing control over at least two physical storage units. The method comprises: acquiring the total accumulated number of times all blocks in each physical storage unit are erased (310); and in a physical storage unit satisfying a pre-determined writing condition, writing stored data into at least one physical storage unit, the total accumulated number of times same is erased thereof being the smallest (320). By means of the technical solution, balanced erasing and writing among different physical storage units is realised, the case that a single physical storage unit is damaged ahead of time because the physical storage unit is erased and written too many times is avoided, and the stability of a system where the physical storage unit is located can be improved where there is high availability.



21: 2019/02470. 22: 17/04/2019. 43: 4/21/2021
 51: H04L
 71: ADVANCED NEW TECHNOLOGIES CO., LTD.
 72: MA, BAOLI, ZHANG, WENBIN, MA, HUANYU,
 LIU, ZHENG, CUI, JIAHUI

54: SYSTEM AND METHOD FOR INFORMATION PROTECTION

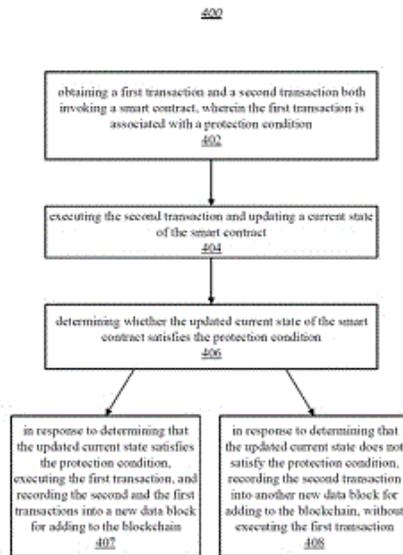
00: -
 A computer-implemented method comprises:
 committing a transaction amount of a transaction with a commitment scheme to obtain a transaction commitment value, the commitment scheme comprising at least a transaction blinding factor;
 generating a first key of a symmetric key pair;
 encrypting a combination of the transaction blinding factor and the transaction amount t with the first key;
 and transmitting the transaction commitment value T and the encrypted combination to a recipient node associated with a recipient of the transaction for the recipient node to verify the transaction.



21: 2019/02474. 22: 17/04/2019. 43: 4/21/2021
 51: G06Q
 71: ADVANCED NEW TECHNOLOGIES CO., LTD.
 72: YAO, ZHONGXIAO

54: SYSTEM AND METHOD FOR IMPROVING SECURITY OF SMART CONTRACT ON BLOCKCHAIN

00: -
 A computer-implemented method for improving security of smart contract comprises: obtaining a first and a second transactions both invoking a smart contract, wherein the first transaction is associated with a protection condition; executing the second transaction and updating a current state of the smart contract; determining whether the updated current state of the smart contract satisfies the protection condition; in response to determining that the updated current state satisfies the protection condition, executing the first transaction, and recording the second and the first transactions into a data block for adding to a blockchain; and in response to determining that the updated current state does not satisfy the protection condition, recording the second transaction into another data block for adding to the blockchain, without executing the first transaction.

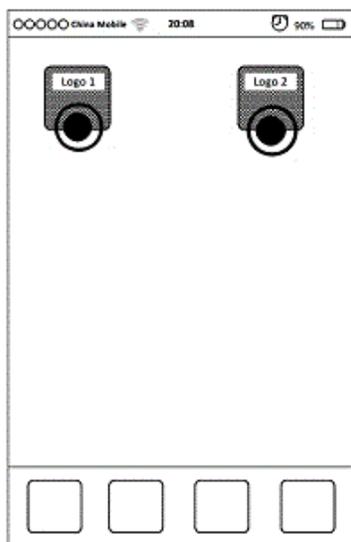


21: 2019/02477. 22: 17/04/2019. 43: 4/21/2021
 51: G06F
 71: ADVANCED NEW TECHNOLOGIES CO., LTD.
 72: LIU, LINDONG
 33: CN 31: 201610839763.4 32: 2016-09-21

54: OPERATION OBJECT PROCESSING METHOD AND APPARATUS

00: -
 An operation object processing method and apparatus. The method comprises: receiving touch

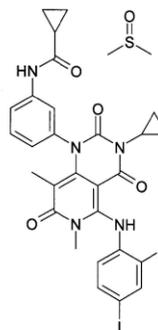
position information generated based on multi-point touch operations; determining operation objects corresponding to the touch position information; determining a target object set corresponding to the operation objects; and merging the operation objects according to the target object set. By means of the method, a user does not need to perform operations of long pressing, dragging and the like on operation objects, and especially for multiple operation objects, the user can conveniently merge the multiple operation objects into a target object set by means of multi-point pressing.



21: 2019/02861. 22: 5/7/2019. 43: 4/23/2021
51: A61K; A61P; C07D
71: R-Pharm Joint Stock Company (R-Pharm, JSC), REPIK, Alexey Evgenievich
72: IVACHTCHENKO, Alexandre Vasilievich, IGNATIEV, Vasily Gennadievich, CHAFEEV, Mikhail Airatovich, REPIK, Alexey Evgenievich
33: RU 31: 2016139641 32: 2016-10-10
54: N-{3-[3-CYCLOPROPYL-5-(2-FLUORO-4-IODOPHENYLAMINO)-6,8-DIMETHYL-2,4,7-TRIOXO-3,4,6,7-TETRAHYDRO-2H-PYRIDO[4,3-D]PYRIMIDIN-1-YL]-PHENYL}-CYCLOPROPANECARBOXAMIDE DIMETHYL SULPHOXIDE SOLVATE AS AN MEK1/2 INHIBITOR

00: -
The aim of the present invention is to create novel MEK1, MEK2 and MEK1/2 inhibitors which have lower toxicity in long-term dosage. This aim is achieved by the novel compound N-{3-[3-cyclopropyl-5-(2-fluoro-4-iodophenylamino)-6,8-

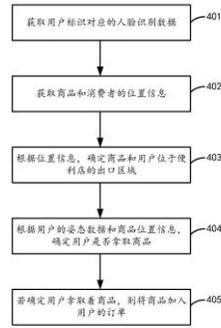
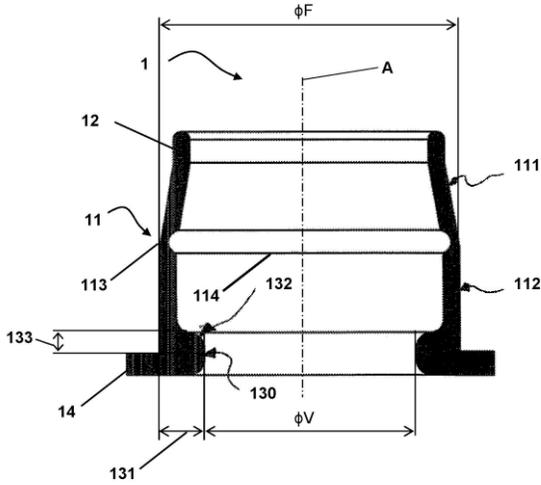
dimethyl-2,4,7-trioxo-3,4,6,7-tetrahydro-2H-pyrido[4,3-d]pyrimidin-1-yl]-phenyl}-cyclopropanecarboxamide dimethyl sulphoxide solvate of formula 1.



1

21: 2019/02864. 22: 5/7/2019. 43: 4/14/2021
51: F16L
71: TROMBATORE, Giuseppe
72: TROMBATORE, Giuseppe, TROMBATORE, Giovanni
33: IT 31: 102016000113022 32: 2016-11-09
54: DEFORMABLE GASKET FOR THE SEALED PASSAGE OF A FLUID THROUGH A WALL

00: -
A gasket (1) for use with a connector assembly (100) apt to allow the sealed passage of a fluid through a wall (P) and suitable for installation realized from just one side of said wall, which gasket has a deformable region (11). The gasket (1) is configured to assume an installation configuration, in which said gasket can be introduced into a connector seat (D) formed in the wall (P), crossing it from side to side, and a sealing configuration, wherein said gasket is installed in the wall (P) and deformed, at said deformable region, to abut on an inside mouthpiece of the connector seat.



401 Acquire facial recognition data corresponding to a user ID
 402 Acquire position information of a product and a consumer
 403 On the basis of the position information, determining that the product and the user are at the exit area of a convenience store
 404 On the basis of gesture data of the user and position information of the product, determine whether the user has picked up the product
 405 If determining that the user has picked up products, then add the product to the user order

图 4

21: 2019/02866. 22: 5/7/2019. 43: 4/23/2021
 51: G06Q
 71: Advanced New Technologies Co., Ltd.
 72: LI, Jiajia, JIAO, Lei
 33: CN 31: 201710132344.1 32: 2017-03-07
54: ORDER INFORMATION DETERMINING METHOD AND APPARATUS

00: -
 Provided in the present invention are an order information determining method and apparatus, the method being used for determining an association between a user and a selected product, and comprising: performing human gesture recognition on the user to obtain gesture data of the user; positioning the product to obtain position information of the product; on the basis of the gesture data and position information, determining whether the user gesture is picking up the product; if the determining results are that the user gesture is picking up the product, then adding the product to the user order. The present invention improves purchasing efficiency, and has a good purchasing experience.

21: 2019/02977. 22: 5/13/2019. 43: 4/23/2021
 51: H04L
 71: Huawei Technologies Co., Ltd.
 72: PENG, Jinlin, DONG, Pengpeng, WANG, Zongjie, ZHANG, Peng
 33: CN 31: 201610982030.6 32: 2016-11-04
54: DATA TRANSMISSION METHOD AND APPARATUS
 00: -

Disclosed are a data transmission method and apparatus, relating to the technical field of data processing and used for improving transmission efficiency. The method comprises: receiving control information and data of a transport block (TB) mapped to a first time-frequency resource; obtaining m code block (CB) groups from the first time-frequency resource, and demodulating and decoding data of the m CB groups and then performing cascading to generate data of one TB, wherein m is a positive integer, $m = \min(N_{CB_re}, N_{Group_max})$, N_{CB_re} is the quantity of CBs in a TB, N_{Group_max} is a maximum of the quantity of CB groups, each of the m CB groups comprises at least one CB, N_{CB_re} is determined according to a TB size (TBS) of the TB and a maximum value of a data length of the CB, and the TBS is determined according to control information.

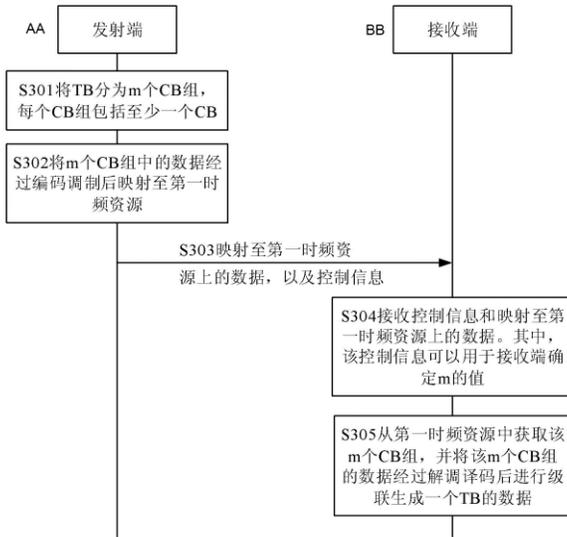


图 12a

S301 DIVIDE A TB INTO M CB GROUPS, EACH CB GROUP COMPRISING AT LEAST ONE CB
 S302 PERFORM CODE MODULATION ON DATA IN THE M CB GROUPS, AND THEN MAP THE CODE-MODULATED DATA TO A FIRST TIME-FREQUENCY RESOURCE
 S303 DATA MAPPED TO THE FIRST TIME-FREQUENCY RESOURCE, AND CONTROL INFORMATION
 S304 RECEIVE THE CONTROL INFORMATION AND THE DATA MAPPED TO THE FIRST TIME-FREQUENCY RESOURCE, WHEREIN THE RECEIVE END MAY DETERMINE A VALUE OF M ACCORDING TO THE CONTROL INFORMATION
 S305 OBTAIN THE M CB GROUPS FROM THE FIRST TIME-FREQUENCY RESOURCE, DEMODULATE AND DECODE THE DATA OF THE M CB GROUPS, AND THEN PERFORM CASCADING TO GENERATE DATA OF ONE TB
 AA TRANSMIT END
 BB RECEIVE END

distal end of said support leg is positioned to abut against a supporting surface on which the vehicle stands and in the diagonal mode, a knee of the support structure or at least a part of a lateral side of said support leg is positioned to abut against the supporting surface on which the vehicle stands.

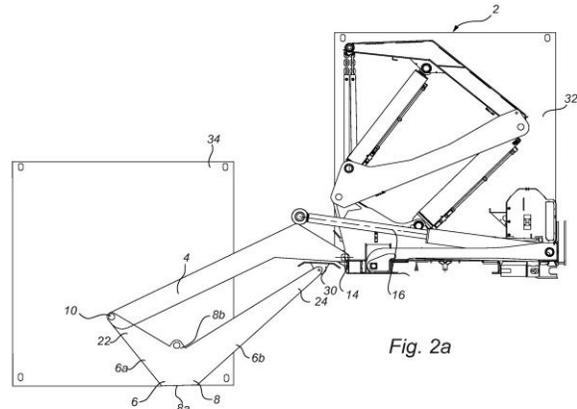


Fig. 2a

21: 2019/03200. 22: 5/21/2019. 43: 4/23/2021
 51: B60P; B66C
 71: Hammar Maskin IP AB
 72: HAMMAR, Bengt-Olof
 33: EP(SE) 31: 16201794.1 32: 2016-12-01
54: SUPPORT STRUCTURE FOR A VEHICLE WITH A CARGO CRANE
 00: -

The present invention relates to a support structure for a vehicle provided with a cargo crane having a crane base, said support structure comprising a support beam connectable to said crane base and a support leg, wherein a proximal end of said support leg is connected to said support beam at a pivoting point, such that, said support leg is pivotable around said pivoting point relative to said support beam. The support structure further comprises an actuating device connected to the support leg for pivoting said support leg relative to said support beam, wherein said actuating device is configured to arrange said support structure in at least a tunnel mode and a diagonal mode, by adjusting an extension of said actuating device, such that in the tunnel mode, a

21: 2019/03423. 22: 5/29/2019. 43: 4/23/2021
 51: G06F; G06Q; H04L
 71: Alibaba Group Holding Limited
 72: HU, Danqing, ZHANG, Shaorong
 33: CN 31: 201810277604.9 32: 2018-03-30
54: METHOD, APPARATUS AND ELECTRONIC DEVICE FOR SERVICE EXECUTION BASED ON BLOCKCHAIN
 00: -

Appearance data of a target entity is collected as appearance data, where the target entity comprises a physical entity capable of accessing, as a member, a blockchain. The appearance data is registered in a distributed database associated with the blockchain as an identity of the target entity. A target transaction initiated by a member node device in the blockchain is received, where the target transaction comprises the appearance data of the target entity that is collected by the member node device and a service event that is related to the target entity and that is detected by the member node device. A smart contract that corresponds to the service event is invoked. Based on the identity indicated by the appearance data of the target entity, a service logic stated in the smart contract is executed.

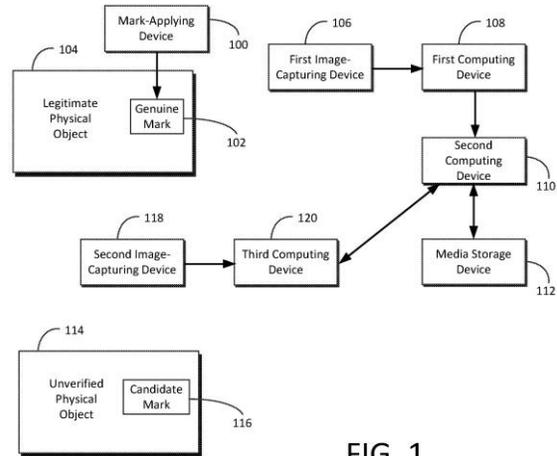
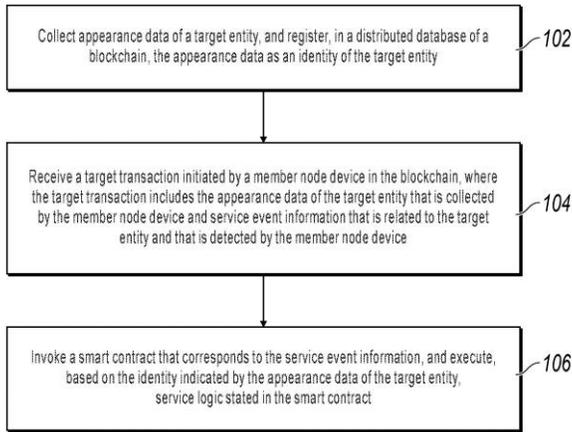


FIG. 1

21: 2019/03459. 22: 5/30/2019. 43: 4/9/2021
51: F16K

71: Sys-Tech Solutions, Inc.

72: SOBORSKI, Michael L.

33: US 31: 15/374,729 32: 2016-12-09

54: METHODS AND A COMPUTING DEVICE FOR DETERMINING WHETHER A MARK IS GENUINE

00: -

The present disclosure is generally directed to a method and computing device for determining whether a mark is genuine. According to various implementations, a computing device (or logic circuitry thereof) uses unintentionally-produced artifacts within a genuine mark to define an identifiable electronic signature, extracts certain attributes of the signature (such as deviation from the mean value for each band of the signature), and assigns numerical values to the extracted attributes in order to create a hash identifier that is significantly smaller than the electronic signature itself. The hash identifier is then used as an index for a database of electronic signatures (of genuine marks) to enhance the ease and speed with which numerous genuine signatures can be searched (e.g., in a database) and compared with signatures (of candidate marks).

21: 2019/04117. 22: 6/25/2019. 43: 5/14/2021

51: B65F; B66F

71: EMID (Pty) Ltd

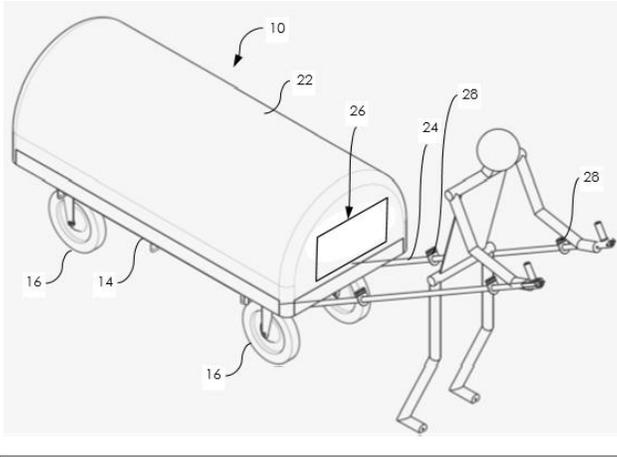
72: CLAASSEN, Daniël Gerhardus

33: ZA 31: 2018/04510 32: 2018-07-06

54: WASTE PICKERS TROLLEY

00: -

This invention relates to a waste pickers trolley 10 including a convertible load bed, the trolley including a load bed extension 18 which comprises an extension piece, which is a removable load bed configured for securement underneath the load bed. A removable tent superstructure 22 configured for attachment to the trolley base. A pulling yoke 24 pivotably mounted to the trolley 10 which is fitted with a wheel brake secured to the pulling yoke 24 configured to engage with a wheel 16 of the trolley 10, when raised above a predetermined angle. The wheels 16 of the trolley 10 are mounted to the trolley framework 14 by means of a steerable pivoting frame. The trolley 10 is equipped and configured with an electricity-generating and storage capacity, through means of the securement of photovoltaic panels to the end frames of the trolley.



21: 2019/04167. 22: 6/26/2019. 43: 4/9/2021
 51: F16G
 71: Gripple Limited
 72: GIEMZA, Lee
 33: GB 31: GB1700691.7 32: 2017-01-16
54: SECURING DEVICE
 00: -

A securing arrangement (10) comprises an elongate article (14) and a securing device (12). The securing device (12) has a body (20) and first and second clamping members (28) within the body (20) for clamping the elongate article (14). The clamping members (28) are disposed in an opposed position relative to one another. The elongate article (14) comprises a plurality of strands (16A - 16F) wound around one another in a plurality of turns of each strand. Each strand (16A - 16F) has substantially the same pitch as each other strand, and each clamping member (28) has an engaging surface (57) for engaging the elongate article (14). Each engaging surface (57) is configured to engage half or more of the total number of strands forming the elongate article (14).

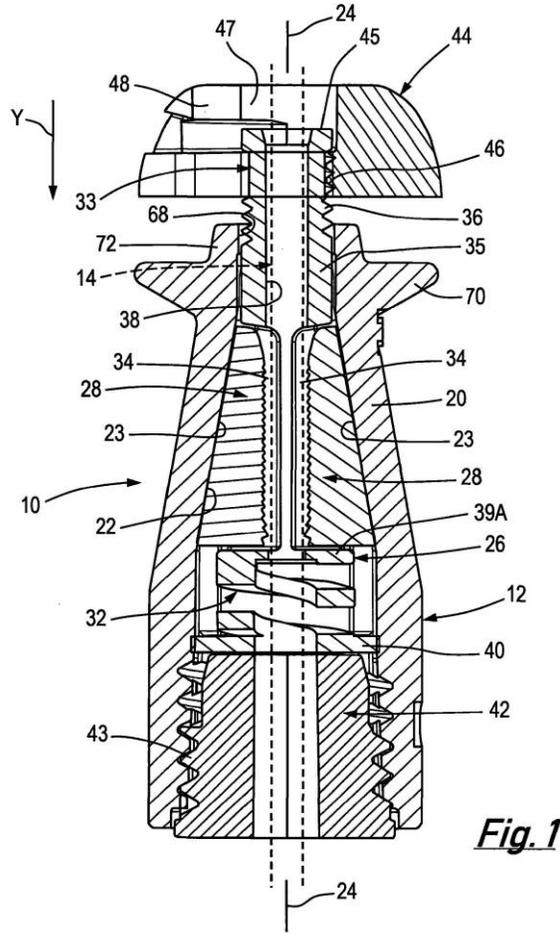


Fig. 1

21: 2019/04272. 22: 6/28/2019. 43: 4/9/2021
 51: F42B
 71: Rheinmetall Waffe Munition GmbH
 72: BLACHE, Andreas, AUMUND-KOPP, Ralf, GUISCHARD, Frank
 33: DE 31: 10 2017 105 565.7 32: 2017-03-15
54: MUNITION AND LOGISTICS CONCEPT FOR, IN PARTICULAR, ARTILLERY PROJECTILES
 00: -

The invention proposes the use of a uniform projectile casing (1) which is utilized for projectiles (40-45) with different ranges. A projectile (40, 42, 44) of relatively short range can in this case be optimized with regard to payload, whereas a projectile (41, 43, 45) with the relatively long range is subjected to a range optimization, with a reduction in payload. The payload of a projectile (41, 43, 45) of relatively long range is generally lower in relation to a projectile (40, 42, 44) with relatively short range. The artillery projectiles (40-45) have a projectile casing (1) of equal size for the projectiles of different

range. That is to say, to create an artillery projectile (40, 42, 44), for example 155 mm, a uniform payload-optimized 30 km projectile casing (1) is used, from which 40 km projectiles (41, 43, 45) can be generated (produced, assembled) by means of a reduction in payload. The range is selected and defined by means of mutually different projectile bases (11, 21). The artillery projectile is composed of multiple modular parts which are assembled in order to create the artillery projectile.

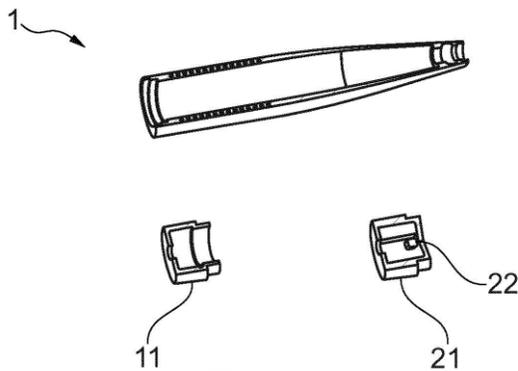


Fig. 1

21: 2019/04281. 22: 6/28/2019. 43: 4/9/2021
51: E21B; G01B

71: Globaltech Corporation Pty Ltd
72: HEJLEH, Khaled Mufid Yousef

33: AU 31: 2016905333 32: 2016-12-22

54: MONITORING, AUDITING AND/OR DETERMINING DEPTH OF OR IN A BOREHOLE

00: -

A system and method for determining a depth in a drill hole associated with a drilling operation include means and steps for: determining a value for at least one constant parameter and/or a value for at least one variable parameter of a drill rig and/or the drill hole of the associated drilling operation, and calculating the depth in the drill hole from the at least one value constant parameter and/or variable parameter. The constant parameter(s) and/or the variable parameter(s) can be recorded relating to a specific drill rig and/or drill hole. The constant parameter(s) can include one or more of chosen constant stick up distance and/or of a bottom hole assembly length. The variable parameter(s) can include one or more of rod length, rod added or removed out of each run, and/or rod stick up.

Entered or recorded data can be progressively tracked and a time record for one or more events generated relating to the drilling operation. The system and method can be implemented in a device having a processor, memory and display, such as a handheld (portable) device.

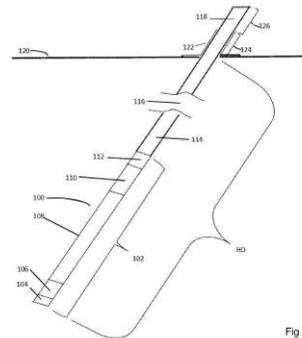


Fig 1

21: 2019/04283. 22: 6/28/2019. 43: 4/9/2021

51: G01S; G04G; G04R; H04L

71: Enabler Ltd.

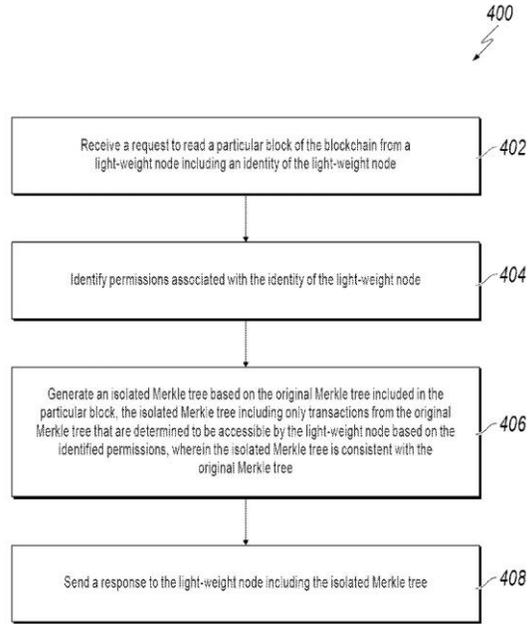
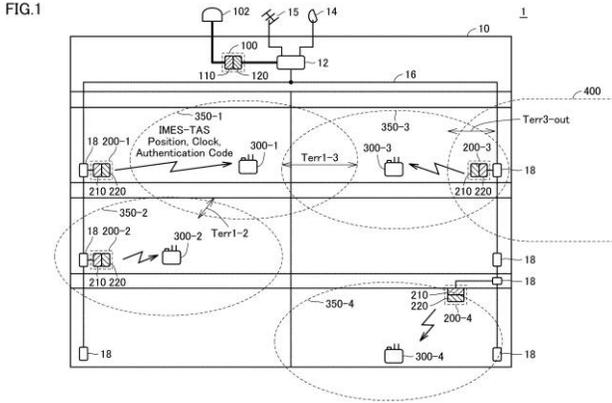
72: SHINOHARA, Takahiro

33: JP 31: 2016-231647 32: 2016-11-29

54: TIME SYNCHRONIZATION SYSTEM AND TRANSMISSION DEVICE

00: -

Provided is a system with which time synchronization can be realized for a plurality of devices that are disposed at positions where a GNSS signal cannot be received. A time synchronization system comprises: a reference time acquisition unit that acquires, on the basis of a wireless signal from a positioning satellite system, a first timing signal and time information corresponding to a timing indicated by the first timing signal; a modulation unit that is connected to wiring divided into a plurality of branches, and that generates, in synchronization with the first timing signal, a modulation signal containing the corresponding time information and transmits the modulation signal through the wiring; at least one demodulation unit that is connected to one of the branches of the wiring, and that demodulates the modulation signal propagating through the wiring; and at least one transmission unit that transmits, on the basis of a second timing signal acquired by the demodulation by one of the demodulation units and time information, a first wireless signal that is compatible with the wireless signal from the positioning satellite system.



21: 2019/04928. 22: 7/26/2019. 43: 3/30/2021
51: H04L

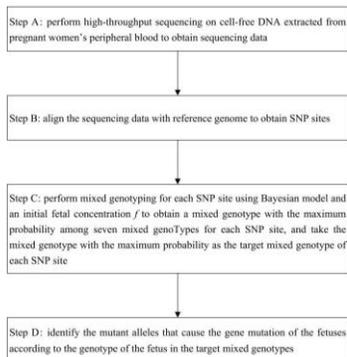
71: Alibaba Group Holding Limited
72: ZHANG, Wenbin, SHEN, Chao
54: DATA ISOLATION IN A BLOCKCHAIN NETWORK

00: -
Implementations of the present specification include receiving, by a blockchain node in the blockchain network, a request to read a particular block of the blockchain, wherein the request is received from a light-weight node of the blockchain network and includes an identity of the light-weight node, and wherein the particular block includes an original Merkle tree associated with the particular block; identifying, by the blockchain node, permissions associated with the identity of the light-weight node; generating, by the blockchain node, an isolated Merkle tree based on the original Merkle tree included in the block, the isolated Merkle tree including only transactions from the original Merkle tree that are determined to be accessible by the light-weight node based on the identified permissions, wherein the isolated Merkle tree is consistent with the original Merkle tree; and sending, by the blockchain node, a response to the light-weight node including the isolated Merkle tree.

21: 2019/04961. 22: 29/07/2019. 43: 6/1/2021
51: C12Q

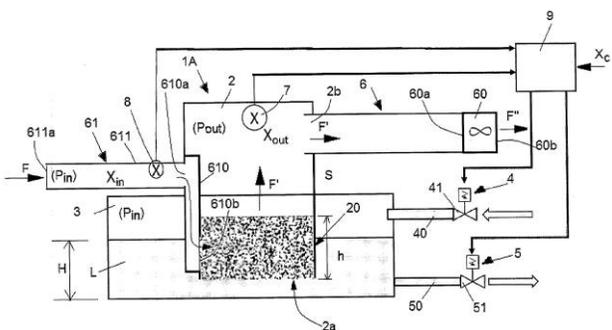
71: ANNOROAD GENE TECHNOLOGY (BEIJING) CO., LTD
72: DU, Yang, PENG, Shengbin, HUI, Feng, ZHANG, Han, XUAN, Zhaoling, LI, Dawei, LIANG, Junbin, CHEN, Chongjian
33: CN 31: 201611270836.9 32: 2016-12-29
54: METHOD, DEVICE AND KIT FOR DETECTING FETAL GENE MUTATION

00: -
Provided are a method and a device for detecting genetic mutations and a kit for genotyping of pregnant women and fetuses. The method comprises: performing high-throughput sequencing on cell free DNA in pregnant women's peripheral blood to obtain sequencing data; aligning the sequencing data with reference genome to obtain SNP sites; performing mixed genotyping at each SNP site to obtain target genotypes for each SNP site; and identifying mutant alleles that cause the gene mutations from the genotype of the fetus in the target genotypes. The method provided by the present invention does not require separate sequencing of samples from fathers or mothers, and realizes that all the possible gene mutations of the fetus can be detected by using only the sequencing data of the maternal peripheral blood, which provides convenient and diversified services for fetal genetic testing.



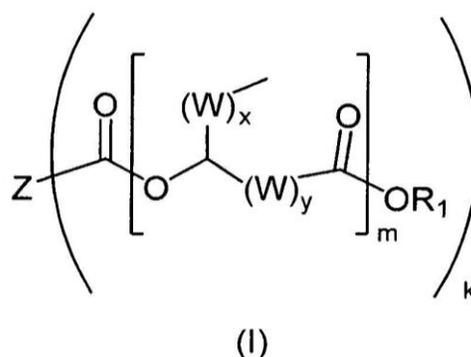
21: 2019/05016. 22: 7/30/2019. 43: 4/14/2021
 51: B01D; B01J
 71: Starklab
 72: ZEMMOURI, Jaouad
 33: FR 31: 1751104 32: 2017-02-10
54: DEVICE FOR PRODUCING AND TREATING A GAS STREAM THROUGH AN AUTOMATICALLY CONTROLLED VOLUME OF LIQUID

00: -
 The device for producing and treating a gas stream (F) comprises an exchange chamber (2) having at least a first discharge opening (2b) for a gas stream, means (3; 4) for supplying the chamber with a liquid (L), means (3; 5) for discharging the liquid (L) contained in the exchange chamber (2) and ventilation means (6), which make it possible, during operation, to create, by means of suction or blowing, an incoming gas stream (F) coming from outside the exchange chamber (2), so that said incoming gas stream (F) is introduced into the volume of liquid (V) contained in the exchange chamber (2), and an outgoing gas stream (F'), treated by direct contact with said volume of liquid, rises inside the exchange chamber and is discharged out of the exchange chamber (2) through the discharge opening (2b). The device comprises first means (7) for measuring a first operating parameter (X)



21: 2019/05065. 22: 7/31/2019. 43: 4/14/2021
 51: C07C; C10M
 71: Klüber Lubrication München SE & Co. KG
 72: SEEMEYER, Stefan, ERHARD, Maximilian, KILTHAU, Thomas, MA, Ling
 33: DE 31: 10 2017 003 040.5 32: 2017-03-29
54: NOVEL ESTER COMPOUNDS, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF

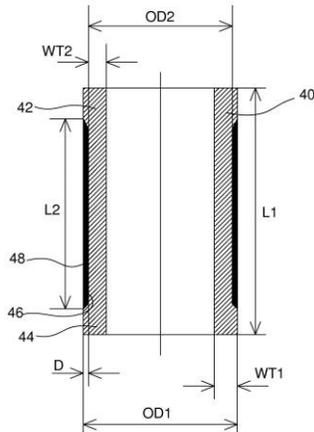
00: -
 The invention relates to novel ester compounds based on bi-, tri- or higher functional carboxylic acids of general formula (I) and to a method for the production thereof and the use thereof in lubricants.



21: 2019/05383. 22: 8/14/2019. 43: 4/14/2021
 51: F16L; F22B; F23C
 71: Sumitomo SHI FW Energia Oy
 72: MURPHY, John
 33: US 31: 15/448,852 32: 2017-03-03
54: WATERTUBE PANEL PORTION AND A METHOD OF MANUFACTURING A WATERTUBE PANEL PORTION IN A FLUIDIZED BED REACTOR

00: -
 A watertube panel portion for a fluidized bed reactor and a corresponding method. The watertube panel portion includes multiple parallel metal tubes having a tube length L1, an outer surface, an original outer diameter OD1, and an original wall thickness WT1, and a circumferentially extending recess formed in a central portion of each of the tubes, between first and second end portions. The recess has a constant depth D that is less than the wall thickness WT1. The recess encircles the outer surface of the central portion of the metal tube. A circumferentially extending metal coating has a constant thickness of at most the depth D of the recess to blanket the

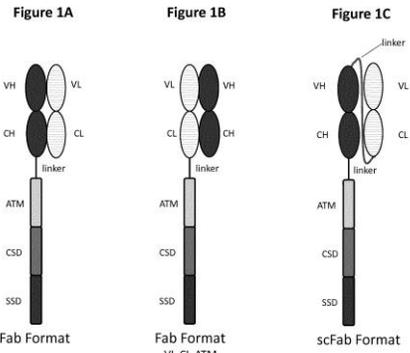
recess of each of the multiple metal tubes. A fin is continuously welded between each pair of adjacent tubes.



21: 2019/05519. 22: 8/21/2019. 43: 4/14/2021
 51: A61K; C07K
 71: F. Hoffmann-La Roche AG
 72: KLEIN, Christian, MOESSNER, Ekkehard,
 DAROWSKI, Diana, STUBENRAUCH, Kay-Gunnar
 33: EP(CH) 31: 17163090.8 32: 2017-03-27

54: IMPROVED ANTIGEN BINDING RECEPTOR FORMATS

00: -
 The present disclosure generally relates to antigen binding receptors in new formats capable of specific binding to a tumor associated antigen. More precisely, the present invention relates to an antigen binding receptor which efficiently and specifically binds to/interacts with an antigen on the surface of a tumor cell, and to a T cell transfected/transduced with the antigen binding receptor. Furthermore, the invention relates to nucleic acid molecules and vectors encoding antigen binding receptors of the present invention. The invention also provides the production and use of T cells in a method for the treatment of particular diseases as well as pharmaceutical compositions/medicaments comprising antigen binding receptors and/or T cells of the present invention.



ATM = anchoring transmembrane domain; CSD = co-stimulatory signaling domain; SSD = stimulatory signaling domain

21: 2019/05542. 22: 8/22/2019. 43: 4/23/2021
 51: A23B; A23L; H05B
 71: CSIR
 72: ROSSOUW, Mathys Johannes, DAWLAL, Pranitha
 33: ZA 31: 2017/01326 32: 2017-02-22

54: MICROWAVE EGG PASTEURIZATION METHOD AND APPARATUS

00: -
 An in-shell egg pasteurization process includes, in a temperature-raising stage (12), raising the temperature of yolk of a plurality of in-shell eggs (40), simultaneously and at least predominantly by means of microwave radiation, to a pasteurization temperature, the temperature-raising stage (12) including a plurality of elongate or longitudinally extending microwave cavities that are isolated from one another so that microwaves fed into an elongate or longitudinally extending microwave cavity do not leak into any other elongate or longitudinally extending microwave cavity. The in-shell eggs (40) are displaced along the lengths of the elongate or longitudinally extending microwave cavities whilst being irradiated with microwaves. In a pasteurization stage (14), the raised temperatures of the in-shell eggs (40) are maintained for a pasteurization time sufficient to pasteurize the in-shell eggs (40).

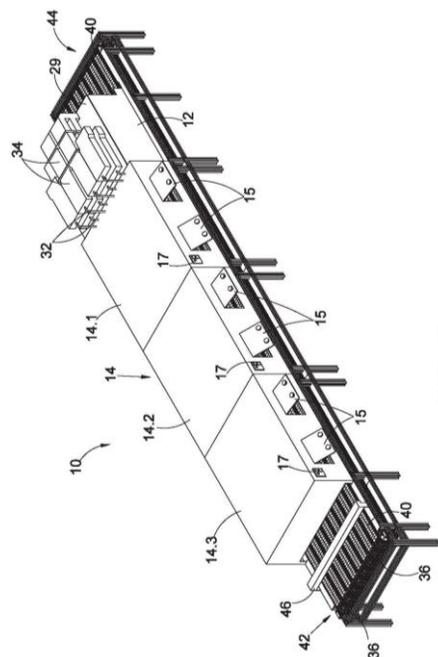


Figure 1

21: 2019/05544. 22: 8/22/2019. 43: 4/9/2021
51: A61K; A61P; C07K

71: University of Essex Enterprises Limited
72: COOPER, Chris E., REEDER, Brandon,
SILKSTONE, Gary

33: GB 31: 1704006.4 32: 2017-03-13

54: MODIFIED HAEMOGLOBIN PROTEINS

00: -

The present invention relates to modified proteins e.g. oxygen-carrying proteins, with improved or enhanced, in comparison to a reference protein, reduction of a metal ion associated with the modified protein. The present invention also relates to methods of using such modified proteins and compositions comprising such proteins e.g. in therapy.

21: 2019/06123. 22: 9/17/2019. 43: 5/24/2021
51: E21B

71: BISCHOFF, NICOLAS JACOBUS, HAMANN,
MARIUS HUGO

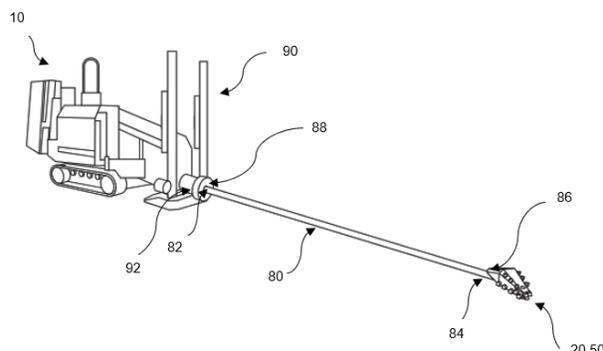
72: BISCHOFF, NICOLAS JACOBUS

54: DRILL ASSEMBLY AND METHOD OF USING SAME

00: -

A drill assembly is disclosed for drilling elongate relatively shallow-to-deep horizontal holes through stone and stone-like materials, cement, sand, and clay, where structures above ground surface need to

remain intact. The invention also extends to a method of using such drill assembly in underground drilling operations and to a method of manufacturing same.



21: 2019/06662. 22: 09/10/2019. 43: 4/23/2021

51: A61K; A61P

71: DAEWOONG PHARMACEUTICAL CO., LTD.,
LIAONING DAEWOONG PHARMACEUTICAL CO.,
LTD.

72: CHANG, Ye, LI, Qing Ri, SEOL, Sang Ho, LI,
Tie, TONG, Chao

33: CN 31: 201710240597.0 32: 2017-04-13

54: SUSPENSION COMPRISING ALUMINUM HYDROXIDE AND MAGNESIUM HYDROXIDE AND PREPARATION METHOD THEREFOR

00: -

The present invention provides a suspension comprising aluminum hydroxide and magnesium hydroxide and a preparation method therefor. An aqueous suspension composition according to the present invention ensures an excellent settling rate by using mixed suspending agents with a particular composition, so that insoluble aluminum hydroxide and magnesium hydroxide do not settle easily, form no cakes, and are easily re-dispersed. The aqueous suspension composition having an excellent settling rate not only has physical stability but forms a uniform dispersion system, thereby ensuring reproducibility or validity of bioavailability. Furthermore, the aqueous suspension composition according to the present invention provides an excellent texture, thereby increasing the drug compliance of a patient.

21: 2019/06768. 22: 10/14/2019. 43: 3/30/2021

51: C21D

71: voestalpine Schienen GmbH

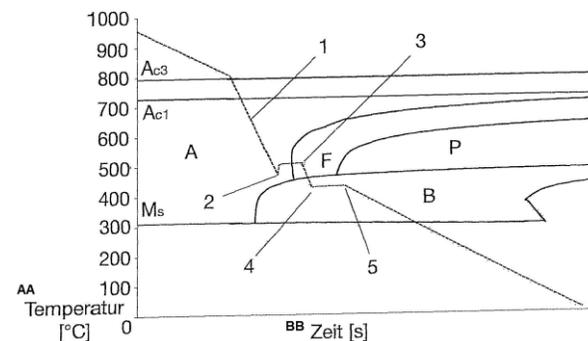
72: KAMMERHOFER, Christoph, BRANTNER, Hans Peter

33: AT 31: A 240/2017 32: 2017-06-07

54: TRACK PART AND METHOD FOR PRODUCING A TRACK PART

00: -

The invention relates to a track part, particularly a low-alloy steel rail for rail vehicles. Said steel comprises, in the rail head of the track part, a ferrite portion of 5-15 vol. %, an austenite portion of 5-20 vol. %, a martensite portion of 5-20 vol. %, and a portion of carbide-free bainite of 55-75 vol. %.



21: 2019/06821. 22: 10/16/2019. 43: 4/9/2021

51: A61K; C07K

71: Amgen Inc.

72: BENNETT, Brian D., KING, Chadwick T., PHILLIPS, Jonathan

33: US 31: 62/512,805 32: 2017-05-31

54: ANTI-JAGGED1 ANTIGEN BINDING PROTEINS

00: -

Methods of treating conditions related to lung disease using an antigen binding protein specific for the Jagged1 polypeptide are provided.

FIG. 20A
Nasopharynx

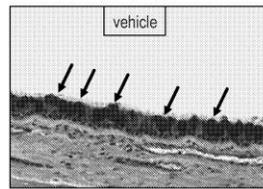


FIG. 20B
Trachea

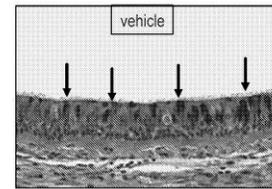


FIG. 20C
Bronchus

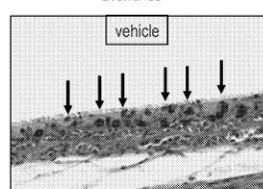


FIG. 20D
Nasopharynx

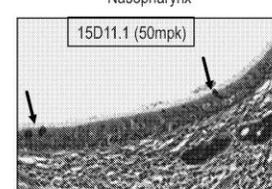


FIG. 20E
Trachea

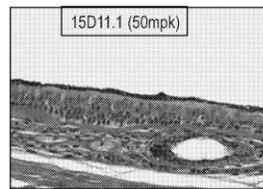
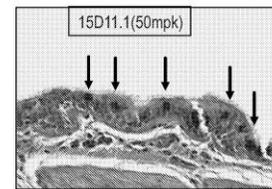


FIG. 20F
Bronchus



21: 2019/06848. 22: 10/17/2019. 43: 4/23/2021

51: A61K; C07D

71: ST Pharm Co., Ltd.

72: KIM, Bong Jin, LEE, Ill Young, KIM, Jae Hak, SHIN, Hong Suk, SON, Jong Chan, LEE, Chong-Kyo, KIM, Kyungjin, KIM, Uk-il, NAM, Hwa Jung

54: NOVEL PYRROLOPYRIDINE DERIVATIVE, METHOD FOR PRODUCING SAME, AND USE THEREOF

00: -

The present invention relates to a novel pyrrolopyridine derivative represented by chemical formula I, a racemate thereof, a stereoisomer thereof, a pharmaceutically acceptable salt thereof, and a method for producing same. A compound represented by chemical formula I below has high selectivity and biological activity against the human immunodeficiency virus (HIV), while having low toxicity, thereby being useful as a therapeutic agent for a viral infection, particularly an HIV infection.

21: 2019/06877. 22: 10/18/2019. 43: 4/14/2021

51: A61K; C07B; C07D

71: Merck Patent GmbH

72: MOSER, Rudolf, GROEHN, Viola, MUELLER, Cristina, SCHIBLI, Roger, AMETAMEY, Simon, BOSS, Silvan

33: EP(DE) 31: 17161884.6 32: 2017-03-20

54: ISOMERICALLY PURE 18F-LABELLED TETRAHYDROFOLATES

00: -

The present invention is directed towards isomerically pure ¹⁸F-labelled (6S)-or (6R)-5-methyltetrahydrofolate radiopharmaceuticals, wherein the phenyl group within the folate structure, has been replaced by an ¹⁸F-labelled N-heterocycle, for use in diagnostic imaging of a cell or population of cells expressing a folate-receptor in vitro or in vivo or for use in monitoring of cancer or inflammatory and autoimmune diseases and therapy thereof.

21: 2019/06878. 22: 10/18/2019. 43: 4/14/2021

51: A61K

71: Johnson & Johnson Consumer Inc.

72: KOLL, Gregory, MCNALLY, Gerard, SZYMCZAK, Christopher E.

33: US 31: 15/463,609 32: 2017-03-20

54: PROCESS FOR MAKING TABLET USING RADIOFREQUENCY AND LOSSY COATED PARTICLES

00: -

In one aspect the present invention features a process for making a tablet comprising the step of applying radiofrequency energy to a powder blend comprising lossy coated particles and at least one pharmaceutically active agent to sinter said powder blend into a tablet, said lossy coated particles comprising a substrate having a Q value of greater than 100 that is at least partially coated with a lossy coating comprising Hydrogenated Starch Hydrolysate.

21: 2019/06884. 22: 18/10/2019. 43: 5/14/2021

51: F16L

71: JINDAL SAW LTD

72: SHRIVASTAVA, Anurag, RAJASEKARAN, V, BOSE, Partha, SUBRAMONIAN, K

33: IN 31: 201711009888 32: 2017-03-21

54: POSITIVE LOCK SYSTEM FOR RESTRAINED JOINTS OF DUCTILE IRON SPUN PIPES AND FITTINGS

00: -

This present invention relates to novel positive lock system for restrained joints of ductile iron spun pipes and fittings which can take all the thrust loads produced due to transmitting fluids pressure and provide certain angular deflections to the axis of two pipes. For ductile iron pipe to be joined, a socket and

a spigot sections are provided in pipes. For joining plain end is inserted in bell shape end. As the water pressure surges, the joint tends to disengage due to increasing axial loads. To take these axial loads, a circumferential chamber is provided in bell shape end and plain end is provided with a weld bead of suitable size. Axial forces generated due to water pressure is transmitted to pipe socket through welding via locking segments. Locking segments are inserted in circumferential chamber and they stay between chamber and welding bead.

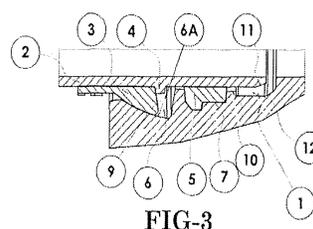


FIG-3

21: 2019/06954. 22: 10/22/2019. 43: 4/14/2021

51: C07K

71: Eli Lilly and Company

72: ATWELL, Shane Krummen, OBUNGU, Victor H., VENDEL, Andrew Charles

33: US 31: 62/508,510 32: 2017-05-19

54: BTLA AGONIST ANTIBODIES AND USES THEREOF

00: -

Antibodies which bind BTLA, and methods of using same, are provided, said antibodies are useful as agents for treating conditions associated with autoimmune disease including treating lupus.

21: 2019/07030. 22: 10/24/2019. 43: 4/23/2021

51: B61L

71: GE Global Sourcing LLC

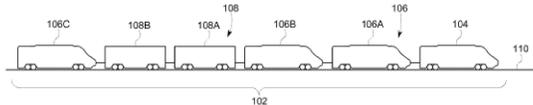
72: KULKARNI, Raghav Shrikant, DOMINGOS, Cesar, MUDIAM, Vinaykanth V., BLYTHE, Neil Xavier, GALLAGHER, Shawn, LORINGER, Daniel, LOPES, Pedro Francis, TILAK, Vinayak, MISCHLER, James Robert, LACY, Patricia Sue, MCELHANEY, Kevin, MAJEWski, Michael, OTTIKUTTI, Pradheepam

33: US 31: 62/491,765 32: 2017-04-28

54: MONITORING SYSTEM FOR DETECTING DEGRADATION OF A PROPULSION SUBSYSTEM

00: -

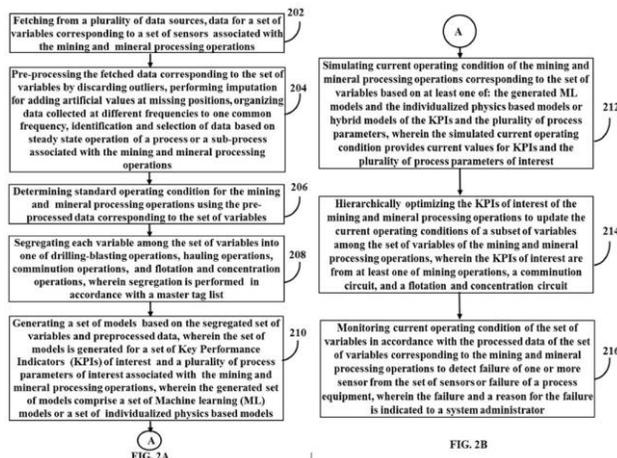
A system detects a parameter and generates a first trip plan to automatically control the vehicle according to the first trip plan. A controller is connected to a sensor and configured to receive the parameter. The controller is configured to generate a new trip plan or modify the first trip plan into a modified trip plan based on at least one of a cumulative damage or an end of life of a propulsion subsystem component. The new trip plan or the modified trip plan is configured, during operation of the vehicle according to the new trip plan or the modified trip plan, for at least one of an adjustment in velocity or avoiding one or more operating conditions of the vehicle, relative to the first trip plan.



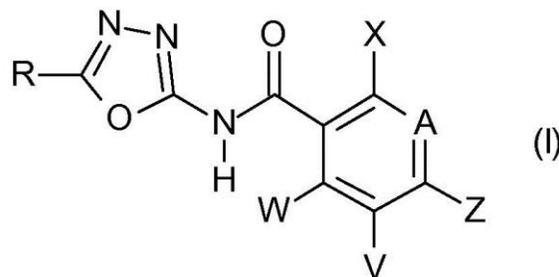
21: 2019/07051. 22: 10/25/2019. 43: 5/12/2021
 51: G06F; G06Q
 71: Tata Consultancy Services Limited
 72: RUNKANA, Venkataramana, NADIMPALLI, Nagaravi Kumar Varma, PAREEK, Aditya, MASAMPALLY, Vishnu Swaroopji
 33: IN 31: 201821040541 32: 2018-10-26
54: METHOD AND SYSTEM FOR ONLINE MONITORING AND OPTIMIZATION OF MINING AND MINERAL PROCESSING OPERATIONS
 00: -

Monitoring and analysis of plurality of operations in mining and mineral processing is critical to achieve optimized performance. Existing tools are specific to one or other individual operations and this individuality introduces limitations for end to end monitoring of entire mining to mineral processing operations. Method and system for online monitoring and optimization of mining and mineral processing operations providing an integrated approach utilizing short-term mining plan data, information generated using established drill and blast design software, simulation models of fragmentation, crushing, screening, grinding and flotation to arrive at an optimized charge plan and set points for controllers is disclosed. The proposed method and system improves key performance indicators such as cost of mining operations, specific energy consumption in comminution circuit, maximizes yield of desired particle size, and maximizes grade and recovery of

mineral of interest while considering operational constraints.



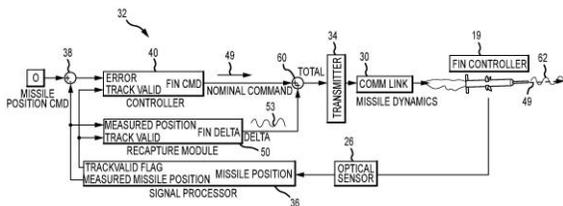
21: 2019/07150. 22: 10/29/2019. 43: 4/14/2021
 51: A01N; C07D
 71: Bayer CropScience Aktiengesellschaft
 72: KÖHN, Arnim, AHRENS, Hartmut, WALDRAFF, Christian, BRAUN, Ralf, LINDELL, Stephen David, MACHETTIRA, Anu Bheemaiah, GATZWEILER, Elmar, ROSINGER, Christopher Hugh, DIETRICH, Hansjörg
 33: EP(DE) 31: 17163727.5 32: 2017-03-30
54: SUBSTITUTED N-(1,3,4-OXADIAZOLE-2-YL)ARYL CARBOXAMIDES AND THE USE THEREOF AS HERBICIDES
 00: -
 Disclosed are N-(1,3,4-oxadiazole-2-yl)aryl carboxamides of formula (I) or the salts (I) thereof as well as the use thereof as herbicides.



21: 2019/07232. 22: 10/30/2019. 43: 4/14/2021
 51: F41G
 71: Raytheon Company
 72: PAUTLER, Brian D.
 33: US 31: 15/621,484 32: 2017-06-13

54: RECAPTURE OF REMOTELY-TRACKED COMMAND GUIDED VEHICLE INTO THE TRACKER'S FIELD-OF-VIEW

00: - Upon loss of a valid track of a remotely-sensed command guided vehicle, a delta actuator command including an orthogonal component orthogonal to the straight-line path is generated as a next sample of a time-based alternating signal. The time-based delta actuator command is added to the nominal actuator command, which is "held" upon loss of valid track, to maneuver the vehicle in first and second orthogonal directions back and forth across the straight-line path to increase an area of vehicle motion relative to the tracker's FOV. This increases the likelihood of recapture of the vehicle given vehicle motion after track is broken. The penalty is a reduction in energy efficiency. In certain embodiments, this is accomplished without modification to guidance system hardware or the existing tracking valid or invalid guidance algorithms.



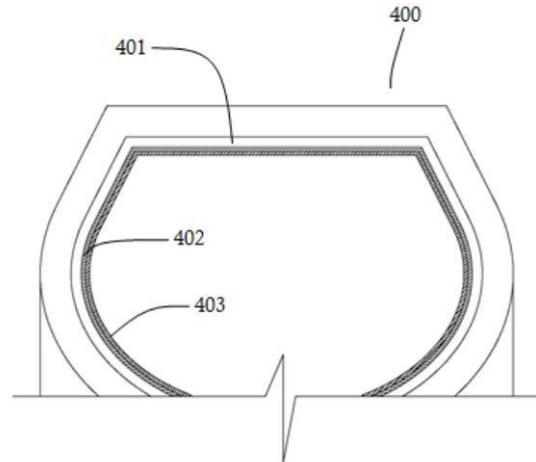
21: 2019/07374. 22: 06/11/2019. 43: 4/23/2021
51: C08J

71: PANDA, Sameer
72: PANDA, Sameer, PANDA, K. N.
33: IN 31: 201741017079 32: 2017-05-16

54: A PROCESS FOR MANUFACTURING TUBELESS TYRE HAVING INTEGRATED ENVELOPE(S) AND A PRODUCT THEREOF

00: - The present invention relates to a manufacturing process of envelope(s) integrated tubeless tyre. More specifically, the invention provides a manufacturing process for integrating envelope(s) to accommodate sealant, coolant, etc. in a tubeless tyre. The invention aims to provide a manufacturing process that overcomes the drawbacks and enables effective and efficient integration of envelope(s) to accommodate sealant, coolant, etc. in a tubeless tyre. The manufacturing process of envelope(s)

integrated tubeless tyre is limited to high quality semi vulcanized tubeless tyres and envelope(s) made as per specification for undergoing further manufacturing processes. Though the rubber of the tyre and envelope(s) is semi-vulcanised and ready to use, still they are soft with some flowability for superior grip and further processing.

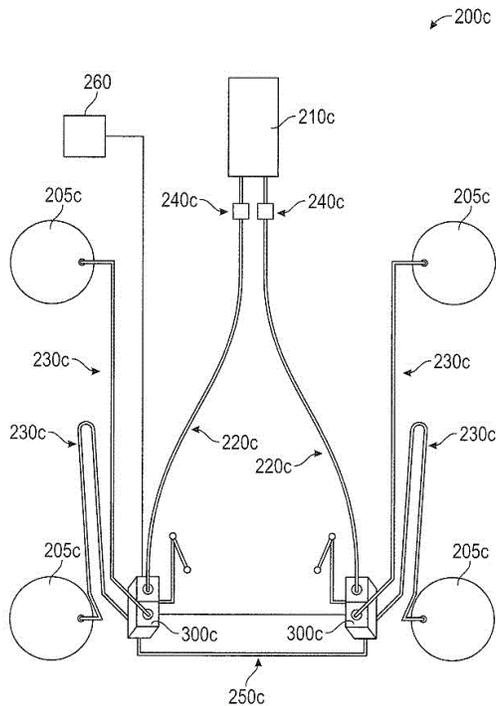


21: 2019/07423. 22: 08/11/2019. 43: 4/14/2021
51: B60G; F15B; F16K
71: BASE AIR MANAGEMENT LIMITED
72: VAUGHAN, Matthew, CALAWAY, Joseph, LEWIS, David, Bryan, ARRANTS, George
33: US 31: 62/520,918 32: 2017-06-16
33: US 31: 62/573,587 32: 2017-10-17
33: US 31: 62/626,373 32: 2018-02-05

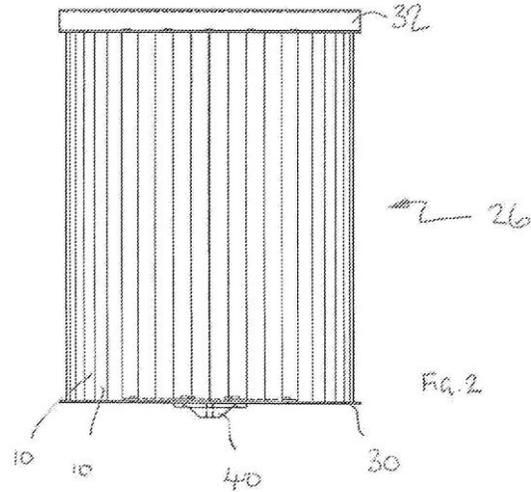
54: SYMMETRICALLY DYNAMIC EQUALIZED VOLUME AND PRESSURE AIR MANAGEMENT SYSTEM

00: - An air management system for a vehicle having a first pneumatic circuit and a second pneumatic circuit, in which the first and second pneumatic circuits are pneumatically connected in a neutral position via a cross-flow mechanism. The first pneumatic circuit includes a first leveling valve configured to adjust independently the height of a first side of the vehicle. The second pneumatic circuit includes a second leveling valve configured to adjust independently the height of a second side of the vehicle. The first and second leveling valves are configured to establish pneumatic communication between the first and second pneumatic circuits

when the first leveling valve is not independently adjusting the height of the first side of the vehicle and the second leveling valve is not independently adjusting the height of the second side of the vehicle.



transmissive material (12) of each tubular lighting element is arranged facing the exterior of the annular array and the heat sink (17) of each tubular lighting element faces the interior of the array and is connected to the plate (30).



21: 2019/07433. 22: 11/8/2019. 43: 4/14/2021
 51: F21K; F21S; F21V
 71: Lunar Lighting Pty Ltd
 72: OSSOLINSKI, George
 33: AU 31: 2017901307 32: 2017-04-10
54: IMPROVED LIGHTING APPARATUS
 00: -

A lighting array (26) comprising a plurality of elongate tubular lighting elements (10) each defining a first end and a second end. Each tubular lighting element (10) comprises an elongate housing containing a plurality of LEDs (25), the elongate housing including a light transmissive material on one side (12), and a heat sink (17) on an opposite side of the housing. The plurality of tubular elements (10) are arranged in an annular array with a first end of each of the tubular lighting elements being mounted to a first heat conductive plate (30), each tubular element being separated from adjacent elements in the annular array by a gap. The light

21: 2019/07477. 22: 11/7/2019. 43: 6/2/2021
 51: C12N; C12Q
 71: GONGBEI CUSTOMS TECHNOLOGY CENTRE
 72: Baozheng LUO, Jianhong SHAO, Caihua SHA, Xiuyun LIAO, Fuzhen ZHAO, Xuan CHEN, Haichao HUANG
 33: CN 31: 201910794270.7 32: 2019-08-27
54: PRIMER PROBE SET FOR IDENTIFYING IVORY, APPLICATION, IDENTIFICATION METHOD AND KIT THEREOF
 00: -

The prevent invention provides a primer probe set for identifying ivory, an application, an identification method and a kit thereof, belonging to the technical field of molecular detection. The primer probe set provided by the prevent invention includes a primer and a probe; the primer includes an forward primer and a reverse primer, a nucleotide sequence of the forward primer is shown in SEQ ID No. 1 and a nucleotide sequence of the reverse primer is shown in SEQ ID No. 2; and a nucleotide sequence of the probe is shown in SEQ ID No. 3. The primer probe set provided by the prevent invention may not only identify ivory sensitively, rapidly and efficiently, but also have the ability of detecting trace samples.

21: 2019/07516. 22: 11/13/2019. 43: 4/14/2021

51: H04W

71: NOKIA TECHNOLOGIES OY

72: NAIR, Suresh

33: US 31: 62/488,179 32: 2017-04-21

33: US 31: 15/700,940 32: 2017-09-11

54: RADIO LINK RECOVERY FOR USER EQUIPMENT

00: -

In response to a radio link failure between given user equipment and a source access node of a communication system during a data transfer operation over a control plane, a method is provided for recovering the radio link for the given user equipment through a target access node of the communication system. The radio link recovery is enabled via a mobility management node of the communication system using a non-access stratum security context previously established between the given user equipment and the mobility management node.

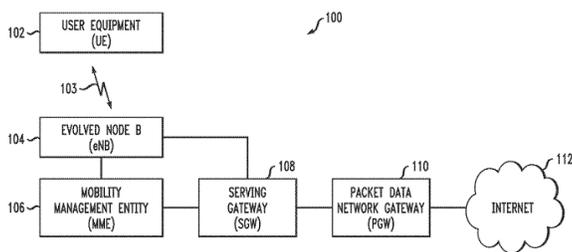
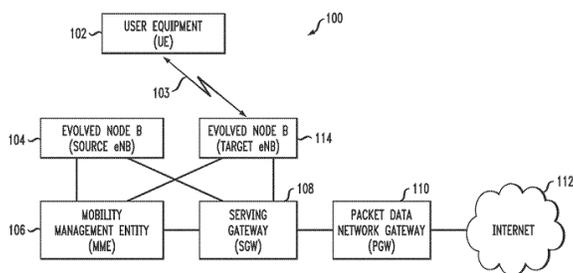


FIG. 1B



21: 2019/07572. 22: 11/15/2019. 43: 5/5/2021

51: A01G, G01D, B64C

71: SHANDONG UNIVERSITY OF TECHNOLOGY

72: HAN, Xin, YU, Jinyou, KONG, Hui, SHANG, Delin, XIE, Yingjie, FAN, Xin, KONG, Fanxia, LAN, Yubin

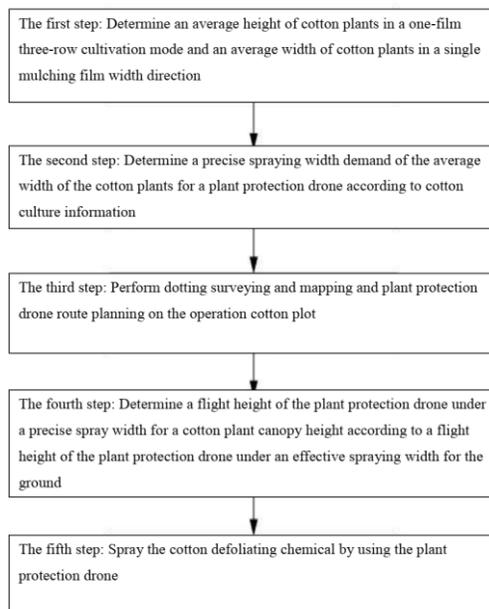
33: CN 31: 201811356625.6 32: 2018-11-15

54: METHOD FOR AERIAL SPRAYING OPERATION OF COTTON DEFOLIATING

CHEMICAL IN ONE-FILM THREE-ROW CULTIVATION MODE

00: -

The invention provides a method for aerial spraying operation of a cotton defoliating chemical in a one-film three-row cultivation mode. In a single-route operation flight process of a plant protection drone, an effective spraying width of the drone can just cover or slightly exceed an average width of cotton plants formed by three rows of plants in a width direction of a single mulching film, too much chemical liquid is not sprayed in transfer rows to cause chemical liquid waste and soil pollution, and accurate, chemical-saving and green operation is achieved. Effective spraying widths of the drone under different operation heights are in collaborative correspondence with a “one-film and three rows” equal-row spacing cotton culture mode, and agricultural machine and agricultural technique integration in the spraying process is achieved. The invention provides an operation specification that can be used for reference for aerial spraying of other pest control chemicals.



21: 2019/07643. 22: 19/11/2019. 43: 4/14/2021

51: A24F; H05B

71: PHILIP MORRIS PRODUCTS S.A.

72: MIRONOV, Oleg, COURBAT, Jerome, Christian, REEVELL, Tony, STURA, Enrico

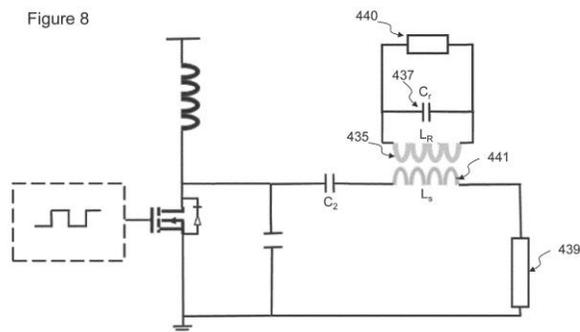
33: EP 31: 17185588.5 32: 2017-08-09

54: AEROSOL GENERATING SYSTEM WITH MULTIPLE INDUCTOR COILS

00: -

There is provided an aerosol-generating device (100) comprising a housing (110) having a chamber (120) sized to receive at least a portion of an aerosol-forming substrate, the chamber defining a heating zone. The aerosol-generating device (100) also comprises a first coil (131, 441) and a second coil (132, 435) disposed at least partially around, or adjacent to, the heating zone. The first coil is a drive coil couplable to a source of alternating current, and the second coil is a resonant coil of a resonant circuit, the second coil being inductively couplable to the first coil. In use, the coils operate to produce an enhanced magnetic field strength to efficiently heat a susceptor located within that magnetic field.

Figure 8



21: 2019/07863. 22: 11/27/2019. 43: 5/11/2021
 51: C01B; C02F
 71: NANCHANG HANGKONG UNIVERSITY
 72: Qiwu WEI, Haiyan JI, Guisheng ZENG, Qian GUAN, Bo LING, Wenzhao FU, Yong LIU, Linjuan MA

54: METHOD FOR TREATING WASTEWATER CONTAINING NITROGEN AND PHOSPHORUS AND METHOD FOR SYNTHESIZING MAGNESIUM AMMONIUM PHOSPHATE

00: -

The present invention relates to a method for treating wastewater containing nitrogen and phosphorus and a method for synthesizing magnesium ammonium phosphate. Seed crystals are added into a fluidized bed reactor, a flow rate of wastewater is controlled to make the seed crystals fluidized, the pH in the fluidized bed reactor is adjusted to an alkaline condition, a magnesium solution is added and backwater is started, the water

temperature is raised, and the wastewater is introduced continuously; the wastewater and the magnesium solution continuously react in the fluidized bed reactor, and the water temperature is lowered; an ultrasonic vibration rod is inserted into the fluidized bed reactor, the ultrasonic vibration rod is started for ultrasonic reaction, and the flow rate of the backwater is increased; the ultrasonic vibration rod is shut down and the reaction continues; and after the reaction is completed, the treated wastewater and magnesium ammonium phosphate crystal precipitate are discharged.

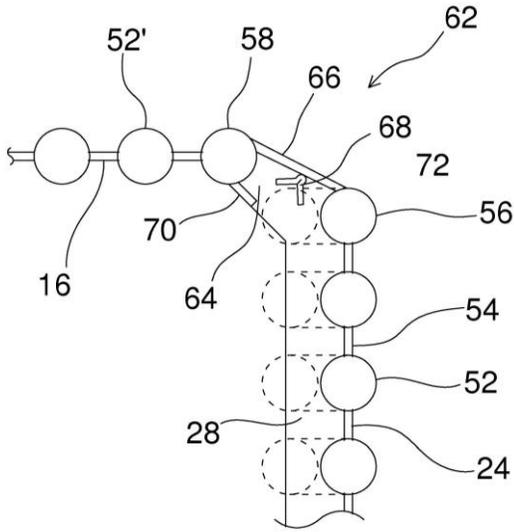
21: 2019/07970. 22: 11/29/2019. 43: 4/14/2021
 51: F22B

71: Sumitomo SHI FW Energia Oy
 72: MURPHY, John Q., LANKINEN, Pentti
 33: US 31: 15/648,491 32: 2017-07-13

54: TUBULAR WATERWALL STRUCTURE IN A FLUIDIZED BED REACTION CHAMBER AND A FLUIDIZED BED REACTION CHAMBER

00: -

A tubular waterwall structure in a fluidized bed reaction chamber, and a fluidized bed reaction chamber with such a tubular waterwall structure, the tubular waterwalls comprising horizontally adjacent first and second wall portions forming a corner structure and being constituted by vertical tubes and fins centrally attached to the tubes and having a first width, wherein the first wall portion has an outermost tube next to the corner, an upper portion defining an upper vertical plane in an upper level range and a lower portion defining a lower vertical plane in a lower level range, the lower vertical plane being shifted outwards from the upper vertical plane, wherein the lower portion has a refractory lining; the second wall portion is vertical and has an outermost tube next to the corner, wherein the outermost tube of the second wall portion is in the lower level region connected to the outermost tube of the first wall portion by a planar lower beveled corner fin having a refractory lining and a width that is greater than the first width.



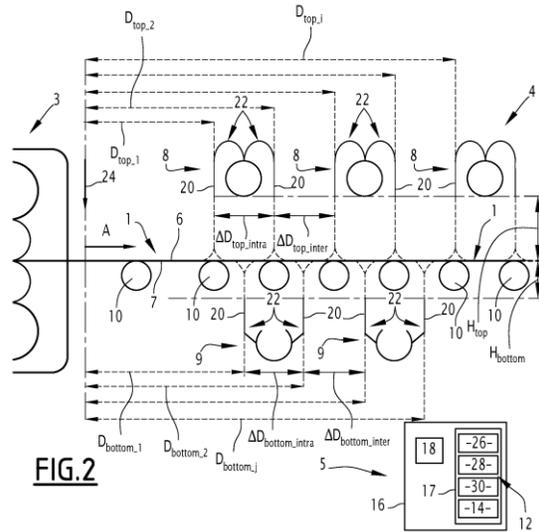
21: 2019/08038. 22: 03/12/2019. 43: 6/1/2021
 51: C08B; C08H; C08L
 71: SERUM INSTITUTE OF INDIA PRIVATE LIMITED
 72: DHERE, Rajeev Mhalasakant, PISAL, Sambhaji Shankar, ANNAMRAJU, Dattatreya Sarma
 33: IN 31: 201721015961 32: 2017-05-05
54: METHOD FOR REMOVAL OF IMPURITIES FROM BACTERIAL CAPSULAR POLYSACCHARIDE BASED PREPARATIONS

00: -
 The present invention relates to an improved process for purification of bacterial capsular polysaccharides, more specifically capsular polysaccharides of gram negative bacteria. The process comprises of concentration and dia filtration of harvest, treatment with anionic detergent and strong alkali followed by centrifugation, diafiltration and cationic detergent based precipitation of bacterial polysaccharides. The process results in significant reduction of endotoxin, protein and nucleic acid impurities thereby providing higher recovery of capsular polysaccharide with the desired O-acetyl levels. Said process is scalable, non-enzymatic, and employs fewer purification steps.

21: 2019/08157. 22: 09/12/2019. 43: 4/9/2021
 51: B21B
 71: ARCELORMITTAL
 72: JACOLOT, Ronan, HUIN, Didier, MORETTO, Christian, CORSELLO, Daniele
54: METHOD AND ELECTRONIC DEVICE FOR DETERMINING THE TEMPERATURE OF A

METAL STRIP, RELATED CONTROL METHOD, COMPUTER PROGRAM, CONTROL APPARATUS AND HOT ROLLING INSTALLATION

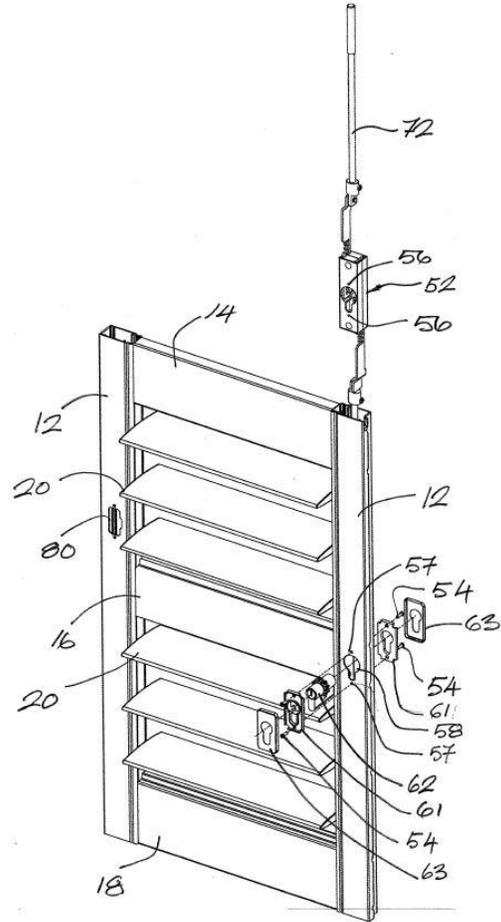
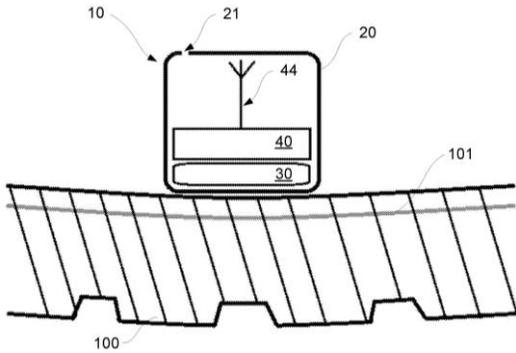
00: -
 This method for determining the temperature of a metal strip (1) inside a cooling apparatus (4) of a hot rolling installation is implemented by an electronic device (12). This method includes acquiring a temperature measure of a strip portion at a current time instant; estimating, at the current time instant, a heat flux extracted from the strip portion inside the cooling apparatus according to a thermal model, and computing a strip portion temperature at a next time instant from the acquired temperature measure and the estimated extracted heat flux. The thermal model models an air cooling of the strip portion, a coolant header cooling of the strip portion by a coolant header and a remaining coolant cooling of the strip portion, wherein for the coolant header cooling the model models both an impingement cooling of the strip portion and a parallel flow cooling of the strip portion.



21: 2019/08483. 22: 12/19/2019. 43: 4/23/2021
 51: B60C
 71: EI-Watch AS
 72: SKJERMO, Tor Öistein, BOLME, Håkon
 33: NO 31: 20171020 32: 2017-06-22
54: TIRE HEALTH SENSOR ASSEMBLY

00: -
 Tire health sensor assembly (10) for arrangement in a vehicle tire(100) formed by a housing (20) arranged for accommodating amagnet assembly

(30) formed by at least one magnet, a sensor module (40) including at least one tire pressure sensor (42), power means (43) in the form of at least one battery or capacitor and/or energy harvester (47), and a communication module (44) wherein the magnet assembly (30) and sensor module (40) are arranged at lower part of the housing (20) providing the housing (20), and accordingly the tire health sensor assembly (10), with a centre of gravity at lower part of the housing (20) which together with magnetic force of the magnet assembly (30) are arranged to self-align/correct the tire health sensor assembly (10) in relation to an inner circumferential surface of the tire (100), and attachment to a metal cord (101) of the tire (100) or metal wheel of the tire (100).

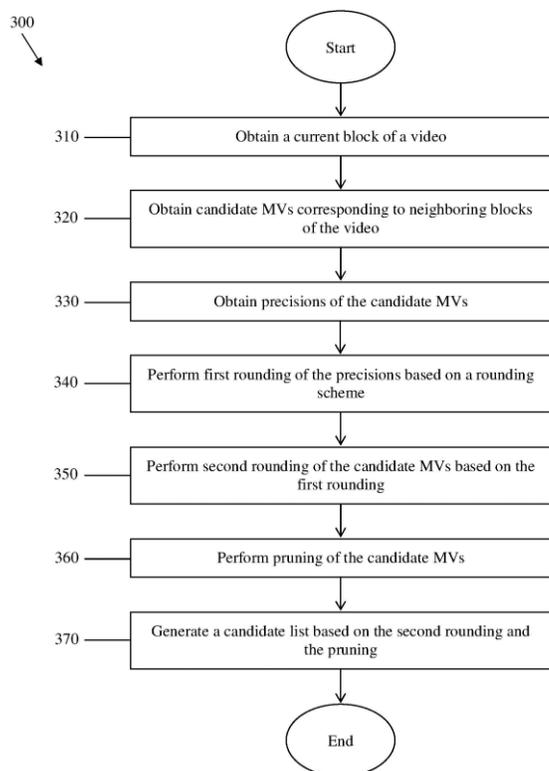


21: 2019/08506. 22: 19/12/2019. 43: 5/14/2021
 51: E06B
 71: Interior Concepts (Pty) Ltd
 72: TOSTEE, Eric Guy
 33: ZA 31: 2017/01871 32: 2017-03-16
54: LOUVRE SHUTTER SYSTEM
 00: -

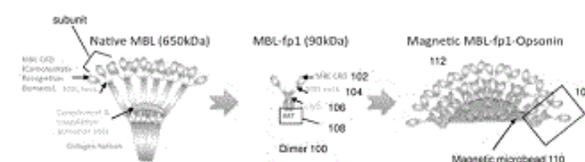
A louvre shutter comprising louvres 20 rotatably mounted in a frame on louvre axles, and a louvre drive system that, in summary, comprises a rack and pinion gear system including an externally operable rack assembly and a set of pinion gears 28 mounted to the louvre axles. The rack is externally operable rack and is reciprocally mounted in the drive system housing 42, 48. The pinion gears 28 mounted to the louvre axles are engaged with the rack such that reciprocation of the rack rotates the louvre 20 relative to the frame.

21: 2019/08548. 22: 12/20/2019. 43: 4/23/2021
 51: H04N
 71: Huawei Technologies Co., Ltd.
 72: LIU, Shan, WANG, Wei
 33: US 31: 62/518,402 32: 2017-06-12
54: Selection and Signaling of Motion Vector (MV) Precisions
 00: -

An apparatus comprises: a memory; and a processor coupled to the memory and configured to: obtain a current block of a video frame, obtain candidate MVs corresponding to neighboring blocks of the video frame, the neighboring blocks neighbor the current block, obtain precisions of the candidate MVs, perform first rounding of the precisions based on a rounding scheme, perform second rounding of the candidate MVs based on the first rounding, perform pruning of the candidate MVs, and generate a candidate list based on the second rounding and the pruning.



Such microbe-targeting molecules and/or substrates and the kits comprising the same can bind and/or capture of a microbe and/or microbial matter thereof, and can thus be used in various applications, e.g., diagnosis and/or treatment of an infection caused by microbes such as sepsis in a subject or any environmental surface. Microbe-targeting molecules and/or substrates can be regenerated after use by washing with a low pH buffer or buffer in which calcium is insoluble.



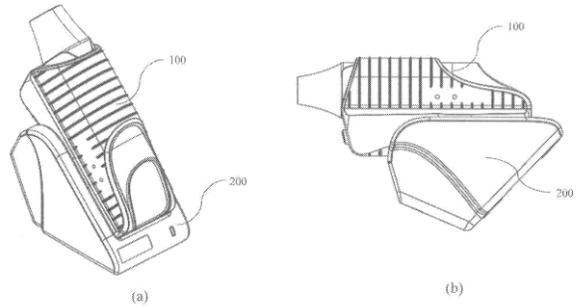
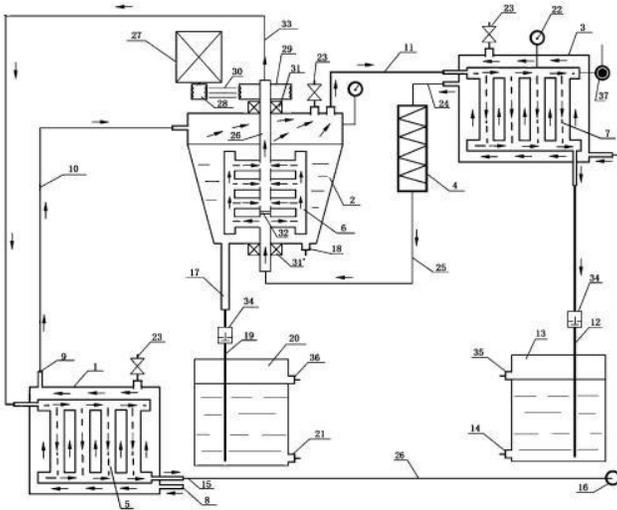
21: 2020/00103. 22: 1/8/2020. 43: 6/2/2021
 51: C02F
 71: Qilu University of Technology
 72: Zhengshun WANG, Zaiyong JIANG, Yuan WANG

33: CN 31: 201910443869.6 32: 2019-05-27
54: HIGH-EFFICIENCY ENERGY-SAVING SEWAGE LOW-PRESSURE EVAPORATION SYSTEM AND WORKING METHOD THEREOF
 00: -

The present invention relates to a high-efficiency energy-saving sewage low-pressure evaporation system and a working method thereof. The working method includes: sewage enters an air waste heat recovery device, absorbs waste heat, then passes to a low-pressure conical evaporator ; in the low-pressure conical evaporator, the sewage absorbs heat from a second heat transfer pipe rack, and turns into steam to enter a third heat transfer pipe rack; the steam turns into a condensate; the condensate enters a condensate collecting tank for recovery; cold air enters the air preheater through a circulating fan for heating; hot air enters the second heat transfer pipe rack to transfer heat to the sewage; after heat transfer, low-temperature hot air enters a first heat transfer pipe rack in the air waste heat recovery device through a hot air pipe and a waste hot air pipe, and then after heat recovery, enters the next cycle.

21: 2020/00056. 22: 06/01/2020. 43: 4/12/2021
 51: G01N; A61K; C07K
 71: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
 72: INGBER, DONALD E, SUPER, MICHAEL, WAY, JEFFREY CHARLES, CARTWRIGHT, MARK J, WATTERS, ALEXANDER, BERTHET, JULIA B, SUPER, DINAH R, ROTTMAN, MARTIN M
 33: US 31: 61/508,957 32: 2011-07-18
 33: US 31: 61/605,052 32: 2012-02-29
 33: US 31: 61/605,081 32: 2012-02-29
54: ENGINEERED MICROBE-TARGETING MOLECULES AND USES THEREOF
 00: -

Described herein are engineered microbe-targeting or microbe-binding molecules, kits comprising the same and uses thereof. Some particular embodiments of the microbe-targeting or microbe-binding molecules comprise a carbohydrate recognition domain of mannose-binding lectin, or a fragment thereof, linked to a portion of a Fc region. In some embodiments, the microbe-targeting molecules or microbe-binding molecules can be conjugated to a substrate, e.g., a magnetic microbead, forming a microbe-targeting substrate (e.g., a microbe-targeting magnetic microbead).



21: 2020/00168. 22: 10/01/2020. 43: 5/14/2021
 51: A61B; G01F
 71: CIPLA LIMITED
 72: KULKARNI, Nandan, MALHOTRA, Vidur,
 MALHOTRA, Geena, AHLUWALIA, Brinder
 33: IN 31: 201721026601 32: 2017-07-26
**54: FLOW SENSING ARRANGEMENT FOR
 SPIROMETER AND METHOD THEREOF**
 00: -

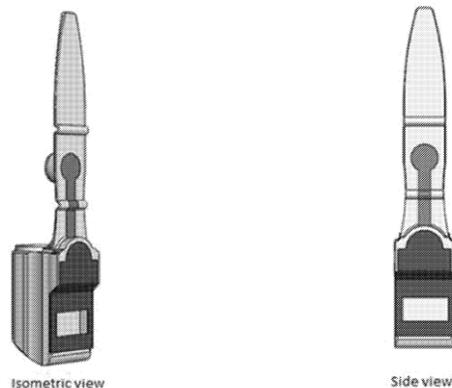
The present subject matter describes a flow-sensing arrangement within a spirometer (100). The arrangement comprises a tubular-member (202) for allowing an air-passage along a longitudinal-axis thereof. At-least two disc-shaped air-resistive elements (204) are removably-arranged within the tubular member (202) to resist the air-flow. Each of said resistive-elements comprises perforations for allowing the air-passage through the resistive-element. At-least two ports (206) extend radially outward through a wall of said tubular member (202), such that each of said two ports (206) are located within the tubular-member (202) near the resistive-elements (204) to cause determination of at least a pressure- difference there-between.

21: 2020/00171. 22: 10/01/2020. 43: 5/14/2021
 51: A61B; A61M; G06F
 71: CIPLA LIMITED

72: KULKARNI, Nandan, MALHOTRA, Geena,
 AHLUWALIA, Brinder, ZAVERI, Mohnish Jagdish
 33: IN 31: 21721014423 32: 2017-07-11
**54: ADHERENCE-TRACKING AND MONITORING
 DEVICE FOR METERED-DOSE INHALER**
 00: -

The present subject matter describes an adherence-monitoring and tracking device (100, 400) for capturing usage of a metered dose inhaler (MDI). The device (100, 400) comprises an enclosure for enclosing a metered dose inhaler (MDI), and an electro-mechanical system forming a part of enclosure to sense and log the operation of the MDI. The electro-mechanical system comprises at-least one transducer to capture one or more parameters pertaining to an operation of the MDI by the user. A microcontroller processes said captured parameters, and an output-unit renders data pertaining to operation of the MDI.

100

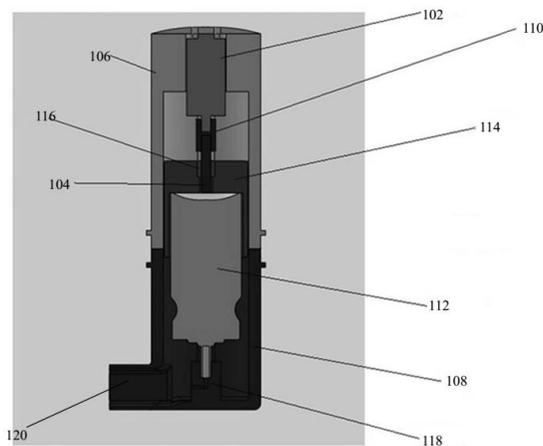


21: 2020/00172. 22: 10/01/2020. 43: 5/14/2021

51: A61M
 71: CIPLA LIMITED
 72: KULKARNI, Nandan, MALHOTRA, Vidur, MALHOTRA, Geena, AHLUWALIA, Brinder, ZAVERI, Mohnish Jagdish
 33: IN 31: 201721024441 32: 2017-07-11
54: ELECTROMECHANICAL BREATH ACTUATED INHALER

00: -
 The present subject matter refers a breath-actuated inhaler 100 that comprises a motion- generator 102 configured to render motion upon actuation by a user and an arrangement for transforming the generated motion to enable a canister 112 at undergoing translation-motion. Further, a metering-valve is operably connected to the canister 112 for causing a metered-release of the canister's contents as a spray, based upon said translation-motion.

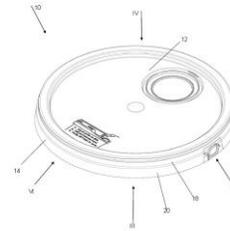
100



21: 2020/00204. 22: 1/13/2020. 43: 6/3/2021
 51: B44D; B65B; B65D; E05B; E05F
 71: Polyoak Packaging (Pty) Ltd
 72: Michael Karl LAMBRECHT, Dennis STEWART
 33: ZA 31: 2018/07959 32: 2018-11-26
54: PLASTICS LID ARRANGEMENT

00: -
 The invention discloses a plastics lid arrangement for a container, which includes upper and lower peripheral, annular outwardly disposed locking flanges, the flanges having undersides for locking engagement with the plastics lid, the lid includes a central portion and a peripheral skirt adapted to overlie the container locking flanges; the peripheral skirt dividing the peripheral skirt into a skirt upper portion located adjacent to the container upper

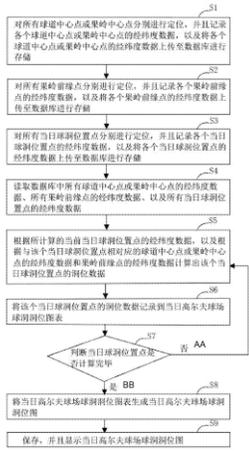
locking flange, and a lower portion located adjacent to the container lower locking flange; the skirt upper portion having inwardly disposed intermittent and/or semi-continuous locking flange segments adapted to engage the underside of the container upper locking flange; the skirt lower portion having a tear-off band or strip portion and a remaining portion, the skirt lower portion defining an inwardly disposed nearly continuous locking flange consisting of a plurality of spaced apart semi-continuous locking flange segments attached to the tear-off strip portion and a plurality of spaced-apart flange segments, the flange segments and being adapted to engage the underside of the container lower locking flange; the tear-off strip-portion having a wave-like formation, so that removal of the tear-off strip portion leaves the spaced-apart flange segments remaining and the spaced-apart flange segments removed with the tear-off strip portion.



21: 2020/00211. 22: 13/01/2020. 43: 6/3/2021
 51: G06F
 71: SHENZHEN JIAHESHUN INFORMATION AND TECHNOLOGY LTD.
 72: PAN, Jianjia, CHENG, Jian, CHEN, Xiaofeng
 33: CN 31: 201710147170.6 32: 2017-03-13
54: METHOD AND SYSTEM FOR AUTOMATICALLY GENERATING HOLE LOCATION MAP FOR GOLF COURSE

00: -
 The present invention relates to the technical field of automated measurement, disclosed herein are a method and system for automatically generating a hole location map for a golf course. The method comprises: acquiring latitude and longitude data for all fairway central points or green central points, latitude and longitude data for all green front edge points and latitude and longitude data for all hole location points of the day; on the basis of the longitude and latitude data of the hole location points of the day, and the longitude and latitude data for the

fairway central points or green central points and the green front edge points which correspond to the hole location points of the day, calculating hole location data for each hole location point of the day; and generating a hole location map for the golf course for the day according to the hole location data for each hole location point of the day. The method is highly automated, eliminating the need to manually measure hole locations and manually fill in a hole location map for a golf course, which not only saves time and manpower, also effectively avoids the large errors of manual measurement as well as erroneously recording deviation values and erroneously filling in the hole location map, and greatly improving the accuracy of location positioning.



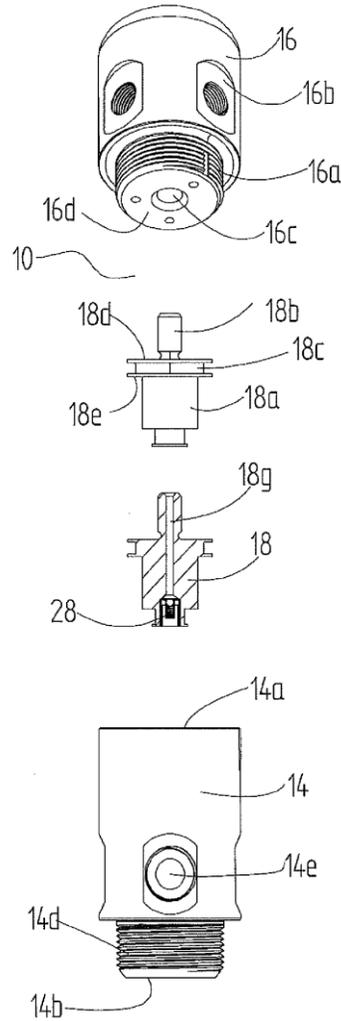
- S1 Respectively position all fairway central points or green central points, record latitude and longitude data for each fairway central point or green central point, and upload the latitude and longitude data for each fairway central point or green central point to be stored in a database
- S2 Respectively position all green front edge points, record latitude and longitude data for each green front edge point, and upload the latitude and longitude data for each green front edge point to be stored in the database
- S3 Respectively position all hole location points of the day, and record latitude and longitude data for each hole location point of the day, and upload the latitude and longitude data of each hole location point of the day to be stored in the database
- S4 Read the latitude and longitude data for all fairway central points or green central points, all green front edge points, and all hole location points of the day in the database
- S5 On the basis of the calculated longitude and latitude data of a current hole location point of the day, and the longitude and latitude data for fairway central points or green central points and the green front edge points which correspond to said hole location point of the day, calculate hole location data for said hole locations of the day
- S6 Record the hole location data of said hole location point of the day into a hole location chart of a golf course
- S7 Determine whether the computation of hole location points of the day is complete for said hole locations of the day
- S8 Generate a hole location map of the golf course of the day from the hole location chart of the day
- S9 Save, and display the hole location map of the golf course of the day
- AA No
- BB Yes

图 1

21: 2020/00328. 22: 17/01/2020. 43: 5/14/2021
 51: A62C; F16K
 71: REACTON FIRE SUPPRESSION LIMITED
 72: KOUTSOS, Theodoros, BARNES, Edward Michael John
 33: GB 31: 1705415.6 32: 2017-04-04
 33: GB 31: 1718605.7 32: 2017-11-10
54: AUTOMATIC VALVE
 00: -

The present invention provides an automatic valve comprising a body configured to receive a piston axially therein, the piston being movable within the body between a first axial position in which the piston is configured to seal a valve opening when pneumatic pressure is applied to the piston and a second axial position in which the piston is configured to be withdrawn from the valve opening such that a fire suppression agent can enter the

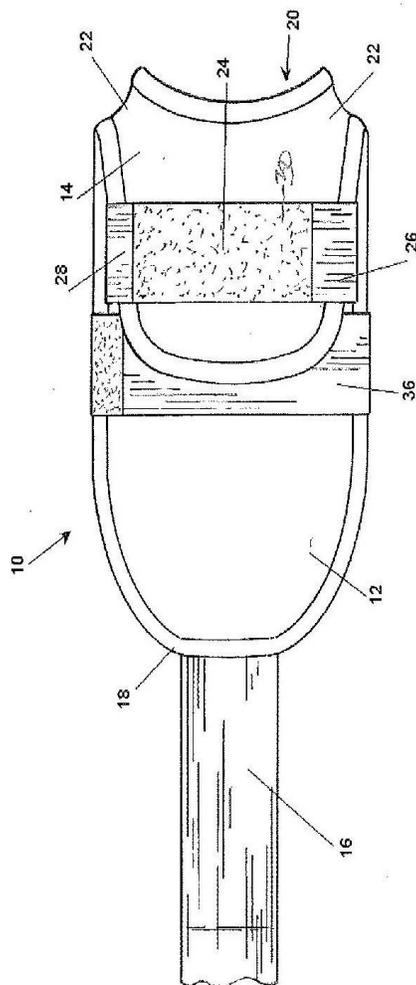
valve body through the valve opening, wherein the piston comprises a channel longitudinally therethrough and a check valve positioned within the channel such that fluid can enter the check valve in a first longitudinal direction but not in a second longitudinal direction.



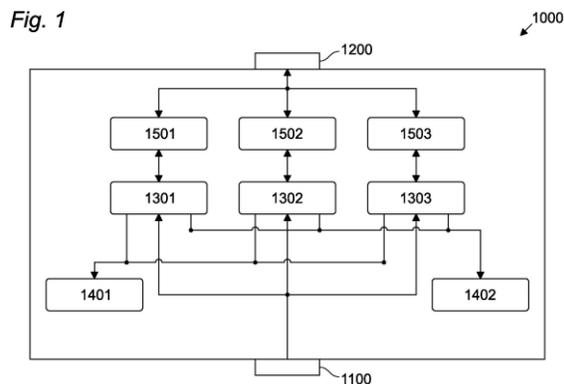
21: 2020/00475. 22: 1/22/2020. 43: 5/24/2021
 51: A63B
 71: Zokufika Ntshaba
 72: Zukofika Ntshaba
 33: ZA 31: 2018/07798 32: 2018-11-20
54: GYMNASTIC APPARATUS
 00: -

A gym-nastic unit to enable the user to carry out exercises of the leg, the unit consisting of a foot portion having a front part and a rear or ankle part, securing means for securing the ankle or lower part of the leg of a person using the unit to the

ankle part, an elongated connector connected to the foot portion, the arrangement being such that with the foot of the user on the foot portion and the ankle part secured to the ankle or lower leg of the user, the user can hold of the elongated means for carrying out exercises.



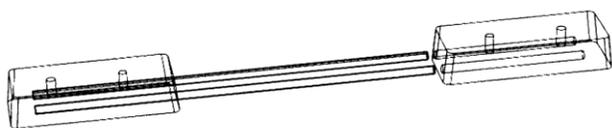
thus obtaining a filtered gas, an output (1200) for the filtered gas, a vacuum generator (1401, 1402) for generating a vacuum inside the reactor (1301, 1302, 1303), where the vacuum generator (1401, 1402) is configured so as to apply a first predetermined vacuum value (V1) in a first vacuum phase (T2) and so as to apply a second predetermined vacuum value (V2) in a second vacuum phase (T3); the filtering system (1000, 3000, 4000) further comprising a flow controller (1501, 1502, 1503) connected at the output to the reactor (1301, 1302, 1303), where the flow controller (1501, 1502, 1503) is configured so as to block the introduction of the filtered gas into the reactor (1301, 1302, 1303) during the first vacuum phase (T2), and where the flow controller (1501, 1502, 1503) is configured so as to allow the introduction of the filtered gas and/or a second gas into the reactor (1301, 1302, 1303), starting from the output (1200) during the second vacuum phase (T3).



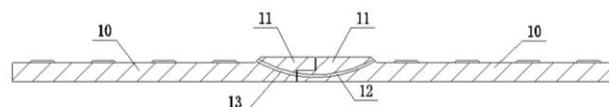
21: 2020/00637. 22: 1/30/2020. 43: 4/9/2021
 51: B01D
 71: Ecospray Technologies S.r.l.
 72: ARCHETTI, Maurizio, GALANTI OCCULTI, Leandro
 33: IT 31: 102017000074132 32: 2017-07-03
54: A GAS-FILTERING SYSTEM AND METHOD
 00: -
 The present invention relates to a gas-filtering system (1000, 3000, 4000, 5000, 6000) comprising: an input (1100) for the gas, a reactor (1301, 1302, 1303) for filtering the gas at the input (1100) and

21: 2020/00705. 22: 03/02/2020. 43: 5/11/2021
 51: E01B
 71: CHINA RAILWAY SIYUAN SURVEY AND DESIGN GROUP CO., LTD.
 72: SUN, Li, WANG, Senrong, YANG, Yanli, ZHU, Bin, LI, Qihang, ZHANG, Jie, GAO, YONGJIE
 33: CN 31: 201710558316.6 32: 2017-07-10
54: ASSEMBLED STEEL PIPE CONCRETE BI-BLOCK RAILWAY SLEEPER
 00: -
 Provided is an assembled steel pipe concrete bi-block railway sleeper, comprising a first concrete railway sleeper block (1), a second concrete railway sleeper block (2) and a plurality of matched steel pipe concrete columns (3), which the above are all

processed independently. These components stay separate in a transportation link and a warehousing link, and after being conveyed to a construction site together, the steel pipe concrete columns (3) and two concrete railway sleeper blocks are assembled into a whole by means of threads or bonding slurry. Not only can the processes of fixing and assembling be realized rapidly with high precision at the construction site, but it can also be ensured that the railway sleeper is provided with a good form and position maintaining ability, while significantly reducing the use of the connecting members.



body, and a bolt hole penetrating through the surface of the second connecting body is provided at a longitudinal end face of the recessed part. With the optimized and improved connecting structure being provided on the ballastless track base plate, the problem that a base plate is prone to being deformed when under stress and arches upward during connection can not only be overcome, but the connecting structure is also simple in structure, convenient to construct, and reliable and simple to disassemble, assemble and maintain in the later period.



21: 2020/00706. 22: 03/02/2020. 43: 5/11/2021
 51: E01B
 71: CHINA RAILWAY SIYUAN SURVEY AND DESIGN GROUP CO., LTD.
 72: SUN, Li, WANG, Senrong, YANG, Yanli, ZHU, Bin, LI, Qihang, ZHANG, Jie, GAO, YONGJIE
 33: CN 31: 201710557865.1 32: 2017-07-10
 33: CN 31: 201710557881.0 32: 2017-07-10
 33: CN 31: 201710557894.8 32: 2017-07-10
54: BALLASTLESS TRACK BASE PLATE CONNECTING STRUCTURE AND BALLASTLESS TRACK HAVING SAME

00: -
 Provided are a ballastless track base plate connecting structure and a ballastless track having the same. The connecting structure understood a first connecting body and a second connecting body, where the first connecting body is provided at an end part of a first ballastless track base plate and understood a protruding part protruding along the longitudinal direction, and a bolt hole penetrating through the surface of the first connecting body is provided at a longitudinal end face of the protruding part; and the second connecting body is provided at an end part, correspondingly connected to the first ballastless track base plate, of a second ballastless track base plate, and a recessed part extending along the longitudinal direction and matching the protruding part is provided on the second connecting

21: 2020/00889. 22: 11/02/2020. 43: 6/3/2021
 51: A61K
 71: SERUM INSTITUTE OF INDIA PVT LTD.
 72: Rakesh Kumar, SHARMA, Inder Jit, SHITOLE, Anil Vyankatrao, DODDAPANENI, Manohar, SHARMA, Hitt Jyoti
 33: IN 31: 201721025513 32: 2017-07-18
54: AN IMMUNOGENIC COMPOSITION HAVING IMPROVED STABILITY, ENHANCED IMMUNOGENICITY AND REDUCED REACTOGENICITY AND PROCESS FOR PREPARATION THEREOF

00: -
 An immunogenic composition comprising of Diphtheria toxoid antigen (D), tetanus toxoid (T) antigen, Hepatitis B surface antigen (HBsAg), inactivated whole-cell B. pertussis (wP) antigen, Haemophilus influenzae type B (Hib) capsular saccharide conjugated to a carrier protein, Inactivated Polio Virus (IPV) antigen and additionally one or more antigens and the method of preparing the same. A fully liquid combination vaccine, showing improved immunogenicity, reduced reactogenicity and improved stability. Improved methods of formaldehyde inactivation, improved adsorption profile of Diphtheria toxoid antigen (D), tetanus toxoid (T) antigen and Hepatitis B (HepB) surface antigen adsorbed individually onto aluminium phosphate adjuvant, minimum total aluminum content (Al³⁺) and optimized concentration of 2-phenoxyethanol (2-PE) as preservative.

21: 2020/00962. 22: 14/02/2020. 43: 4/22/2021
 51: G02F; H04B; G02B
 71: TERAHERTZ GROUP LTD.
 72: GABBAI, ERAN
 33: US 31: 62/535,980 32: 2017-07-24
54: HIGH FREQUENCY OPTICAL SWITCH AND FABRICATION METHODS THEREOF
 00: -
 Optical switch and modulator devices are described, usable for Terahertz data communication rates. The device comprising an optically transmissive substrate configured for propagating electromagnetic radiation therethrough and a metamaterial arrangement optically coupled to said substrate. The metamaterial arrangement comprises at least one layer of metamaterial particles optically coupled to at least some portion of said optically transmissive substrate, and at least one nanomesh layer made of at least one electrically conducting material placed over at least some portion of the at least one metamaterial layer. The at least one nanomesh layer configured to discharge electrons into the at least one metamaterial layer responsive to electromagnetic or electric signals applied to the metamaterial arrangement, and the at least one metamaterial layer configured to change from an optically opaque state into an optically transparent state upon receiving the discharged electrons, to thereby at least partially alter electromagnetic radiation passing through the substrate.

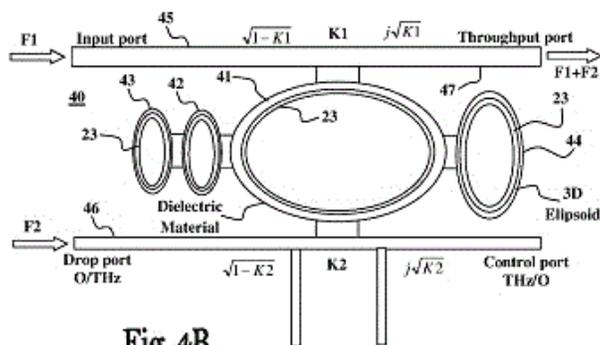


Fig. 4B

21: 2020/01166. 22: 25/02/2020. 43: 6/9/2021
 51: G01F; G01P
 71: NANTONG UNIVERSITY

72: HUA, Liang, SHEN, Bingbing, GU, Juping, JIANG, Ling, WANG, Shengfeng, ZHAO, Fengshen, JI, Ting, CHENG, Tianyu, LIU, Ming, SHEN, Jie
 33: CN 31: 201710796565.9 32: 2017-09-06
54: AVERAGE FLUID FLOW RATE MEASUREMENT SYSTEM IN STRAIGHT-LINE DISTANCE
 00: -
 An average fluid flow rate measurement system in a straight-line distance, comprising: a controller, a motor, ultrasonic wave receiving ends A and B, an ultrasonic wave emitting end C, photoelectric receiving ends A' and B', and a photoelectric emitting end C'. The ultrasonic wave receiving end A and the photoelectric receiving end A' are located at the same position. The ultrasonic wave receiving end B and the photoelectric receiving end B' are located at the same position. The ultrasonic wave emitting end C and the photoelectric emitting end C' are located at the same position and used to generate and emit a signal. The position of the ultrasonic wave receiving end A and the position of the ultrasonic wave receiving end B are fixed, are located at the same end of the measurement and are located in the same horizontal straight line; a straight line AC where the ultrasonic wave receiving end A and the ultrasonic wave emitting end C are located is always perpendicular to a fluid flow rate v , Angle CAB = 90 degrees, and the point C can move freely on the straight line AC. The system is simple in structure and good in practicality, and has a high measurement precision for fluid flow rate.

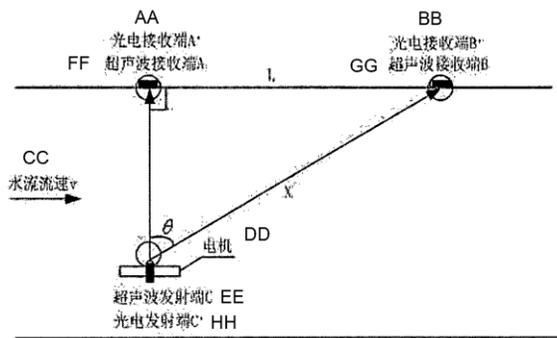
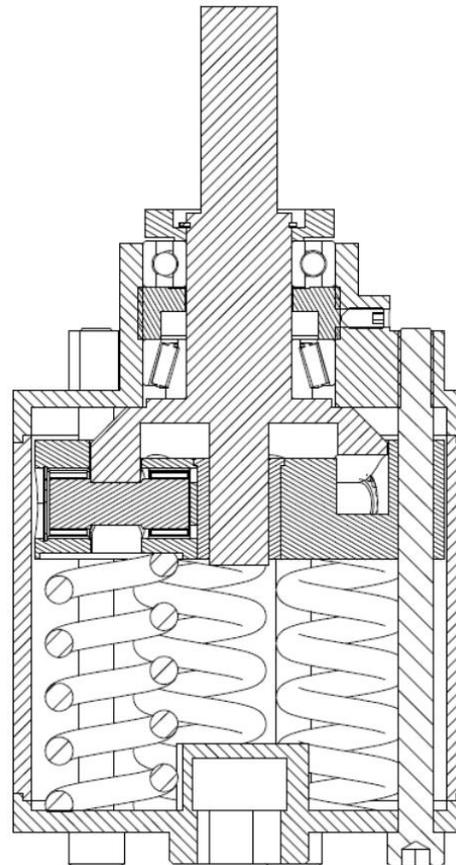


图 1

- AA PHOTOELECTRIC RECEIVING END A'
- BB PHOTOELECTRIC RECEIVING END B'
- CC FLOW RATE OF WATER
- DD MOTOR
- EE ULTRASONIC WAVE EMITTING END C
- FF ULTRASONIC WAVE RECEIVING END A
- GG ULTRASONIC WAVE RECEIVING END B
- HH PHOTOELECTRIC EMITTING END C'



SECTION A-A

21: 2020/01241. 22: 2/27/2020. 43: 4/23/2021
51: B23B; F16B

71: CONAX MACHINE SOLUTIONS (PTY) LTD
72: JOHANNES JACOBUS NAUDE

33: ZA 31: 2019/00553 32: 2019-01-28
33: ZA 31: 2019/06118 32: 2019-09-17

54: TORQUE SPINDLE SUITABLE FOR TORQUEING ROOF BOLTS

00: -

The invention provides a torque spindle suitable for torqueing roof bolts. The torque spindle comprises a cam unit including a rotatable cam shaft and a face cam disc which is connected to the cam shaft and which includes a continuous cyclic curvilinear cam face that defines a series of alternating cam lobes and cam valleys; a cam follower unit including a number of compression springs that are biased towards the cam unit; and a number of radially extending cam rollers that are displaceable on the cam face through rotation of the cam shaft such that the compression springs forces the cam rollers into contact with the cam face while they move through the cam lobes and cam valleys. The arrangement is such that the cam unit oscillates relative to the cam follower unit rotation of the cam shaft, while a continuous cyclic loading is maintained on the face cam disc.

21: 2020/01325. 22: 28/02/2020. 43: 5/14/2021
51: A01N; B01D; B01J; C02F

71: INSTRUCTION GMBH
72: WELTER, Martin, MEYER Christian, LUNGFIEL Kristian

33: DE 31: 10 2017 007 273.6 32: 2017-08-01

54: REMOVAL OF BACTERIA FROM DRINKING WATER VIA FILTRATION

00: -

The present invention relates to a method for producing biocidal, porous particles of a cross-linked polymer, and to the porous particles that can be produced according to the method of the invention. The invention further relates to porous particles of an amino-group-containing polymer (polyamine) having a relatively low swelling factor. The porous particles according to the invention are used to remove biological contaminants from water to bind metal-containing ions from solutions. The present invention further relates to a filter cartridge which contains the porous cross-linked polymer particles according to the invention.

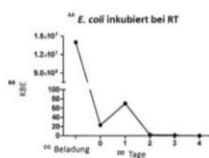
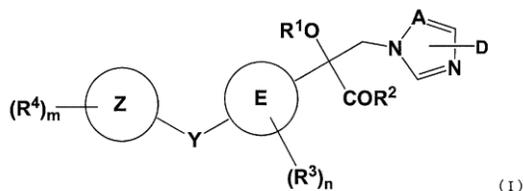


Fig. 1 Retention von *E. coli* auf der BioCap Kartusche über 4 Tage (Inkubation bei Raumtemperatur).

AA: *E. coli* incubated at RT
 BB: 0 day
 CC: 1 day
 DD: 2 days
 EE: Retention of *E. coli* on the BioCap cartridge over 4 days (incubation at room temperature).

21: 2020/01355. 22: 03/03/2020. 43: 2/16/2021
 51: A01N; C07D; A01P
 71: KUREHA CORPORATION
 72: HARIGAE, Ryo, ITO, Atsushi, MIYAKE, Taiji, YAMAZAKI, Toru
 33: JP 31: 2017-218655 32: 2017-11-13
54: AZOLE DERIVATIVE, INTERMEDIATE COMPOUND, METHOD FOR PRODUCING AZOLE DERIVATIVE, AGENT FOR AGRICULTURAL AND HORTICULTURAL USE, AND MATERIAL PROTECTION AGENT FOR INDUSTRIAL USE
 00: -

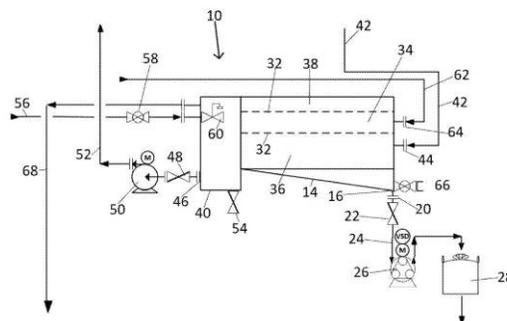
Provided is a plant disease control agent which has low toxicity to humans and animals, while having excellent safety in handling, and which exhibits excellent controlling effect on a wide range of plant diseases and high antibacterial activity against plant pathogens. A compound represented by general formula (I), or an N-oxide form or agrochemically acceptable salt thereof.



21: 2020/01619. 22: 06/03/2020. 43: 6/3/2021
 51: B01D
 71: Ruan KUKARD, Abraham Barend SMIT, Barend Jacobus BEYLEFELD, Charl Jan DU PREEZ
 72: Ruan KUKARD, Abraham Barend SMIT, Barend Jacobus BEYLEFELD, Charl Jan DU PREEZ
 33: ZA 31: 2017/04896 32: 2017-07-19
54: CLARIFIER
 00: -

A clarifier for removing entrained fines from a solution from a plant, the clarifier consisting of a fines settling system comprising:- a chamber (12); a

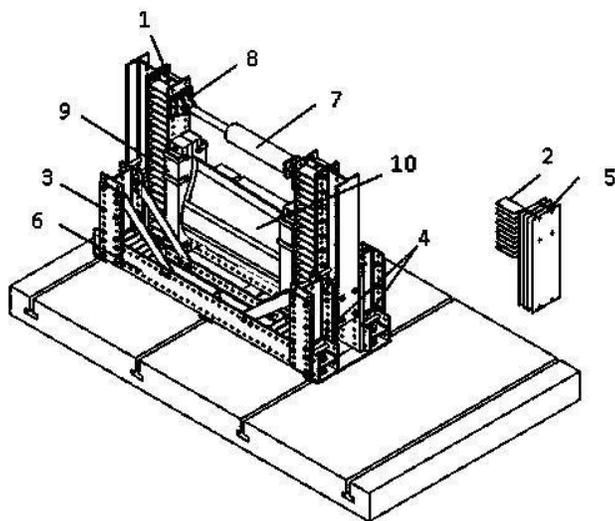
filter compartment (34) comprised by a pair of spaced wire screens (32) which are located midway along the height of the chamber (12) and which retain filter media therebetween; a settling compartment (36) in the chamber below the filter compartment, having a base (14) which is sloped downwardly to lead to a discharge outlet (16) whereby in use fines which settle on the base can be discharged through the discharge outlet to waste; a feed line (42) for solution from the plant leading to the chamber (12) below the filter compartment; and an overflow compartment (40) that in



21: 2020/01628. 22: 3/16/2020. 43: 6/2/2021
 51: G01M
 71: SHANDONG UNIVERSITY OF TECHNOLOGY
 72: Leian ZHANG, Peiyu QI, Xuli WANG, Xiuting WEI, Liangfeng YU, Xuemei HUANG, Yanzhen GUO
 33: CN 31: 201910424259.1 32: 2019-05-21
54: LOADING METHOD AND DEVICE FOR TRAILING EDGE COMPONENT OF WIND TURBINE BLADE
 00: -

The present invention relates to a loading method and device for a trailing edge component of a wind turbine blade, the device includes steel-structure tooling and a loading module, and the steel structure tooling is mainly formed by connecting main columns, connecting plates, side columns, right-angle columns, rotating shafts, rotating shaft plates and bottom columns. A trailing edge component of a wind turbine blade is mounted under the loading module through a wood plate group clamp, and a side of a trailing edge is upward. The bottom of the loading device has a rotating shaft structure so that a telescoping motion of a hydraulic cylinder is converted to compression or tension of the trailing edge of the component. Variables of a loading force with the time in a whole process from start of loading

to blade trailing edge breakage are recorded so as to analyze bearing capacity of the component.



21: 2020/01658. 22: 3/17/2020. 43: 5/13/2021
51: A99Z

71: North China University of Science and Technology
72: Qingzeng QIAN, Xiangke CAO, Qian WANG, Fumin FENG

54: PRIMER, KIT FOR DETECTING ASPIRIN RESISTANCE-RELATED GENE POLYMORPHISM AND APPLICATION THEREOF

00: -
The invention discloses a primer for detecting aspirin resistance-related gene polymorphism, comprising the following primer groups: COX-1-F1, COX-1-F2, COX-1-R, COX-2-F1, COX-2-F2, COX-2-R, PEAR1-F1, PEAR1-R. Further disclosed is a kit for detecting aspirin resistance-related gene polymorphism, comprising the primer groups, a nucleic acid template, a 2xPCR reaction solution, a DNA polymerase, an SYBR Green dye, a positive control, a negative control, an internal control and water. The primer disclosed by the invention can detect polymorphism of COX-1, COX-2 and PEAR1 genes at the same time so as to facilitate accurate medication of aspirin; the kit has the advantages of high sensitivity, high specificity, simplicity in operation, short detection time and the like, and can be applied to polymorphism detection of three genes and screening of patients with aspirin resistance.

21: 2020/01773. 22: 3/20/2020. 43: 4/23/2021
51: C07C

71: CHEVRON PHILLIPS CHEMICAL COMPANY LP

72: BRUCE KREISCHER

33: US 31: 14/858,526 32: 2015-09-18

33: US 31: 14/858,588 32: 2015-09-18

54: IMPROVED DESIGN OF AN ETHYLENE OLIGOMERIZATION/TRIMERIZATION/TETRAMERIZATION REACTOR

00: -

A process includes periodically or continuously introducing an olefin monomer and periodically or continuously introducing a catalyst system or catalyst system components into a reaction mixture within a reaction system, oligomerizing the olefin monomer within the reaction mixture to form an oligomer product, and periodically or continuously discharging a reaction system effluent comprising the oligomer product from the reaction system. The reaction system includes a total reaction mixture volume and a heat exchanged portion of the reaction system comprising a heat exchanged reaction mixture volume and a total heat exchanged surface area providing indirect contact between the reaction mixture and a heat exchange medium. A ratio of the total heat exchanged surface area to the total reaction mixture volume within the reaction system is in a range from 0.75 in⁻¹ to 5 in⁻¹, and an oligomer product discharge rate from the reaction system is between 1.0 (lb)(hr⁻¹)(gal⁻¹) to 6.0 (lb)(hr⁻¹)(gal⁻¹).

21: 2020/01790. 22: 20/03/2020. 43: 4/21/2021
51: B08B; F26B

71: STATE GRID CORPORATION OF CHINA, STATE GRID HEBEI ELECTRIC POWER CORPORATION, MAINTENANCE BRANCH
72: TIAN, YI, YUE, YANG, LIU, HUI, MIAO, JUNJIE, ZHANG, YULIANG, CHEN, KAILIANG, WEI, XIAOMING

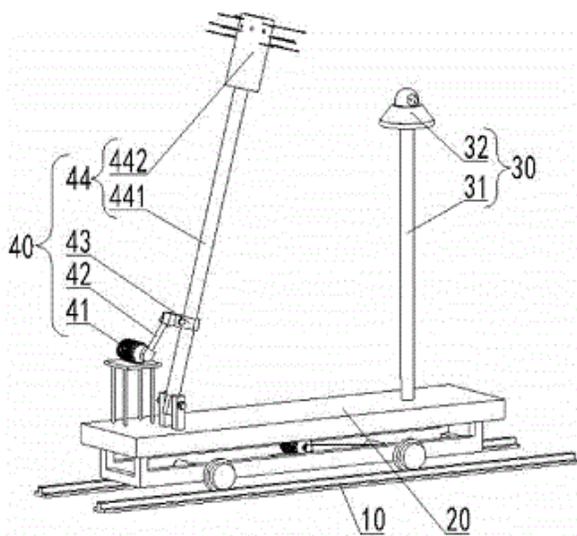
33: CN 31: 201710823633.6 32: 2017-09-13

54: AUTOMATIC FOREIGN MATTER REMOVAL APPARATUS FOR ELECTRONIC FENCE

00: -

The present invention belongs to the technical field of electronic fence auxiliary devices, and in particular relates to an automatic foreign matter removal apparatus for an electronic fence. The automatic foreign matter removal apparatus for an electronic fence comprises a rail suitable for being arranged on a wall, an inspection vehicle which is arranged on the rail and which can move along the rail, a detection mechanism arranged on the inspection vehicle, a cleaning mechanism arranged on the inspection vehicle, a drive mechanism for driving the

inspection vehicle to move along the rail, and a processor arranged on the inspection vehicle, wherein the detection mechanism is used for acquiring a real-time image of a power grid and sending same to the processor; the processor is used for comparing the real-time image with a preset image, generating a stop signal when foreign matter is recognized and sending same to the drive mechanism, and generating a foreign matter cleaning signal and sending same to the cleaning mechanism; the drive mechanism controls the inspection vehicle so same stops moving; and the cleaning mechanism removes the foreign matter. The apparatus can replace workers for inspection, and can automatically remove foreign matter when same is discovered, thus saving both time and labor, reducing the workload of maintenance personnel, and improving production efficiency.



21: 2020/01801. 22: 3/23/2020. 43: 6/2/2021
 51: A01C; C05C; C05G
 71: INSTITUTE OF AGRICULTURAL RESOURCES AND ENVIRONMENT, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES
 72: Deshui TAN, Zhaohui LIU, Lihua JIANG, Yan LI, Haitao LIN, Xiaobin WU, Jianlin WEI, Yan LI, Fuli ZHENG; Guoliang ZHU, Zishuang LI
54: METHOD FOR FERTILIZING CORN IN SEMI-HUMID REGION FOR ONE TIME

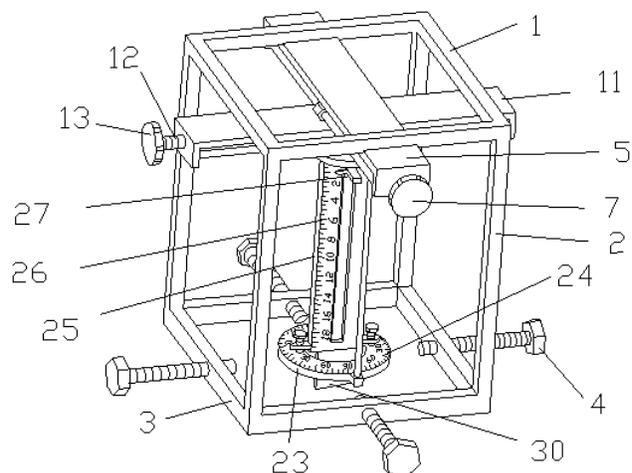
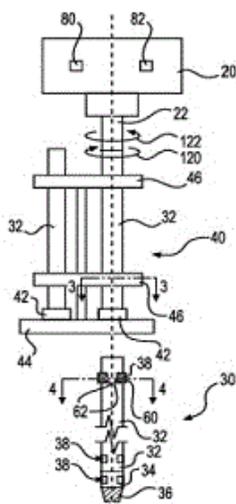
00: -
 The present invention relates to a method for fertilizing corn in a semi-humid region for one time, and belongs to the field of agricultural fertilization.

The method adopts a corn seeding and fertilizing combined machine to sow and fertilize for one time in a semi-humid region. The method realizes nutrient supply throughout the growth of corn without performing top dressing in a later stage. The method improves fertilizer utilization, saves labor cost and improves production and income. The present invention effectively improves ventilation and light transmission conditions in the corn field, eliminates the effect of a stubble of a preceding crop on the emergence of corn, improves uniformity, and reduces nutrient loss.

21: 2020/01802. 22: 3/23/2020. 43: 4/12/2021
 51: E21B
 71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC, CATERPILLAR GLOBAL MINING HMS GMBH
 72: DIEKMANN, TIMO, HOULT, ROSS L, MOBERG, CARL J, GLOVER, REX, KUISSI, HYPOLITE, TAYLOR, SAMUEL C, SHAHID, AHSAN
 33: US 31: 16/549,807 32: 2019-08-23
 33: US 31: 62/824,939 32: 2019-03-27

54: SYSTEM AND METHOD OF TRACKING FLAT SURFACES OF A COMPONENT OF A DRILLING MACHINE

00: -
 A drilling machine (10) includes a mast (18), a rotary head (20) movably coupled to the mast (18), a drill string component (32, 34, 36) having a pair of opposed flat surfaces (38), and a securing structure (40, 60) including engagement surfaces (50, 62) shaped to engage the opposed flat surfaces (38) and secure the drill string component (32, 34, 36) from rotating. The drilling machine (10) also includes a controller (110) configured to track a rotational location of the flat surfaces (38) of the drill string component (32, 34, 36) during rotation of the drill string component (32, 34, 36). The controller (110) is further configured to receive tracking information from a sensor (80, 82) associated with the rotary head (20) and control the rotary head (20) to align the opposed flat surfaces (38) for engagement by the securing structure (40, 60).

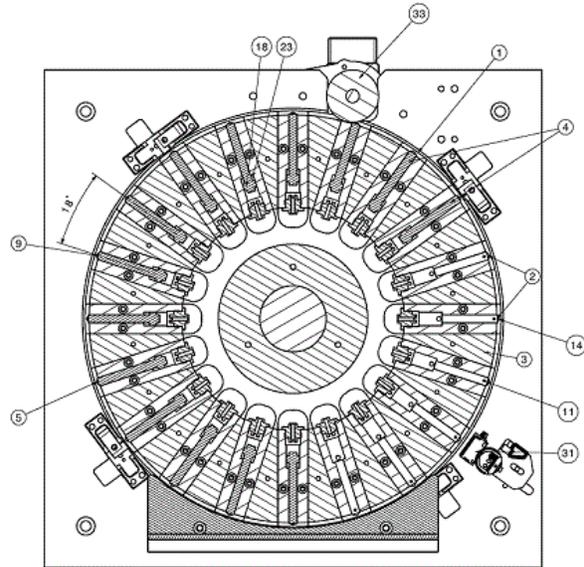
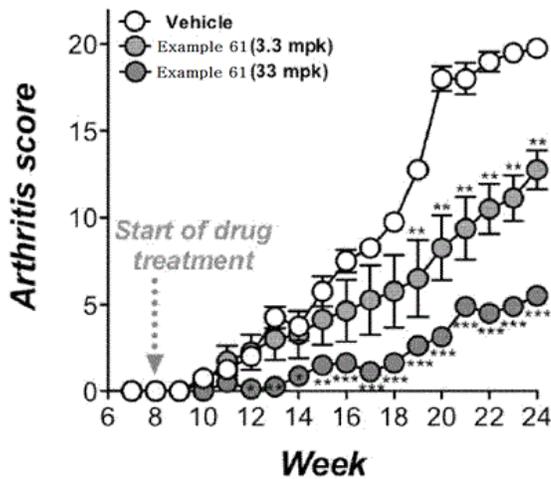


21: 2020/01861. 22: 3/24/2020. 43: 6/2/2021
 51: G01N
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Qinyong MA, Qingqing SU, Dongdong MA, Kun HUANG
 33: CN 31: 201910526933.7 32: 2019-06-18
54: DEVICE AND METHOD FOR PREPARING TRUE TRIAXIAL GEOTECHNICAL SPECIMENS WITH DIFFERENT FLAW GEOMETRIC PARAMETERS

00: -
 The present invention provides a device and method for preparing true triaxial geotechnical specimens with different flaw geometric parameters. The device for preparing true triaxial geotechnical specimens with different flaw geometric parameters includes a fixed supporting frame assembly, a flaw location control assembly, a flaw angle control assembly, and a flaw depth control assembly. The flaw location control assembly is fixedly connected to the fixed supporting frame assembly. The flaw angle control assembly is hinged to the flaw location control assembly through a spherical hinge. The flaw depth control assembly is fixedly connected to the flaw angle control assembly. The device and method of the present invention can prepare true triaxial flawed geotechnical specimens with different flaw locations, different flaw dip angles, different flaw depths and different flaw lengths by adjusting each assembly of the device, the preparation precision of the true triaxial flawed geotechnical specimens is improved.

21: 2020/01887. 22: 3/24/2020. 43: 4/23/2021
 51: C07D A61K A23L
 71: ILAB
 72: HEO, Tae-Hwe, SHIN, Kye Jung, PARK, Yeon-Hwa
 33: KR 31: 10-2017-0135899 32: 2017-10-19
54: COMPOSITION FOR PREVENTING OR TREATING TNF-RELATED DISEASES, CONTAINING NOVEL DERIVATIVE AS ACTIVE INGREDIENT, AND METHOD FOR INHIBITING TNF ACTIVITY BY USING SAME

00: -
 The present invention relates to: a 4-benzopyranone derivative and a pharmaceutically acceptable salt, solvate, racemate or stereoisomer thereof; a composition for preventing, alleviating or treating TNF-related diseases, containing the same as an active ingredient; and a method for treating TNF-related diseases, a reagent composition for inhibiting TNF and a method for inhibiting TNF, all of which use the same. The compositions can be orally administered so as not to cause injection side effects, do not cause immunological tolerance, and can effectively inhibit TNF activity by being directly bound to TNF while facilitating co-administering with a conventional oral preparation and dosage control.

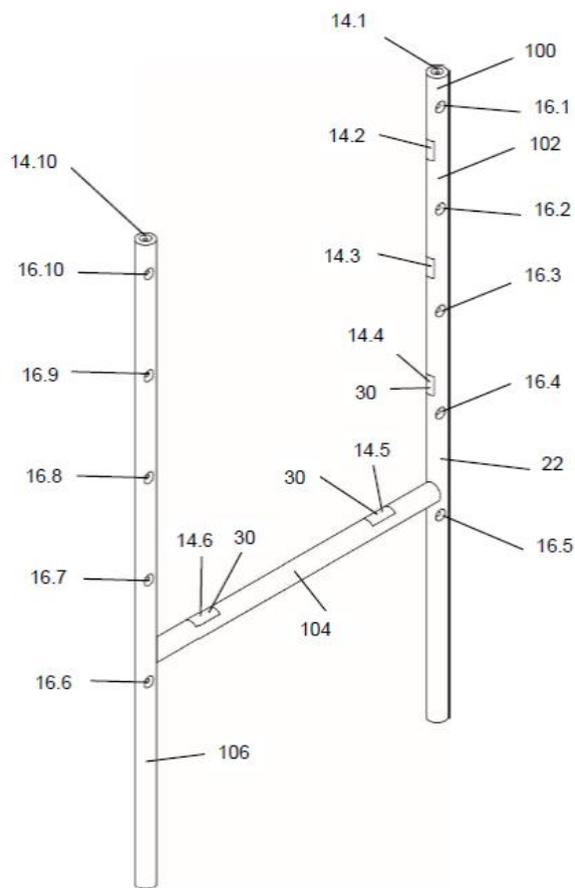


21: 2020/01889. 22: 3/24/2020. 43: 3/30/2021
 51: A01C G01N
 71: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH, INDAT MODELLBAU WERKZEUGBAU FORMENBAU GMBH
 72: ROSENBAUM, Wolfgang, LEOPOLD, Markus, PFAFFENBICHLER, Nikolaus, MITTER, Birgit
 33: EP 31: 17192678.5 32: 2017-09-22
54: SEED TRANSPORTATION SYSTEM AND METHOD

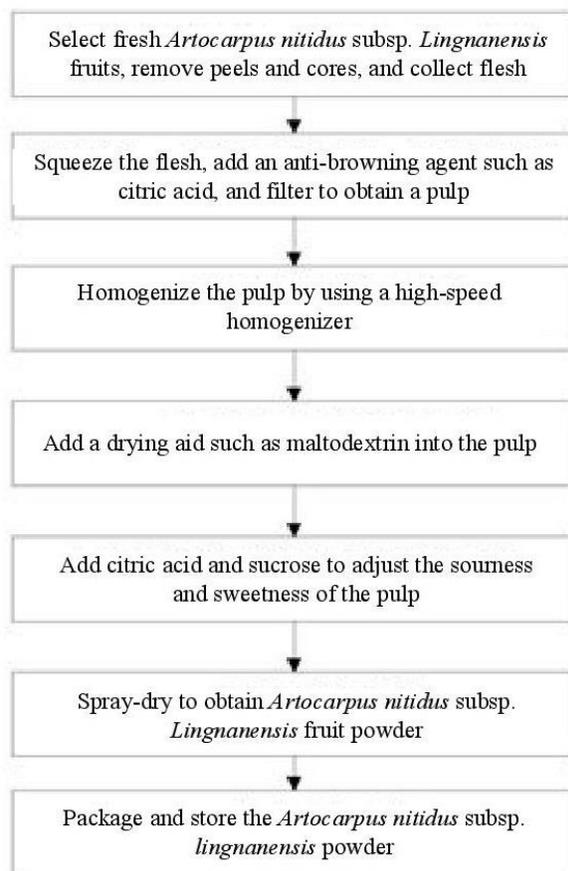
00: -
 A seed transportation system and method for using the same, the seed transportation system comprising a rotatable wheel (1) with at least one seed support (2) for holding a seed, wherein said at least one seed support (2) has one or more fixed support structures configured to restrict movement of the seed in a circumferential direction relative to the rotatable wheel (1) and in a direction away from an axis of rotation (8) of the rotatable wheel (1), and wherein said at least one seed support (2) has an access opening (14) in its radially outer side, said access opening (14) permitting access to the seed for creating an opening in the seed

21: 2020/01973. 22: 5/4/2020. 43: 4/23/2021
 51: A63B; A63F; G06F
 71: LOOK TECHNOLOGIES (PTY) LIMITED
 72: MORNE JOHN DU PLESSIS, DUGALD GILMOUR DU PLESSIS
 33: ZA 31: 2019/00492 32: 2019-01-24
54: GOAL SPORT CHECKING SYSTEM AND METHOD

00: -
 A goal sport checking system for determining when a goal scoring object, such as a ball or a puck has entered a goal scoring area. The goal scoring area is defined by a goal structure, wherein the system includes one or more sensors and/or image capturing devices which is/are secured/mounted to the goal structure; and a processing arrangement which is connected to the one or more sensors/image capturing devices and which is configured to analyse sensing information/captured images received from the sensors/image capturing devices and to determine automatically, by using software or a computer program, when a ball/puck has crossed/entered the goal scoring area.



and high-speed dispersion homogenizer; (4) adding a drying aid: adding a drying aid such as maltodextrin into the pulp; (5) adjusting the flavor: adding citric acid and sucrose to adjust the sourness and sweetness of the pulp; (6) spray-drying: spray-drying with a spray dryer under an appropriate condition, and collecting a cooled fruit powder; (7) packaging and storing.

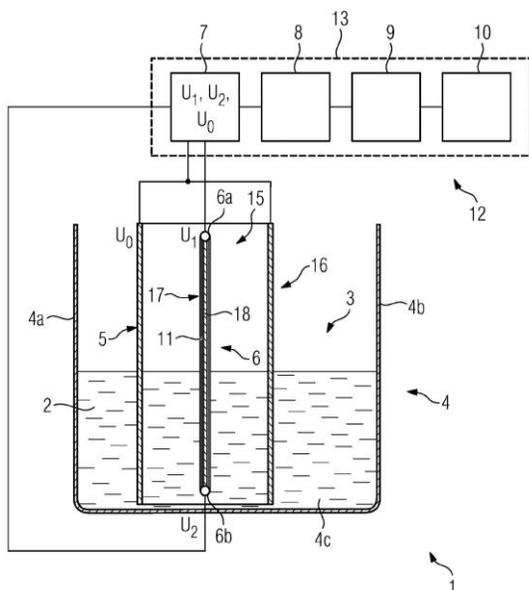


21: 2020/02027. 22: 5/4/2020. 43: 6/2/2021
 51: A23L
 71: Guangdong University of Petrochemical Technology, Maoming Institute of Fruit Science
 72: Ying LI, Jianbin LUO, Yunyi XIAO, Jiefeng LIU, Songshan QIU, Hanbing HAN
 33: CN 31: 201910316602.0 32: 2019-04-19
54: METHOD FOR PREPARING ARTOCARPUS NITIDUS SUBSP. LINGNANENSIS FRUIT POWDER SPRAY

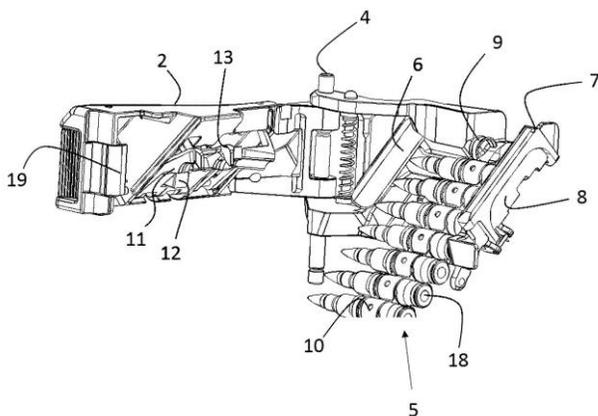
00: -
 A method for preparing *Artocarpus nitidus* subsp. *lingnanensis* fruit powder spray. The preparation method includes the following steps: (1) selecting and collecting flesh: removing rotten or moldy fruits, removing peels and cores of fresh *Artocarpus nitidus* subsp. *lingnanensis* fruits, and collecting the flesh; (2) squeezing the flesh, anti-browning and filtering: mashing and squeezing cleaned flesh; adding an anti-browning agent such as citric acid; filtering with a four-layer gauze to obtain a pulp extract; removing a pomace; (3) homogenizing the pulp: homogenizing the pulp by using a high-pressure homogenization

21: 2020/02230. 22: 5/4/2020. 43: 3/30/2021
 51: G01F
 71: BEDIA Motorentchnik GmbH & Co. KG
 72: SCHULTHEIS, Holger, KODL, Georg
 33: DE 31: 10 2017 127 145.7 32: 2017-11-17
54: DEVICE AND METHOD FOR CAPACITIVELY MEASURING A FILL LEVEL OF A FILLING MEDIUM

00: -
 The invention relates to a device [1] for capacitively measuring a fill level of a filling medium [2] in a filling volume [3] that can be filled with a filling medium, comprising: a first measuring element [5], a second measuring element [6], the second measuring element [6] being designed in such a way that a potential gradient is formed between a first portion [6a] of the second measuring element [6] and a second portion [6b] of the second measuring element [6]; a voltage-generating apparatus [7], which is associated with the second measuring element [6] and which is designed to generate a first voltage [U₁] and a second voltage [U₂], which is optionally different from the first voltage [U₁], and to apply the same to the second measuring element [6]; a control apparatus [8], which is associated with the voltage-generating apparatus [7] and which is designed to control the operation of the voltage-generating apparatus [7] in such a way that the first voltage [U₁] and the second voltage [U₂] are alternately applied to the first portion [6a] and the second portion [6b] of the second measuring element [6].



21: 2020/02265. 22: 5/4/2020. 43: 4/7/2021
 51: F41A; F42B
 71: FN Herstal S.A.
 72: FRANSEN, Pascal Marcel Henri Denis, VERHAEGEN, Damien Nicole Freddy, BECKERS, Robert, MICHOTTE, Paul, GODBILLE, Antoine
 33: EP(BE) 31: 17190388.3 32: 2017-09-11
54: MACHINE GUN
 00: -
 The present invention relates to a machine gun (1) comprising a feed channel for a belt (5) for ammunition (18), and a cover (2) for said feed channel, wherein the closing movement of the cover results in the longitudinal position of the ammunition (18) belt (5) being adjusted within the feed channel.



21: 2020/02266. 22: 5/4/2020. 43: 3/30/2021
 51: A23K; A61P

71: Ynsect
 72: MOTTE, Constant, ARMENJON, Benjamin
 33: FR 31: 1758220 32: 2017-09-06
54: POWDER MADE OF INSECTS, FOR THE PREVENTION OR REDUCTION OF STRESS IN FISH BEING FARMED

00: -
 The present invention relates to a powder made of insects, for use in the prevention or reduction of stress in fish being farmed.

21: 2020/02272. 22: 5/4/2020. 43: 4/7/2021
 51: A61N
 71: Swiss Spa System Ltd.
 72: GIMELLI, Bruno, DOYLE, James N.
 33: DE 31: 10 2017 123 809.3 32: 2017-10-12
54: DEVICE THAT CAN BE HELD ON ONE HAND FOR ELECTRICALLY ASSISTED SKIN TREATMENT, ADDITIONAL PART FOR SAID DEVICE AND BLISTER FOR SAID ADDITIONAL PART

00: -
 The aim of the invention is to simplify the handling of a skin treatment device (1). This aim is achieved, according to the invention, in that a ring (10), on which a carrier material for an active substance is impregnated, is plugged on the cap (5) of the device, which forms the skin electrode (4). Said carrier material preferably has the shape of a strip (13) and is stretched over the head of the cap (5), which is placed on the skin. As a result, an exactly metered quantity of active substance is located between the skin electrode (4) and the skin. Since the arcs (12) of the oval ring (10) are exposed, the latter can be gripped there without the hands being smeared with the cream carrying the active substance. The rings (10) having the impregnated carrier materials are provided in blisters (20).

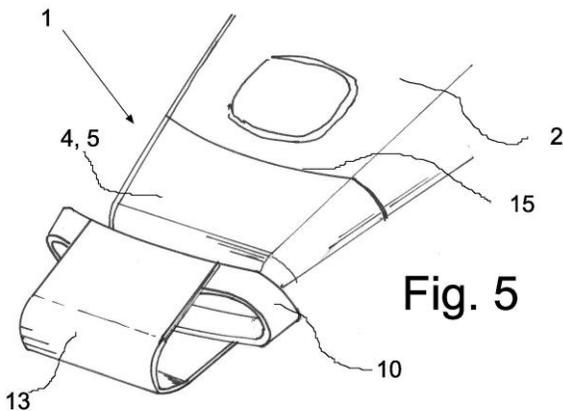


Fig. 5

21: 2020/02276. 22: 5/4/2020. 43: 4/7/2021
51: A23C; A23D; A23L

71: Société des Produits Nestlé S.A.
72: NAPOLITANO, Guillermo E., YE, Yubin
33: US 31: 62/558,424 32: 2017-09-14

54: CREAMERS COMPOSITIONS WITH ULTRA-HIGH OLEIC OILS

00: -
The present invention relates to a creamer composition comprising ultra-high oleic oils, with an oleic acid content from 85 to 97% by weight of the total fatty acids in the creamer composition. The creamer composition may comprise blend of high oleic sunflower and high oleic soybean oil in the range of 90:10 to 10:90 or blend of high oleic soybean and high oleic algal oil in the range of 90:10 to 10:90. The creamer composition may also comprise added oil soluble antioxidants. The invention also relates to a beverage composition comprising the liquid or powder creamer composition, and a method of making it.

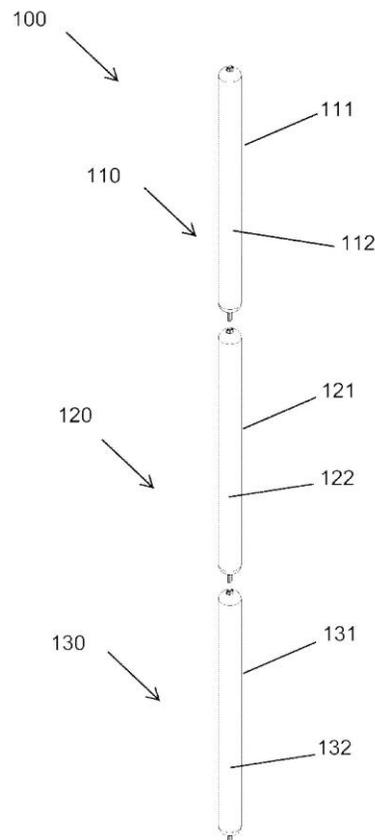
21: 2020/02285. 22: 5/4/2020. 43: 4/14/2021
51: E21D

71: DYWIDAG-Systems International Pty Limited
72: EVANS, David William, HIRD, Derek Colin
33: AU 31: 2017903643 32: 2017-09-08

54: ENCAPSULATION SYSTEM AND METHOD OF INSTALLING A ROCK BOLT

00: -
An encapsulation system (100) for use in securing a rock bolt in a bore hole drilled into a rock face to be stabilised, said encapsulation system comprising at least two separate encapsulation mediums (112,122) and one or more elongate cartridges (110,120) containing said encapsulation mediums

(112,122), each said cartridge having a frangible casing (111,121), said encapsulation mediums including: a first encapsulation medium (112) comprising a curable first resin formulation; and a second encapsulation medium (122); wherein, following use in securing a rock bolt, said second encapsulation medium has a lower bond strength and/or a lower compressive strength than said first resin formulation.



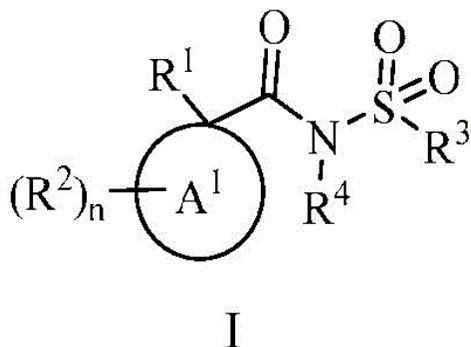
21: 2020/02363. 22: 5/4/2020. 43: 3/30/2021
51: A61K; A61P; C07C; C07D

71: Abbvie Overseas S.À.R.L., Galapagos NV
72: ALTENBACH, Robert J., BOGDAN, Andrew, COUTY, Sylvain, DESROY, Nicolas, GFESSER, Gregory A, HOUSSEMAN, Christopher Gaëtan, KYM, Philip R., LIU, Bo, MAI, Thi Thu Trang, MALAGU, Karine Fabienne, MERAYO MERAYO, Nuria, PICOLET, Olivier Laurent, PIZZONERO, Mathieu Rafaël, SEARLE, Xenia B., VAN DER PLAS, Steven Emiel, WANG, Xueqing, YEUNG, Ming C.

33: US 31: 62/558,430 32: 2017-09-14

54: MODULATORS OF THE CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR PROTEIN AND METHODS OF USE

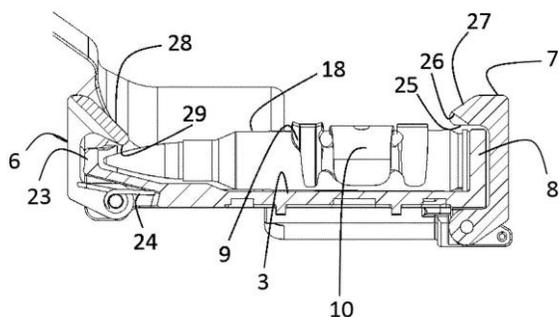
00: -
 The invention discloses compounds of Formula (I), wherein A¹, R¹, R², R³, R⁴, and n are as defined herein. The present invention relates to compounds and their use in the treatment of cystic fibrosis, methods for their production, pharmaceutical compositions comprising the same, and methods of treating cystic fibrosis by administering a compound of the invention.



21: 2020/02375. 22: 5/4/2020. 43: 3/30/2021
 51: F41A; F42B
 71: FN Herstal S.A.
 72: FRANSEN, Pascal Marcel Henri Denis, VERHAEGEN, Damien Nicole Freddy, BECKERS, Robert, MICHOTTE, Paul, GODBILLE, Antoine
 33: EP(BE) 31: 17190388.3 32: 2017-09-11

54: MACHINE GUN

00: -
 The invention relates to a machine gun (1) comprising a feedway having a main surface (3) for sliding an ammunition belt (5), side faces (8, 23) that guide the ammunition (18) belt (5) during use, and at least one surface (25, 29) for retaining the belt (5), arranged on the upper edge of the side faces (8, 23), said retaining surfaces (25, 29) facing the sliding surface (3) and said retaining surfaces (29, 25) being open so as to allow the insertion of the ammunition (18) belt (5).



21: 2020/02380. 22: 5/4/2020. 43: 3/30/2021
 51: B66C; B66D
 71: Konecranes Global Corporation
 72: LINDBERG, Teppo, HELKIÖ, Henri, LÄHTEENMÄKI, Atte, KOKKO, Henri, LAUKKANEN, Niko

33: FI 31: 20175847 32: 2017-09-22
54: HOISTING ARRANGEMENT OF A HOIST OF A CRANE

00: -
 The hoisting arrangement of a hoist of a crane, comprises a trolley (1) arranged to move along a main support structure (2) of the crane, whereby the trolley (1) comprises a support frame structure (3); bearing wheels (4) which are fastened to the support frame structure (3) and by means of which the trolley (1) is arranged to move along said main support structure (2); a hoisting mechanism that has a rope drum (5) for a hoisting rope (6), a rope pulley arrangement which has upper sheave arrangements (7) and lower rope pulley arrangements (8) and through which the hoisting rope (6) may be guided from the rope drum (5) to an attachment point (9), and a hoisting member (10) in cooperation with the hoisting rope (6) for hoisting a load; whereby the rope drum (5) is supported to the support frame structure (3) of the trolley so that the axle (11) of the rope drum (5) is parallel to the main support structure (2). In the hoisting arrangement, the disengagement point (12) of the hoisting rope (6) from the rope drum (5), the attachment point (13) of the sheave, and the attachment point (14) of the first end of hoisting rope (6) are arranged on the same vertical plane (14) of the hoisting arrangement. The rope drum (5) has a first end (17) towards which the hoisting rope (6) is wound in the hoisting member's (10) upper position, and a second end (18) towards which the hoisting rope (6) is unwound in the hoisting member's (10) lower position. The first rope pulley (8a) of the rope pulley arrangement (8) is so placed that the release point (15) of the hoisting rope from the first rope pulley (8a) to the first sheave (7a) is, in the axle direction of the rope drum (5), further from the second end (18) than the first end (17) of the rope drum (5).

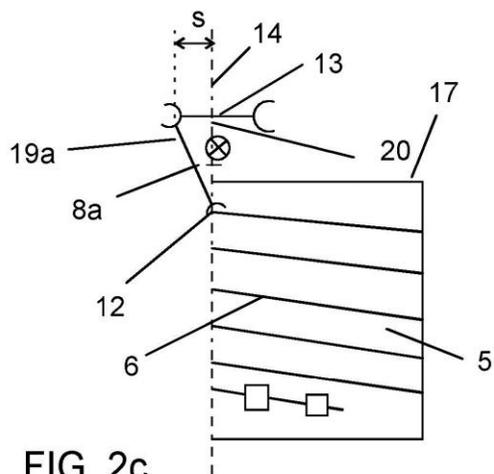


FIG. 2c

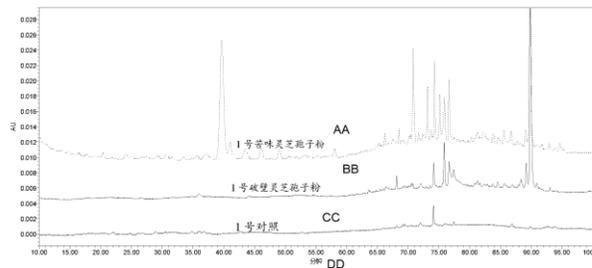


图 4

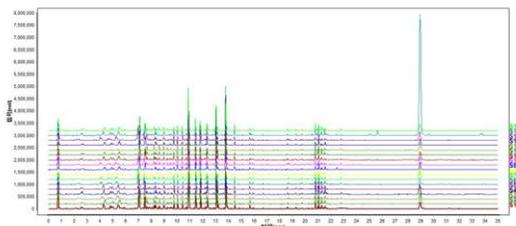
AA Bitter *Ganoderma lucidum* spore powder 1
 BB Wall-broken *Ganoderma lucidum* spore powder 1
 CC Control 1
 DD Minutes

21: 2020/02419. 22: 04/05/2020. 43: 6/2/2021
 51: A23L; A61K
 71: ZHEJIANG SHOUXIANGU PHARMACEUTICAL COMPANY, LTD, JINHUA SHOUXIANGU PHARMACEUTICAL COMPANY, LTD
 72: Zhenhao LI, Jing XU, Ying WANG, Yuejiao SHI, Mingyang LI
 33: CN 31: 201710958494.8 32: 2017-10-16
54: BITTER GANODERMA LUCIDUM SPORE POWDER AND PREPARATION METHOD THEREOF

00: -
 A preparation method of bitter *Ganoderma lucidum* spore powder, the prepared bitter *Ganoderma lucidum* spore powder, and a drug or health care product thereof. The preparation method comprises removing impurities, subjecting to an ice bath, performing heating extraction with water, filtering by a millipore filter, performing dry sterilization, and performing wall-breaking. The method can effectively increase the content of a bitter substance in the *Ganoderma lucidum* spore powder, and the content of total triterpenes of *Ganoderma lucidum* can reach 5-8%. The method can also increase the content of *Ganoderma lucidum* polysaccharides to 6-10%.

21: 2020/02443. 22: 5/5/2020. 43: 6/2/2021
 51: A01C; A61K
 71: JIANGXI UNIVERSITY OF TRADITIONAL CHINESE MEDICINE
 72: Lingyun ZHONG, Hengli TONG, Ming YANG, Qianfeng GONG, Jinlian ZHANG, Xide YE, Jing ZHU, Huan YU, Yi HUANG, Fang WANG
54: METHOD FOR OPTIMIZING RADIX ACONITI LATERALIS PROCESSING PROCESS
 00: -

The present invention provides a method for optimizing a radix *Aconiti lateralis* processing method, relating to the technical field of traditional Chinese medicine processing. The method for optimizing a radix *Aconiti lateralis* processing method includes carrying out experimental design on to-be-optimized factors through a Box-Behenken design method to obtain processed products with different factors and different parameters; performing liquid chromatography-mass spectrometry detection on the processed products to obtain respective fingerprints; after common peaks of the fingerprints are screened, analyzing main causes of areas of the common peaks to construct a comprehensive evaluation function of processed radix *Aconiti lateralis* products; calculating a score of a comprehensive evaluation function of each group according to the function, constructing an equation between the to-be-optimized factors and the score, and predicting an optimal process parameter according to the equation



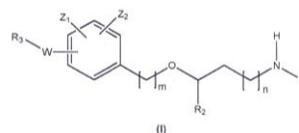
21: 2020/02475. 22: 5/6/2020. 43: 6/2/2021
 51: A01G; C05F; C05G
 71: INSTITUTE OF AGRICULTURAL RESOURCES AND ENVIRONMENT, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES
 72: Yingpeng ZHANG, Yan LI, Pengfei REN, Tongkai ZHAO, Ming SUN, Yongping JING, Luji BO, Ziwen ZHONG, Yanqin WANG, Longyun FU
 33: CN 31: 201911051404.2 32: 2019-10-31
54: VOLVARIELLA VOLVACEA CULTIVATION MATERIAL, AND PREPARATION METHOD AND USE THEREOF

00: -
 The present invention provides a volvariella volvacea cultivation material, and a preparation method and use thereof. The volvariella volvacea cultivation material of the present invention takes a mushroom cultivating residue of industrially cultivated Flammulina velutipes and quicklime as raw materials. The raw materials have a low procurement price, and can avoid the problem that the mushroom cultivating residue of Flammulina velutipes needs to be soaked with a strong alkali during treatment, and secondary pollution and soil alkalization are easily caused by discharge of the generated wastewater. When the volvariella volvacea cultivation material is used for volvariella volvacea cultivation, the obtained volvariella volvacea has a good quality and a high commercial value; the mushroom cultivating residue of the volvariella volvacea after the cultivation is directly returned to the field to replace organic fertilizers, thereby reducing the input of organic fertilizers and improving soil.

21: 2020/02526. 22: 07/05/2020. 43: 3/24/2021
 51: A61K; C07D; A61P
 71: ESTEVE PHARMACEUTICALS, S.A.
 72: CUEVAS-CORDOBÉS, Félix, ALMANSA-ROSALES, Carmen

33: EP 31: 17382721.3 32: 2017-10-27
54: NEW ALCOXYAMINO DERIVATIVES FOR TREATING PAIN AND PAIN RELATED CONDITIONS

00: -
 The present invention relates to new compounds of formula (I) that show great affinity and activity towards the subunit $\alpha 2d$ of voltage-gated calcium channels (VGCC), or dual activity towards the subunit $\alpha 2d$ of voltage-gated calcium channels (VGCC) and the noradrenaline transporter (NET). The invention is also related to the process for the preparation of said compounds as well as to compositions comprising them, and to their use as medicaments.

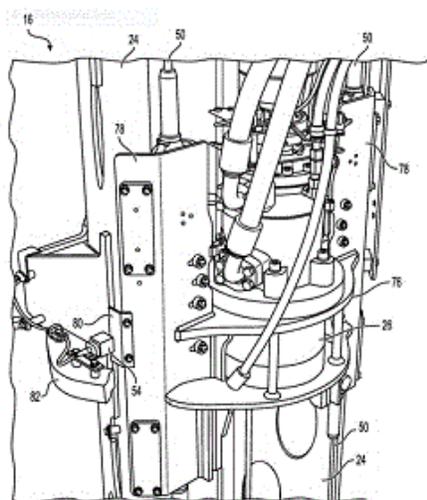


21: 2020/02568. 22: 08/05/2020. 43: 3/30/2021
 51: A61K; C07K; C12N; A61P
 71: I-MAB BIOPHARMA US LIMITED
 72: FANG, Lei, CUI, Feifei, GU, Haijuan, WANG, Zhengyi, GUO, Bingshi, ZANG, Jingwu
 33: CN 31: PCT/CN2018/074121 32: 2018-01-25
54: ANTI-PD-L1 ANTIBODY AND IL-7 FUSIONS
 00: -
 Provided are fusion molecule having a PD-L1 inhibitor fused to a human IL-7 protein or fragment thereof through a peptide linker. The disclosed fusion molecules exhibited synergistic anti-tumor effects.

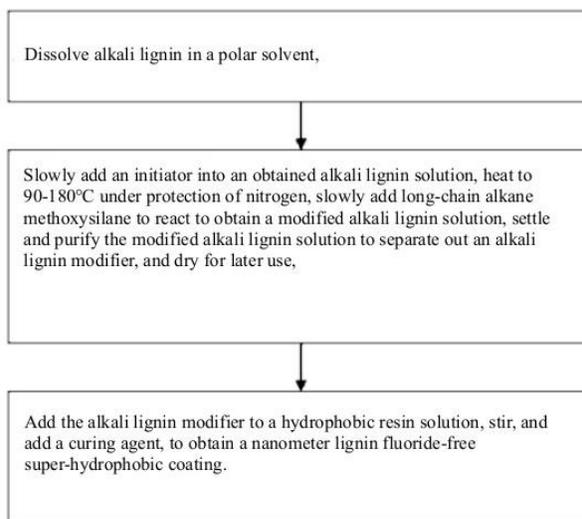
21: 2020/02755. 22: 5/14/2020. 43: 4/7/2021
 51: E21B
 71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC
 72: GONZALEZ, FERNANDO R, GLOVER, REX, HANCOCK, STEPHEN M
 33: US 31: 16/417,188 32: 2019-05-20
54: DRILL HEAD POSITION DETERMINATION SYSTEM

00: -
 A drill head position determination system (100) is disclosed. The drill head position determination system (100) may include a mast (16), a drill head (26) movably attached to the mast (16), and a drill drive assembly (42) configured to move the drill

head (26) up and down along a length of the mast (16). The drill head may be configured to rotate a drill string (30). The drill drive assembly (42) may include at least one sheave (48) and a cable system (46) wound about the at least one sheave (48). The drill head position determination system (100) may further include a sheave sensor (52) operatively coupled to the at least one sheave (48) and configured to determine a position of the drill head (26) based on a measured rotational position of the at least one sheave (48).



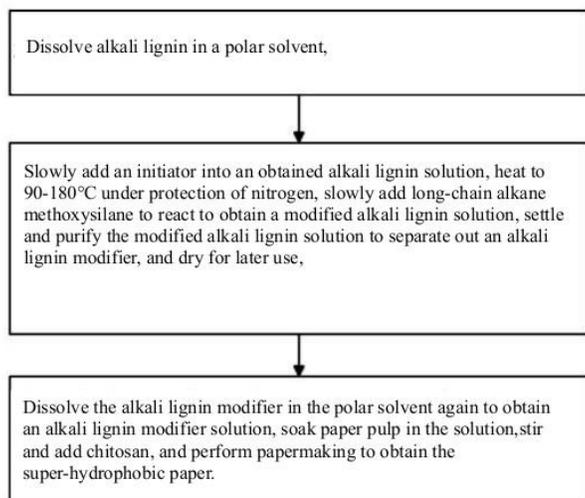
lignin modifier, adding the modified lignin into hydrophobic resin, stirring and adding a curing agent to obtain a lignin/ resin composite coating, and spraying the coating to the surface of wood, ceramics or metal by using a spray gun to form a super-hydrophobic surface film layer; the super-hydrophobic surface film layer has strong hydrophobicity, corrosion resistance and insulativity, adopts raw materials which are cheap and rich in source.



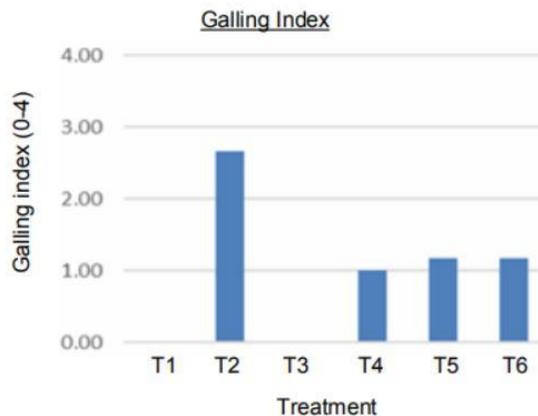
21: 2020/02968. 22: 5/13/2020. 43: 6/2/2021
 51: C09D
 71: Qilu University of Technology
 72: Shoujuan WANG, Haodong SUN, Fangong KONG
 33: CN 31: 201910547026.0 32: 2019-06-24
54: PREPARATION METHOD OF LIGNIN-RESIN SUPER-HYDROPHOBIC INSULATED CORROSION-RESISTANT COATING
 00: -
 The present invention discloses a preparation method of a lignin/resin super-hydrophobic insulated corrosion-resistant coating, and relates to the technical field of coatings and polymeric functional materials; dissolving alkali lignin in a polar solvent, slowly adding an initiator to an obtained alkali lignin solution, heating to 90-180 under protection of nitrogen, slowly adding long-chain alkane methoxysilane to react to obtain a modified alkali lignin solution, settling the modified alkali lignin solution to separate out to obtain modified alkali

21: 2020/02969. 22: 5/13/2020. 43: 6/2/2021
 51: C08H; D21H
 71: Qilu University of Technology
 72: Shoujuan WANG, Haodong SUN, Fangong KONG
 33: CN 31: 201910547030.7 32: 2019-06-24
54: PREPARATION METHOD OF LIGNIN-CHITOSAN BASED FLUORIDE-FREE HIGH-STRENGTH SUPER-HYDROPHOBIC PAPER
 00: -
 The present invention discloses a preparation method of lignin-chitosan based fluoride-free high-strength super-hydrophobic paper, and relates to the technical field of papermaking and polymeric functional materials; dissolving alkali lignin in a polar solvent, slowly adding an initiator to an obtained alkali lignin solution, heating to 90-180 under protection of nitrogen, slowly adding long-chain alkane methoxysilane to react to obtain a modified alkali lignin solution, settling and purifying the modified alkali lignin solution to separate out an alkali lignin modifier, drying for later use, dissolving

the alkali lignin modifier in the polar solvent again to obtain an alkali lignin modifier solution, soaking a paper pulp in the solution, stirring and adding chitosan, and performing papermaking to obtain super-hydrophobic paper; the super-hydrophobic paper has strong hydrophobicity, reutilization property and seal-cleaning capacity, is simple in operation, adopts raw materials which are cheap and rich in source.

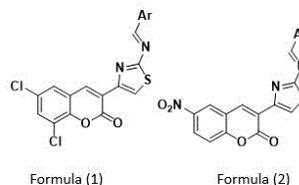


21: 2020/03045. 22: 22/05/2020. 43: 4/7/2021
 51: A01N
 71: EXA AG (PTY) LTD
 72: VAN DYK, Johannes Jacobus, CROUS, Louis Rudolph
 33: AU 31: 2018202204 32: 2018-03-28
54: SOIL TREATMENT COMPOSITION
 00: -
 A synergistic composition, method and kit for controlling, suppressing or preventing plant pathogens in soil is provided. The composition comprises (A) Tagetes (Marigold) essential oil, (B) Allium sativum (garlic) essential oil, (C) Brassica (mustard) essential oil, and (D) Capsicum (chilli) essential oil, in which the volume ratio of (A):(B):(C):(D) is from 1:1:60:1 to 10:10:80:20



21: 2020/03088. 22: 5/27/2020. 43: 3/31/2021
 51: A61K; C07C
 71: DURBAN UNIVERSITY OF TECHNOLOGY
 72: VENUGOPALA, Katharigatta Narayanaswamy, CHANDRASHEKHARAPPA, Sandeep, PILLAY, Melendhran, ODHAV, Bharti, MOHANLALL, Viresh, KASUMBWE, Kabange
 33: ZA 31: 2019/05328 32: 2019-08-13
54: TREATMENT OF TUBERCULOSIS
 00: -

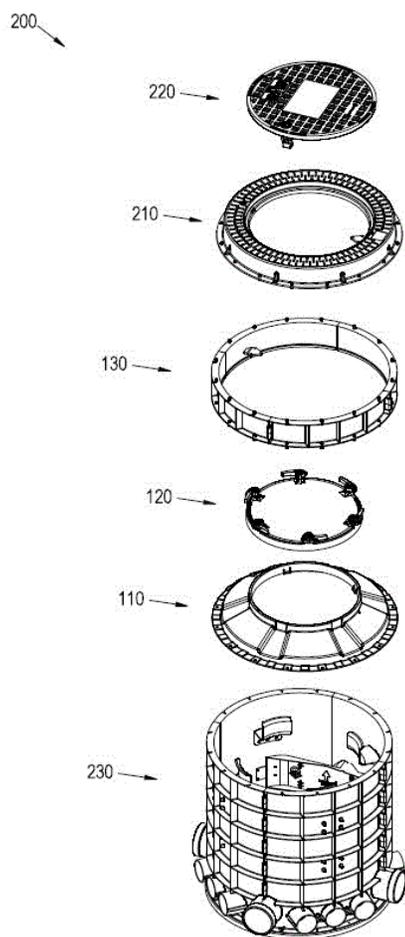
The invention provides a compound of formula (1) or (2)



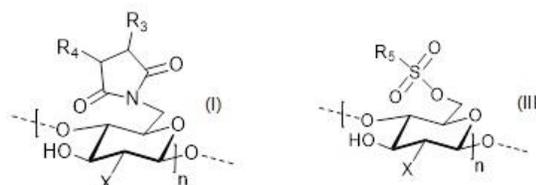
and its usefulness in treatment of tuberculosis.

21: 2020/03089. 22: 5/27/2020. 43: 3/31/2021
 51: E02D
 71: SMART LOCKING LOGIC (PTY) LTD
 72: SCOTT, Andrew Ernest, OLIVIER, Johan, DEARLING, Fabio
 33: ZA 31: 2019/04867 32: 2019-07-25
54: AN ADAPTOR ASSEMBLY FOR A MANHOLE-TYPE ACCESS SYSTEM, AND SUCH AN ACCESS SYSTEM
 00: -
 An adaptor assembly is for a manhole-type access system having a manhole chamber, a coping above the manhole chamber, and manhole cover receivable by the coping. The adaptor assembly includes a base having an annular body with a radially outer edge and a radially inner edge, the base comprising attachment formations at its radially outer edge configured for connection to the manhole

chamber and a lip at its radially inner edge, the lip defining a mouth allowing through-passage into the manhole chamber. The adaptor assembly also includes a lid configured to be complementary to the base and to be engageable with the lip of the base so as to cover the mouth when engaged with the base, wherein the lid includes at least one closure member configured to urge the lid towards the base. The base and the lid are configured to be provided underneath the coping and manhole cover.



containing polymers, such as chitin, chitosan, cellulose, amylose, pullulan, curdlan, inulin, guar gum or cyclodextrin. The method includes reacting a polymer of formula (III) with a cyclic imide to form a polymer of formula (I) thereby introducing a nitrogen functionality at the 6-position and providing access to 6-deoxy-6-amino-β-D-glucopyranoside-containing polymers.



21: 2020/03134. 22: 5/27/2020. 43: 5/14/2021
51: C22B

71: HUTCHINSON, Hector Errol

72: HUTCHINSON, Hector Errol

33: ZA 31: 2019/02843 32: 2019-05-07

54: COPPER ELECTROWINNING PRE-CELL SETTLER

00: -

The pre-cell settler 10 of the invention is configured for the installation of multiple settlers 10 in an electrowinning plant, each installed immediately in advance of two cathodic cells of the electrowinning plant. Each pre-cell settler consists of a three-section tank 12, the sections of which are bolted together to allow assembly and disassembly of the tank 12. The tank 12 is fitted with inlet pipes 14, that, in use, are connected to piping directing rich electrolyte inflow 16 from a stripping section of a solvent extraction plant. The pre-cell settler 10 is configured to extract both lighter and heavier fractions before the rich electrolyte enters the two cathodic cells served by the pre-cell settler 10.

21: 2020/03113. 22: 26/05/2020. 43: 4/14/2021
51: C08B

71: UNIVERSITY OF CAPE TOWN

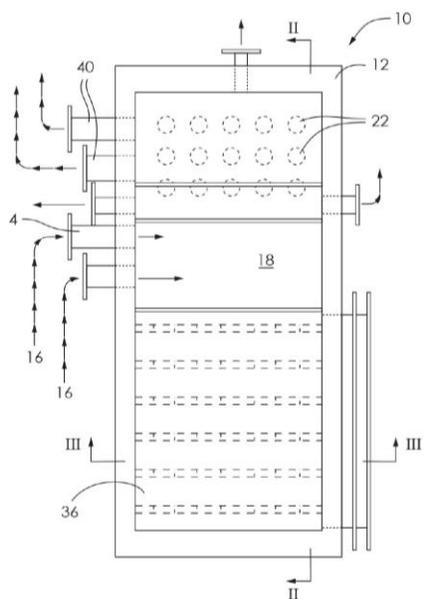
72: JARDINE, Moegamat Anwar, SAYED, Shakeela

33: GB 31: 1719330.1 32: 2017-11-21

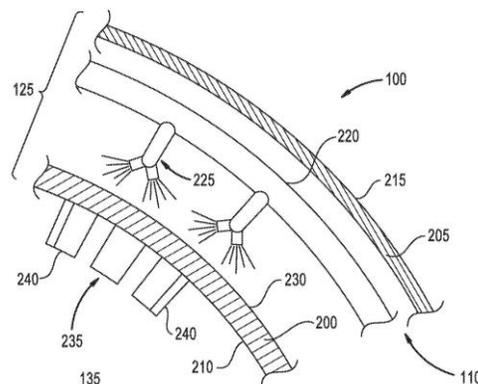
54: METHOD OF SYNTHESISING 6-DEOXY-6-AMINO-β-D-GLUCOPYRANOSIDE-CONTAINING POLYMERS

00: -

The invention provides an improved method of synthesising derivatives of β-D-glucopyranoside-



metallurgical furnace. The plurality of slag retainers extend inwardly from the inner surface of the hot plate and are arranged in a macro-pattern of slag retainer groups. The slag retainer groups include at least two or more of the slag retainers arranged in a micro-pattern.



21: 2020/03149. 22: 5/27/2020. 43: 4/12/2021
 51: A61K; A61P
 71: MedImmune Limited
 72: PECHENOV, Sergei, TYAGI, Puneet, SUBRAMONY, Janardhanan Anand
 33: US 31: 62/579,186 32: 2017-10-31
54: ORAL DELIVERY OF GLP-1 PEPTIDE ANALOGS

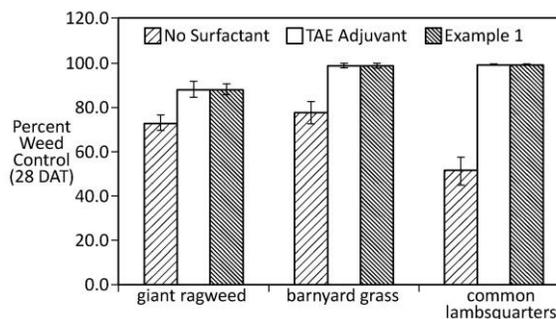
00: -
 The present invention provides formulations for oral administration of GLP- 1 peptide analogs, methods of making such formulations, and methods of treatment using such formulations.

21: 2020/03157. 22: 5/27/2020. 43: 4/14/2021
 51: C11D
 71: Huntsman Petrochemical LLC
 72: MEREDITH, Matthew T.
 33: US 31: 62/608,003 32: 2017-12-20
54: AROMATIC-BASED POLYETHERAMINE ALKOXYLATES

00: -
 The present disclosure provides a polyetheramine alkoxyolate compound containing aromatic groups in the hydrophobe allowing the compound to exhibit unique functionality, high performance and low cost, but without the toxicity and/or skin and eye irritation problems associated with conventional polyetheramine compounds.

21: 2020/03153. 22: 5/27/2020. 43: 3/30/2021
 51: F27B; F27D
 71: Systems Spray-Cooled, Inc.
 72: FERGUSON, Scott A., WARD, Troy D., WILSON, Logan, CHODL, Eric
 33: US 31: 15/874,349 32: 2018-01-18
54: FURNACE SIDEWALL WITH SLAG RETAINERS

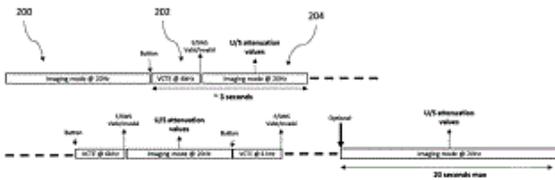
00: -
 A furnace sidewall having slag retainers and metallurgical furnace having the same metallurgical furnace are disclosed herein. In one example, a furnace sidewall is provided that includes a hot plate and a plurality of slag retainers. The hot plate has an inner surface facing configured to face an interior volume of a metallurgical furnace and a bottom surface configured to face a hearth of the



21: 2020/03172. 22: 5/28/2020. 43: 4/12/2021
 51: A61B

71: ECHOSSENS
 72: SANDRIN, LAURENT, AUDIERE, STÉPHANE
 33: US 31: 16/441,970 32: 2019-06-14
 33: EP 31: 19305761.9 32: 2019-06-14
54: METHOD AND DEVICE FOR MEASURING AN ULTRASOUND PARAMETER OF A VISCOELASTIC MEDIUM

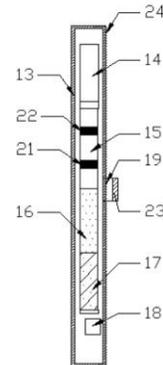
00: -
 A system and method for accumulating ultrasound attenuation data for the detection of disease or other conditions. In one embodiment, an ultrasound system generates a number of imaging pulses during an imaging mode. Echo signals received from the imaging pulses are tested against one or more quality metrics. Attenuation data from the echo signals that pass the quality metrics are accumulated and are used to compute a tissue characteristic. In one embodiment the tissue characteristic is a CAP measurement that is related to an amount of fat in a liver.



21: 2020/03277. 22: 6/2/2020. 43: 5/26/2021
 51: G01N
 71: Tobacco Research Institute of Chinese Academy of Agricultural Sciences
 72: WANG, Xiuguo, ZHENG, Xiao, LIU, Yalei, FANG, Kuan, ZHANG, Xiaolian
 33: CN 31: 202010028344.9 32: 2020-01-10
54: TIME-RESOLVED FLUORESCENCE IMMUNOCHROMATOGRAPHY TEST PAPER CARD FOR DETECTING BUTRALIN

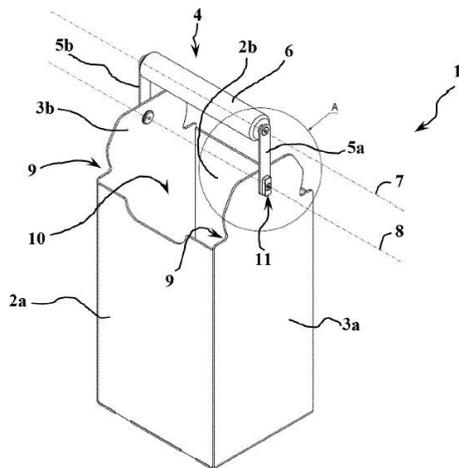
00: -
 A time-resolved fluorescence immunochromatography test paper card for detecting butralin, which comprises a cover body and a housing body, wherein the cover body is provided with a test hole, a loading hole and a through-hole, an isolating mechanism is arranged in the test hole and the loading hole, the isolating mechanism comprises a first isolating ring and a second isolating ring, the top lateral walls of which are respectively provided with a first lug boss and a second lug boss, one end of the upper surface of the working board is concave towards the inner of the

working board to provide a groove, there is a nitrocellulose membrane, a binding pad, a sample pad and a mark zone successively provided between the water absorbing block and the other end of the working board, and the lateral wall at one end of the working board is provided with a bump.



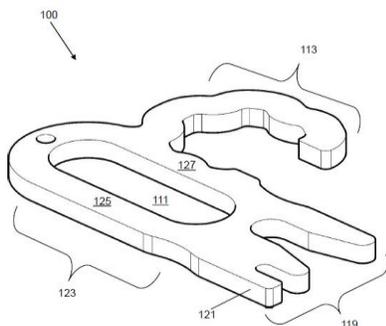
21: 2020/03319. 22: 03/06/2020. 43: 5/13/2021
 51: F41A
 71: NEXTER SYSTEMS
 72: Maxime CARRE, Steve BAERT, Alexis CONTE, Rémi RAYMOND
 33: FR 31: 17/01301 32: 2017-12-13
54: AMMUNITION BOX AND AMMUNITION MAGAZINE INTENDED TO RECIEVE SUCH A BOX

00: -
 The aim of the invention is an ammunition box (1) that is intended to equip a magazine of a gun turret. The box (1) is substantially parallelepipedic and comprises a pivoting handle (4) formed by two articulated arms (5a) on the side walls and connected by a grip (6) allowing the extraction and transportation of the box. The box (1) is characterised in that the handle (4) comprises a protuberance (11) disposed in the vicinity of at least one of the articulated arms (5a) and in the vicinity of its pivoting axis (8) on the walls, which protuberance is intended to engage with at least one guide groove provided on the magazine of the turret. A further aim of the invention is a magazine capable of receiving such a box.



21: 2020/03341. 22: 6/4/2020. 43: 5/24/2021
 51: B25G
 71: ANCHOR MARKETING (PTY) LTD
 72: PURDUE, Warren
54: HAND EXTENSION TOOL

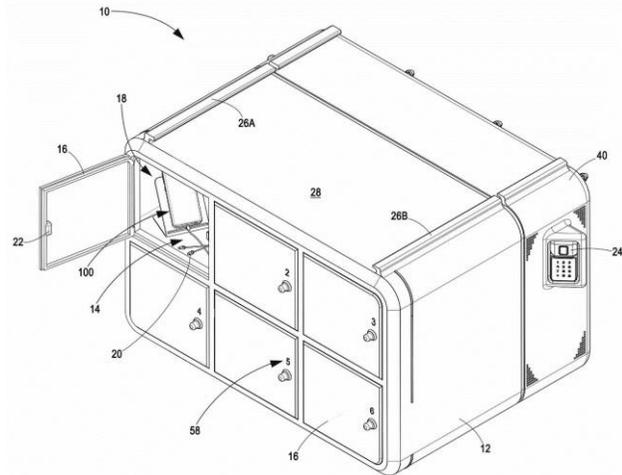
00: -
 A hand extension tool for manipulation of objects is provided. The hand extension tool comprises a handle member, a hook appendage extending in a first direction from the handle member and configured to hook or rotate an object, and a fork appendage extending in a second different direction from the handle member and including a first pointer member separated by a slot from a second pointer member.



21: 2020/03344. 22: 6/4/2020. 43: 5/12/2021
 51: H02J
 71: RAMABULANA, Makhado Ramudzuli
 72: RAMABULANA, Makhado Ramudzuli,
 MONSANTO, Monica Sophia Marques
 33: ZA 31: 2019/02669 32: 2019-04-29

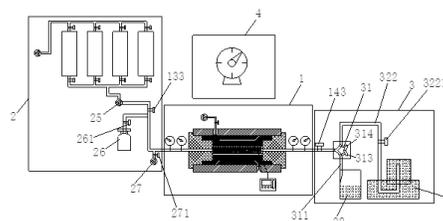
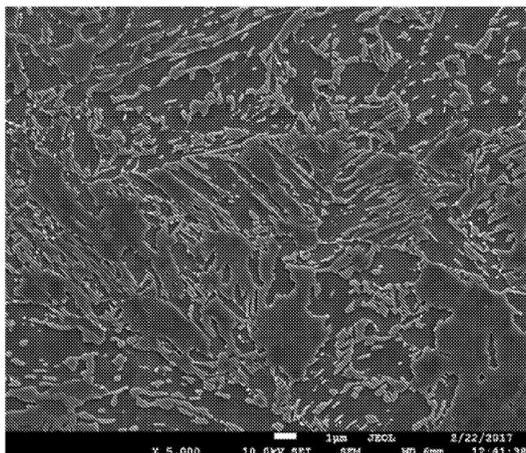
54: MODULAR LOCKER UNIT FOR CHARGING ELECTRONIC DEVICES

00: -
 THIS invention relates to a modular locker unit for charging electronic devices. More specifically, the invention relates to modular locker units having a plurality of charging outlets in each locker compartment, biometric (or other) access and corresponding interlocking formations for interlocking similar adjacent modular locker units.



21: 2020/03349. 22: 04/06/2020. 43: 5/26/2021
 51: C21D; C22C
 71: ARCELORMITTAL
 72: Coralie JUNG, Astrid PERLADE, Kangying ZHU, Frédéric KEGEL
 33: IB 31: PCT/IB2017/058129 32: 2017-12-19
54: STEEL SHEET HAVING EXCELLENT TOUGHNESS, DUCTILITY AND STRENGTH, AND MANUFACTURING METHOD THEREOF

00: -
 A cold-rolled and heat treated steel sheet, having a composition comprising 0.1% # C#0.4%, 3.5%#Mn#8.0%, 0.1%#Si#1.5%, Al# 3%, Mo#0.5%, Cr#1%, Nb#0.1%, Ti#0.1%, V#0.2%, B#0.004%, 0.002%#N#0.013%, S#0.003%, P#0.015%. The structure consists of, in surface fraction: between 8 and 50% of retained austenite, at most 80% of intercritical ferrite, the ferrite grains, if any, having an average size of at most 1.5 μm, and at most 1% of cementite, the cementite particles having an average size lower than 50 nm, martensite and/or bainite.

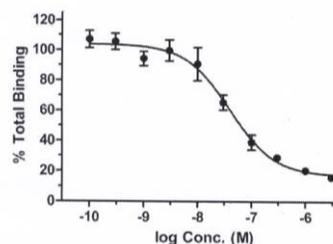


21: 2020/03368. 22: 6/5/2020. 43: 5/13/2021
 51: E21B; G01N
 71: Anhui University of Science and Technology
 72: Huihu LIU
 33: CN 31: 201910745297.7 32: 2019-08-13
54: SIMULATION TEST METHOD FOR DYNAMICALLY MONITORING THE COAL RESERVOIR SENSITIVITY AND THE CONTROL OF DRAINAGE AND EXTRACTION

00: -
 A simulation test method for dynamically monitoring the coal reservoir sensitivity and the control of drainage and extraction, which mainly comprise I. coal sample loading, pipeline flushing and system vacuumizing, II. coal sample initial permeability test, III. coal reservoir water sensitivity simulation test, IV. coal reservoir speed sensitivity simulation test, V. coal reservoir Jiamin simulation test, VI. coal reservoir stress sensitivity test, VII. coupling simulation test of three sensitivities (speed sensitivity, Jiamin, stress sensitivity) of the coal reservoir, VIII. coal reservoir chemical sensitivity (acid sensitivity or alkalinity) simulation test, and other steps. This test method can dynamically monitor the change of permeability in the process that the coal reservoir generates sensitivity during the drainage and extraction of in-situ coalbed methane in real time, and achieve effective management and control of the drainage and extraction of a coalbed methane well, which is high in controllability, easy to install, safe and reliable.

21: 2020/03373. 22: 05/06/2020. 43: 5/13/2021
 51: A01H; A01N; C12N
 71: PIONEER HI-BRED INTERNATIONAL, INC.
 72: LU, Albert L., MEYER, Knut, RAUSCHER, Gilda, WU, Gusui
 33: US 31: 62/609,879 32: 2017-12-22
54: COMBINATIONS OF INSECTICIDAL POLYPEPTIDES HAVING IMPROVED ACTIVITY SPECTRUM AND USES THEREOF

00: -
 Compositions and methods for controlling pests are provided. The methods involve transforming organisms with a nucleic acid sequence encoding an insecticidal protein. In particular, the nucleic acid sequences are useful for preparing plants and microorganisms that possess insecticidal activity. Thus, transformed bacteria, plants, plant cells, plant tissues and seeds are provided. Compositions are insecticidal nucleic acids and proteins of bacterial species. The sequences find use in the construction of expression vectors for subsequent transformation into organisms of interest including plants, as probes for the isolation of other homologous (or partially homologous) genes. The pesticidal proteins find use in controlling, inhibiting growth or killing Lepidopteran, Coleopteran, Dipteran, fungal, Hemipteran and nematode pest populations and for producing compositions with insecticidal activity.



21: 2020/03382. 22: 05/06/2020. 43: 5/13/2021
 51: A61K; C07K; C12N; C12P; A61P
 71: BEIJING HANMI PHARMACEUTICAL CO., LTD.

72: LIU, Jiawang, YANG, Yaping, SONG, Nanmeng, KIM, Maengsup

33: CN 31: 201711261880.8 32: 2017-12-04

54: ANTI-PD-L1/ANTI-CD47 BISPECIFIC ANTIBODY WITH STRUCTURE LIKE NATURAL ANTIBODY AND IN FORM OF HETERODIMER AND PREPARATION THEREOF

00: -

Provided are an anti-PD-L1/anti-CD47 bispecific antibody that has natural IgG characteristics and is in a highly stable heterodimer form without the heavy chain and light chain being mismatched, and a preparation method therefor. Either the first Fc chain or second Fc chain of the bispecific antibody includes amino acid substitutions at positions 366 and 399, and the other includes amino acid substitutions at positions 351, 407 and 409.

21: 2020/03401. 22: 6/8/2020. 43: 4/21/2021

51: A61L

71: Qingdao University

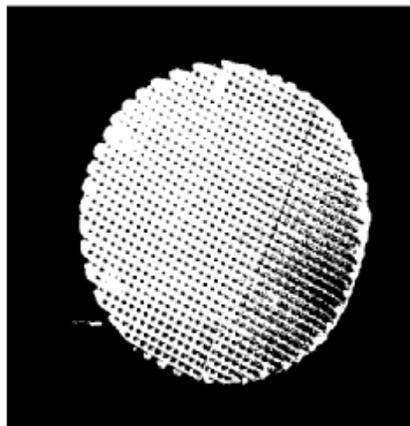
72: XU, Wenhua, DONG, Yanhan, ZHANG, Lixia, FAN, Yuqiao

33: CN 31: 201910871003.5 32: 2019-09-16

54: PREPARATION METHOD OF 4D CHITOSAN-BASED THERMOSENSITIVE HYDROGEL

00: -

The present invention belongs to the technical field of medical material production and preparation, and relates to a preparation method of a 4D chitosan-based thermosensitive hydrogel. First, chitosan is dissolved in acetic acid solution; a chitosan-based thermosensitive hydrogel is printed by a 4D bioprinter and lyophilized after solvent extraction, to obtain lyophilized chitosan; subsequently, aqueous β -sodium glycerophosphate solution is prepared with ultrapure water and β -sodium glycerophosphate, and then aqueous carboxymethyl chitosan solution is prepared with ultrapure water and aqueous β -sodium glycerophosphate solution are charged into and mixed well with aqueous carboxymethyl chitosan solution to prepare a mixture; finally, the lyophilized chitosan is crosslinked with the mixture to obtain the 4D chitosan-based thermosensitive hydrogel. With scientific and reliable principles thereof, the present invention solves a problem that conventional thermosensitive hydrogels have uneven pore sizes, and improves the entrapment efficiency and ability of limbal stem cell.



21: 2020/03402. 22: 08/06/2020. 43: 5/21/2021

51: B05B

71: TECNOLOGIA SUL BRASILEIRA INDUSTRIA DE MÁQUINAS LTDA

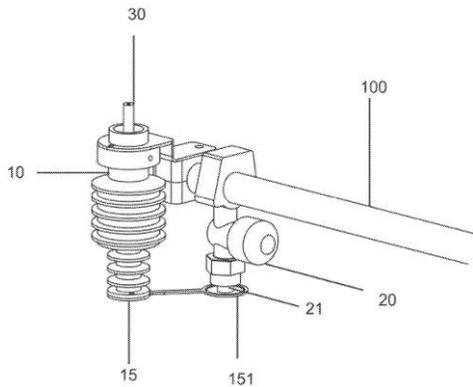
72: MARIN, Adriano, KOZOROSKI VEIGA, Leonardo

33: BR 31: 102017026883-7 32: 2017-12-13

54: INSULATED ELECTROSTATICALLY-ASSISTED SPRAYING EXTENDER

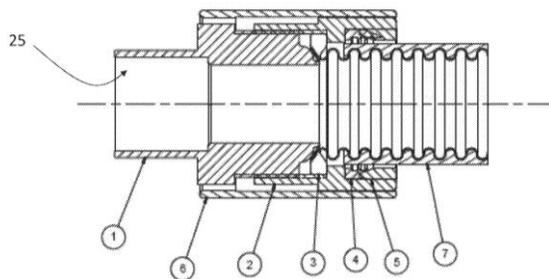
00: -

An insulated electrostatically-assisted spraying extender is described, which is installed in the spray bar of sprayer equipment and positioned adjacent to a hydraulic nozzle (20), which atomizes the spray liquor, said extender (10) being provided with an insulated internal rod (12), with a jacket (111), both the internal rod and the jacket having fins, for the power cable (30) to pass through and for positioning the encapsulated electrical device (13), which supplies the induction electrode (151) with high voltage, said induction electrode surrounding the spout (21) of the hydraulic nozzle (20), resulting in dielectric breakdown and the induction of positive or negative charge in the atomized droplets, eliminating or decreasing the loss of electrical current between the induction electrode (151) and earth in the spray bar (100), as well as making it difficult for electrical current to be lost through the cable (30) due to contact with any part of the structure of the machine.



21: 2020/03410. 22: 08/06/2020. 43: 5/20/2021
 51: A61M; F16L
 71: OMEGA FLEX, INC.
 72: RIVEST, Dean W., ELDER, David R., MOORE, Andrew
 33: US 31: 62/619,186 32: 2018-01-19
54: CORRUGATED MEDICAL TUBING SYSTEM HAVING FITTING WITH ANTI-TAMPER SLEEVE
 00: -

A fitting for use with metal, corrugated tubing having peaks and valleys includes a nut configured to receive the tubing; a sealing member for placement in a valley of the tubing, the sealing member including a sealing surface; an adaptor configured to engage the nut, the adaptor including an adaptor sealing surface; and an anti-tamper sleeve configured to encompass the nut and adaptor; wherein upon assembly, the tubing is compressed between the adaptor sealing surface and the sealing surface.



21: 2020/03428. 22: 08/06/2020. 43: 5/21/2021
 51: A01N; A23K; A23L; A61K; A61P; C07G; C08H
 71: GREEN INNOVATION GMBH, UPM-KYMMENE CORPORATION
 72: LEONARDI, Giuliano, PIETARINEN, Suvi, HÜBSCH, Christian
 33: IT 31: 102017000148931 32: 2017-12-22

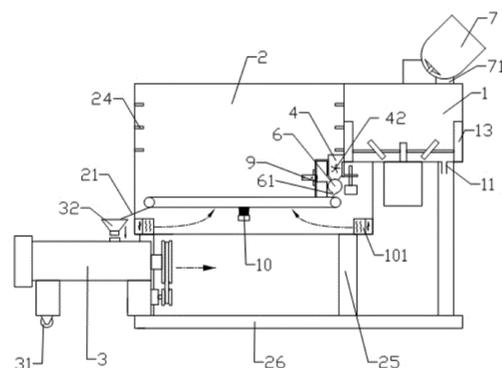
54: USE OF A LIGNIN FRACTION AS A HUMAN AND ANIMAL FOOD SUPPLEMENT INGREDIENT

00: -
 The use of a lignin fraction as a human and animal food supplement ingredient, as well as food supplements comprising the same, are disclosed.

21: 2020/03437. 22: 6/9/2020. 43: 5/21/2021
 51: A01K
 71: Shandong Academy of Agricultural Sciences Animal Husbandry and Veterinary Research Institute
 72: Haitao Sun, Ce Liu, Xuemei Chen, Liya Bai, Zhenguo Lin, Liping Yang, Gongyan Liu, Yin Zhang, Hong Han

54: PET FOOD MACHINE

00: -
 The invention discloses a pet food machine, comprising a mixer, a drying box, a puffing machine and a controller; a feeding through hole is provided between the mixer and the drying box; a feed collecting box is provided at the feeding through hole, and a bidirectional screw conveyor is provided at the lower opening of the feed collecting box; the puffing machine is provided at the left end of the drying box; a conveyor belt is provided in the drying box, and the right end of the conveyor belt is located below the bidirectional screw conveyor; an electric heating device and a fan are provided on both sides below the conveyor belt; shelf plates are provided on side walls of the drying box. The invention has a reasonable structure design and small space occupation, which meets the demands of families for making pet food.



21: 2020/03444. 22: 09/06/2020. 43: 5/21/2021
 51: A61J
 71: WANG, Fang

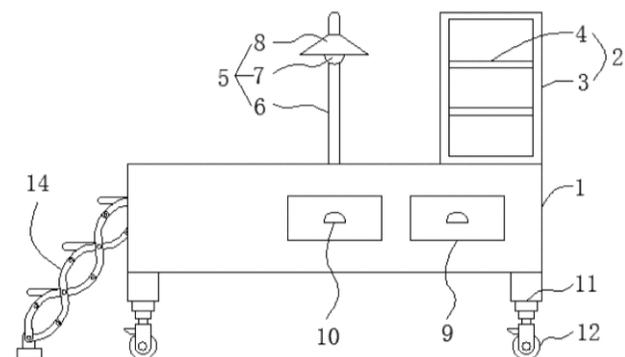
72: WANG, Fang

33: CN 31: 201811587983.8 32: 2018-12-25

54: MULTIFUNCTIONAL DRESSING TABLE

00: -

The invention discloses a multifunctional medicine changing table, which comprises a supporting table, a medicine placing device is arranged at an upper corner of the supporting table, and four elastic components are symmetrically arranged at the bottom corner of the supporting table, and support. A lighting device is provided near the edge on the upper side of the table, and universal wheels are fixedly installed on the bottoms of the four elastic components. An installation cavity is opened at the end of the support table away from the drawer, and the interior of the installation cavity with telescopic ladder.



21: 2020/03457. 22: 09/06/2020. 43: 5/26/2021

51: C02F

71: PRASAD, Vanita

72: PRASAD, Vanita

33: IN 31: 201721040610 32: 2017-11-14

54: AN ECONOMICAL PROCESS FOR PREPARATION OF ANAEROBIC GRANULES FOR WASTE WATER TREATMENT

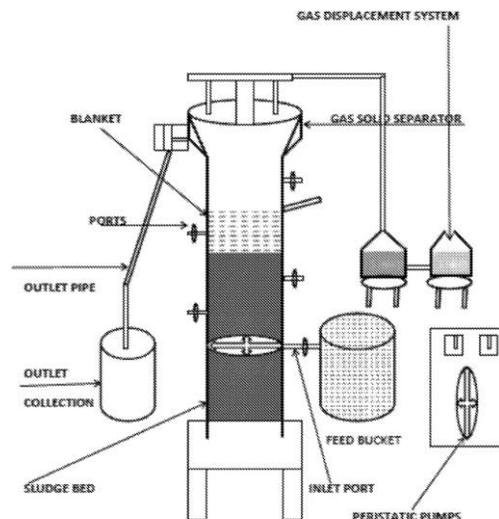
00: -

The present invention relates to an anaerobic formation of granules for waste water treatment. More particularly, the present invention relates to the use and development of microbial consortia for stimulation of anaerobic digestion of organic matter and to a method for enhancing the granulation rate of suspended anaerobic sludge using carbohydrate rich industrial effluent.

21: 2020/03497. 22: 6/11/2020. 43: 5/26/2021

51: H02K

71: Hefei HENGDAJIANGHAI Pump Industry Co. Ltd.



21: 2020/03471. 22: 6/10/2020. 43: 4/21/2021

51: C12N C12P

71: CJ CHEILJEDANG CORPORATION

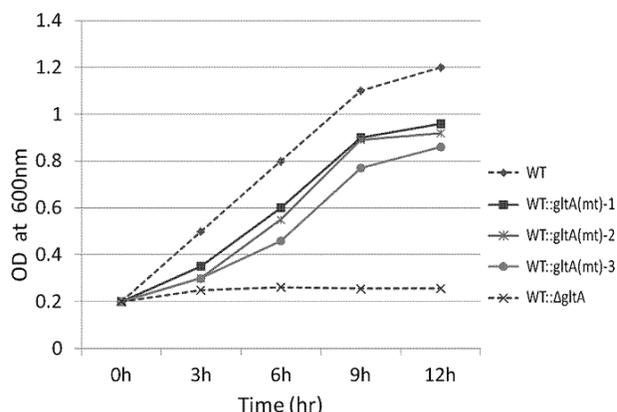
72: JANG, Jaewon, LEE, Kwang Woo, SHIN, Yong Uk, LEE, Imsang

33: KR 31: 10-2018-0017400 32: 2018-02-13

54: MODIFIED POLYPEPTIDE WITH ATTENUATED ACTIVITY OF CITRATE SYNTHASE AND METHOD FOR PRODUCING L-AMINO ACIDS USING SAME

00: -

The present application relates to a modified polypeptide with attenuated activity of citrate synthase and a method for producing aspartate-derived L-amino acids using same.



21: 2020/03497. 22: 6/11/2020. 43: 5/26/2021

51: H02K

71: Hefei HENGDAJIANGHAI Pump Industry Co. Ltd.

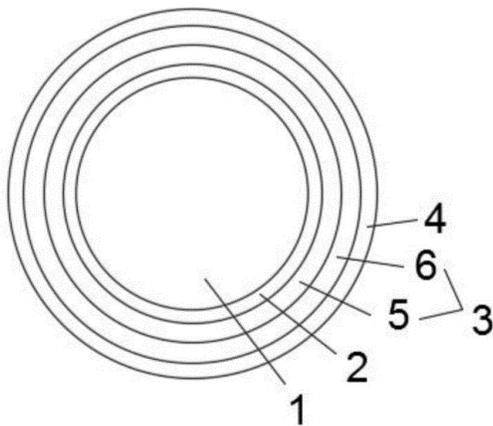
72: Liang liang, Qinglong Zhu, Lei King, Wei Hu, Lianying Lee

33: CN 31: 201910943200.3 32: 2019-09-30

54: WATER-RESISTANT WINDING WIRE AND MANUFACTURING METHOD THEREOF

00: -

The present invention discloses a water-resistant winding wire and a manufacturing method thereof. The water-resistant winding wire comprises a core, an electrical insulating layer, a water-resistant insulating layer and a nylon synthetic resin layer. The water-resistant insulating layer includes a polyamide water-resistant insulating layer and a radiation-crosslinked polyethylene insulating layer. The electrical insulating layer, the polyamide water-resistant insulating layer, the radiation-crosslinked polyethylene insulating layer and the nylon synthetic resin layer are arranged on an outer side of the core in order from the inside towards the outside. The electrical insulating layer includes a polyimide film and a polyamide film. The present invention can improve the breakdown resistance of an insulating layer when the thickness of the insulating layer is reduced, and can increase the proportion of such a winding wire in a stator slot of a motor.



21: 2020/03498. 22: 6/11/2020. 43: 5/27/2021

51: F04C

71: Hefei HENGDAJIANGHAI Pump Industry Co. Ltd.

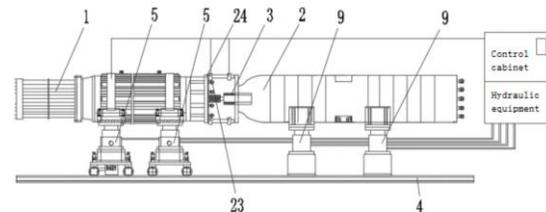
72: Xiaojian Jia, Kangheng Cheng, Fenghui Qian, Chengcheng Wang

33: CN 31: 201911148752.1 32: 2019-11-21

54: LARGE-SCALE PUMP-MOTOR AUTOMATIC DOCKING DEVICE

00: -

The present invention discloses a large-scale pump-motor automatic docking device which comprises a motor, and a water pump wherein a water pump shaft sleeve is arranged at an end to face the motor, and further comprises a base plate, a moving bracket and a fixed bracket, wherein the moving bracket includes a first U-shaped plate movably connected to an upper surface of the base plate, a mounting plate is horizontally movably connected above the first U-shaped plate, a second U-shaped plate is connected above the mounting plate through a first telescopic mechanism, and the second U-shaped plate is used to support the motor; the fixed bracket includes a support block which is fixedly connected to the upper surface of the base plate, and a support plate is connected above the support block through a second telescopic mechanism, the support plate is used to support the water pump. The present invention can adjust a positional relationship between the motor and the water pump to facilitate the docking between the motor and the water pump.



21: 2020/03499. 22: 6/11/2020. 43: 5/27/2021

51: F04C

71: Hefei HENGDAJIANGHAI Pump Industry Co. Ltd.

72: Wei Hu, Lei King, Houlin Liu, Shuai Zhang, Xiaojian Jia

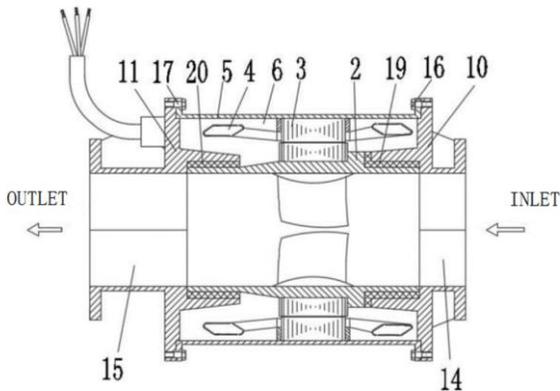
33: CN 31: 201911011444.4 32: 2019-10-23

54: SUBMERSIBLE ELECTRIC PUMP

00: -

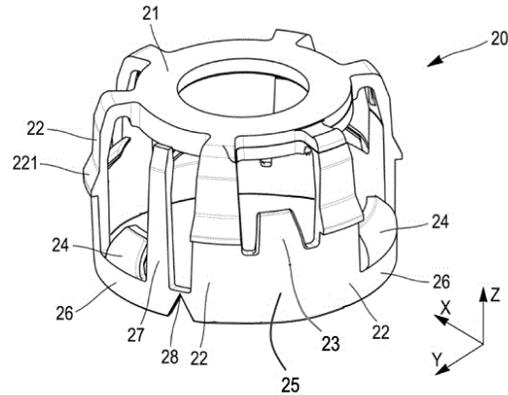
The present invention discloses a submersible electric pump, comprising a water inlet block, a water outlet block, a stator and a rotor, wherein the water inlet block and the water outlet block are respectively provided with a circular water inlet hole and a circular water outlet hole, the stator includes a stator core, a winding wire and a frame, both ends of the frame are respectively fixedly connected to the water inlet block and the water outlet block, the frame is provided with an accommodating space on an inner wall thereof; the stator core is fixedly connected to a

side wall of the accommodating space, and the winding wire is wound around the stator core; the rotor includes a rotor core, a rotating cylinder and an impeller, and the rotating cylinder is rotatably connected within the accommodating space. Since no rotating shaft is provided in the present invention, the water can easily flow in the rotating cylinder without causing entanglement and blockage, and the solid-liquid mixture such as impurity-contained wastewater can be conveyed safely without being affected by the conveying medium.



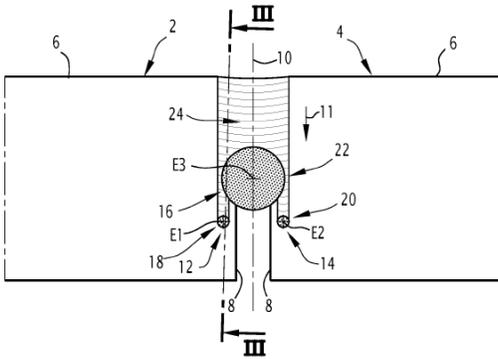
21: 2020/03524. 22: 6/12/2020. 43: 4/21/2021
 51: B65B, A61J
 71: A. RAYMOND ET CIE
 72: REY, Gaëtan, CLAVEL, Maxime
 33: FR 31: 1907696 32: 2019-07-09
54: BREAKABLE LOCKING CAP FOR A CONTAINER COMPRISING A NECK
 00: -

A locking cap for a container including a neck, intended to block a stopper in the neck of the container and including: - an external body having a breakable part; and - a cage (20) which is configured to fit into and lock axially in the external body, and having a breakable zone (28). The cage (20) further includes: - an upper ring (21); - a plurality n of branches (22), which are connected to the upper ring (21) and define therewith a generally cylindrical shape; - n/2 first bridges (25) and n/2 second bridges (26), each interconnecting two adjacent branches (22); and, - at least one opening tab (27), which is supported by a second bridge (26), which is inclined towards the outside of the cage (20) and is oriented towards the upper ring (21), said opening tab (27) being adjacent to the breakable zone, which is located on said second bridge (26).



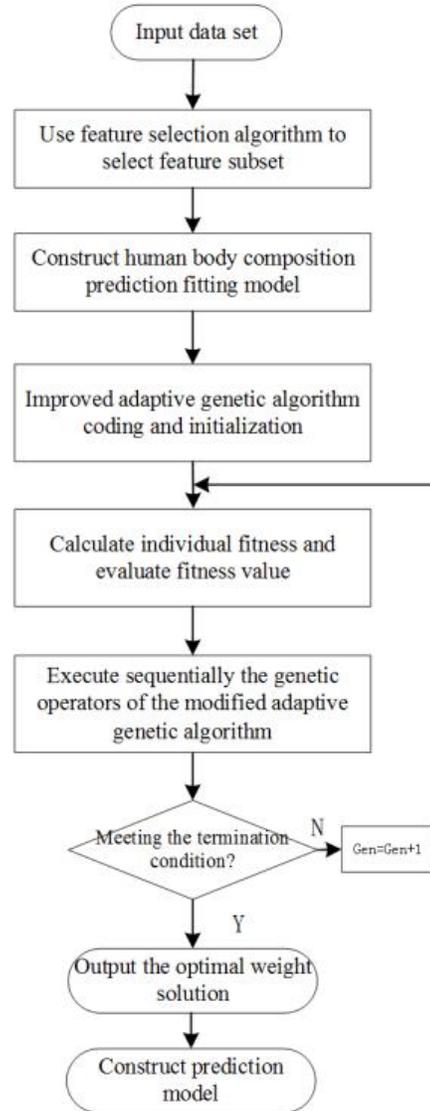
21: 2020/03549. 22: 12/06/2020. 43: 5/12/2021
 51: B23K
 71: ARCELORMITTAL
 72: René VIERSTRAETE
 33: IB 31: PCT/IB2017/058402 32: 2017-12-26
54: METHOD FOR BUTT LASER WELDING TWO METAL SHEETS WITH FIRST AND SECOND FRONT LASER BEAMS AND A BACK LASER BEAM

00: -
 A method of butt laser welding two metal sheets (2, 4) comprises : providing a first metal sheet (2) and a second metal sheet (4), butt welding the metal sheets (2, 4) along a direction of welding, the butt welding step comprising simultaneously emitting : a first front laser beam (12) creating a first front spot (18) at the intersection with the first metal sheet (2), and generating a first front keyhole in the first metal sheet (2) at the first front spot (18), a second front laser beam (14) creating a second front spot (20) at the intersection with the second metal sheet (4), and generating a second front keyhole in the second metal sheet (4) at the second front spot (20), a back laser beam (16) creating a back spot (22) on the first and second metal sheets (2, 4), and generating a back keyhole in the first and second metal sheets (2, 4) at the back spot (22), the first and second front laser beams (12, 14) and the back laser beam (16) being configured in such a manner that at each moment in time, a solid phase region and/or a liquid phase region of the metal sheets (2, 4) remains between the first front keyhole and the back keyhole and between the second front keyhole and the back keyhole.



21: 2020/03550. 22: 4/3/2020. 43: 5/12/2021
 51: G16B
 71: LINGNAN NORMAL UNIVERSITY
 72: GAO, Xiue, CHEN, Bo, SANG, Haitao, CHEN, Shifeng, XIE, Wenxue, ZHANG, Tianshu
 33: CN 31: 201910740852.7 32: 2019-08-12
54: A HUMAN BODY COMPOSITION PREDICTION METHOD BASED ON IMPROVED ADAPTIVE GENETIC ALGORITHM

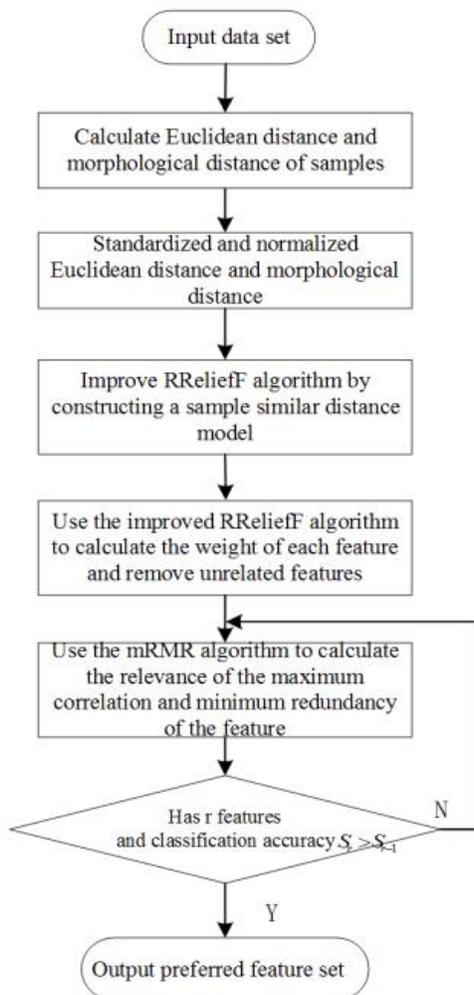
00: -
 The invention relates to the field of biological information technology. A human body composition prediction method is based on a modified adaptive genetic algorithm, including the following steps: 1) construct a human body composition prediction fitting model; 2) use the roulette selection strategy and the optimal retention strategy to improve the genetic operator of the adaptive genetic algorithm to obtain an improved selection operator; 3) based on at least the improved selection operator, the optimal unknown weights of the human body composition prediction fitting model are solved to obtain a human body composition prediction model. The beneficial effect of the present invention is to improve the adaptability of the algorithm by using modified adaptive genetic algorithm, improve the accuracy of the human body component prediction model, and provide a new model reference for human body component prediction.



21: 2020/03552. 22: 4/3/2020. 43: 5/12/2021
 51: G06K
 71: LINGNAN NORMAL UNIVERSITY
 72: GAO, Xiue, CHEN, Bo, CHEN, Shifeng, SANG, Haitao, XIE, Wenxue, ZHANG, Tianshu
 33: CN 31: 201910564314.7 32: 2019-06-27
54: A HUMAN BODY FEATURE PARAMETER SELECTION METHOD BASED ON THE COMBINATION OF IMPROVED RRELIEFF AND MRMR

00: -
 The invention relates to the field of biological information technology. A human feature parameter selection method is based on the combination of improved RRelieff and mRMR, including the following steps: 1) using the improved RRelieff

algorithm based on the sample similarity distance model to calculate the weight of each feature and remove the irrelevant features; 2) using the mRMR algorithm to calculate the relevance of the maximum correlation and minimum redundancy of the feature and remove the redundancy feature. The beneficial effects of the invention are the following aspects: 1) a sample similar distance model which combines Euclidean distance and morphological distance of samples at the same time is constructed, and the RReliefF algorithm is improved; 2) the screening performance of the feature selection algorithm is improved, and it is helpful to obtain human physiological parameters which are greater correlation and smaller redundancy, which in turn helps to build a more simplified and effective prediction model of human body composition.

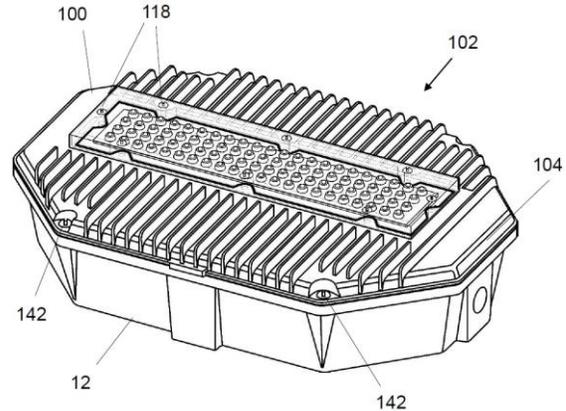
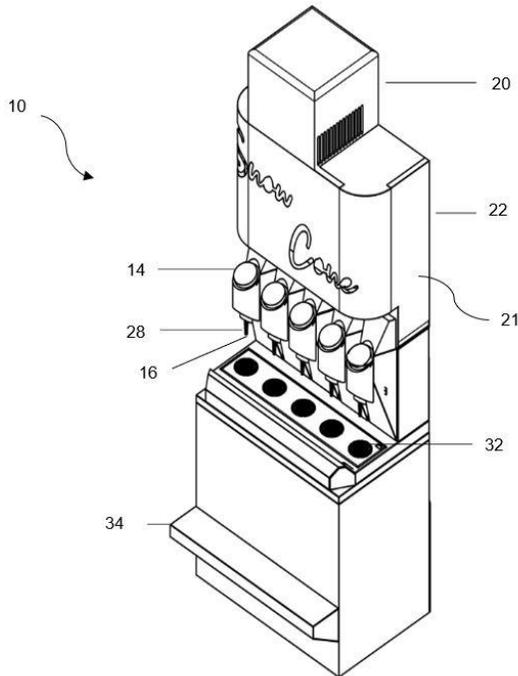


51: A61K
 71: VEROVACCINES GMBH
 72: HÜHRLIMANN, Hans Caspar, BEHRENS, Martina, GEBAUER, Mandy, BREUNIG, Karin, BEHRENS, Sven-Erik
 33: DE 31: 10 2017 012 109.5 32: 2017-12-27
54: OPTIMIZED HOST/VECTOR SYSTEM FOR PRODUCING PROTECTIVE MONO- AND MULTIVALENT SUBUNIT VACCINES ON THE BASIS OF THE YEAST KLUYVEROMYCES LACTIS

00: -
 The invention relates to recombinant Kluveromyces lactis (K. lactis) yeasts which are capable of the highly efficient expression of one or more foreign proteins and are suitable for use as a vaccine for generating a protective immune response against pathogens. The invention provides in particular K. lactis strains for the targeted cloning of foreign antigen-coding nucleic acids into the yeast genome of the K. lactis strain, which is characterized in that the K. lactis strain has integrated expression cassettes for foreign antigens as an alternative or in addition to the KILAC4 locus on the KIURA3-20 locus (KLLA0E22771g) and/or on the KIMET5-1 locus (KLLA0B03938g). The invention further relates to integrative expression vectors and to methods for producing the K. lactis strains of the invention as well as to the use thereof as vaccines.

21: 2020/03566. 22: 6/15/2020. 43: 4/21/2021
 51: A23G
 71: KKC Imports CC
 72: ADLEM, Pieter Willem Adrian
54: SELF-SERVE SNOW CONE MAKER AND DISPENSER

00: -
 A self-serve snow cone maker and dispenser comprising: a flavouring storage unit, for storing two or more flavourings; at least one human operated actuator; and at least one flavouring dispensing outlet, operatively disposed above a crushed or shaved ice container positioning area, in fluid communication with the flavouring storage unit from which each of said flavourings can be selectively dispensed upon actuation of the actuator.



21: 2020/03611. 22: 6/17/2020. 43: 4/30/2021
 51: F21S
 71: GERALD JOSEPH DESIGN CC
 72: SCHEWITZ, Larry

54: COMPONENT FOR A LIGHT FITTING

00: -
 A retrofit component (100) for a light fitting (102) is provided, and includes a plate (104) having a top side (106) with a light source (110) thereon. The light source (110) is sealed against the plate (104). A bottom side (108) of the plate (104) includes formations that cooperate with an existing base (12) of the light fitting (102) to seal the plate (104) against the base (12), the retrofit component (100) thereby replacing both an existing light source (14, 54) and an existing cover (16, 56) of the light fitting (102).

21: 2020/03709. 22: 6/19/2020. 43: 4/21/2021
 51: A23L; B65D; C07B; C07C
 71: LANXESS Deutschland GmbH
 72: SCHÖBBEN, Karl-Joachim, HOFMANN, Christoph, TAUPP, Marcus, VOGL, Erasmus
 33: EP(DE) 31: 17202540.5 32: 2017-11-20

54: ALUMINUM CONTAINER CONTAINING DICARBONATE

00: -
 The invention relates to aluminum containers containing dicarbonates and to a method for producing the packaged dicarbonates.

21: 2020/03723. 22: 1/9/2019. 43: 5/14/2021
 51: D06N; E04F
 71: I4F LICENSING NV
 72: BOUCKÉ, Eddy Alberic
 33: NL 31: 2020254 32: 2018-01-09

54: TILE, IN PARTICULAR CARPET TILE, AND COVERING OF SUCH TILES

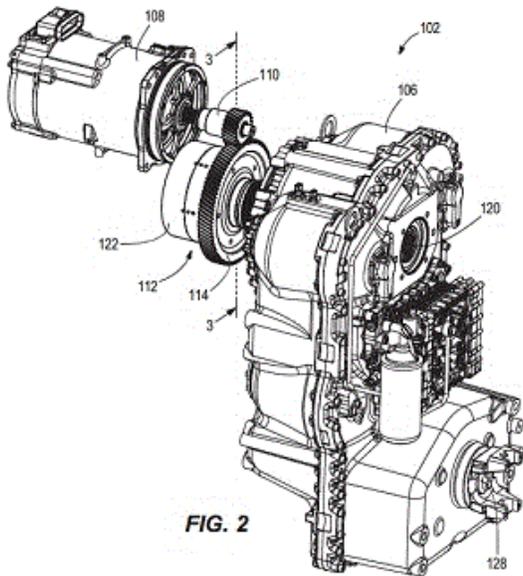
00: -
 The invention relates to a tile, in particular a carpet tile. The invention also relates to the use a tile according to the invention as floor tile, wall tile, or ceiling tile. The invention further relates to a tile covering consisting of a plurality of tiles according to the invention. The invention additionally relates to a carpet covering consisting of at least one carpet tile according to the invention.

21: 2020/03743. 22: 6/22/2020. 43: 4/21/2021
 51: F16D; F16H
 71: DEERE & COMPANY
 72: BINDL, REGINALD M, VILAR, ERIC
 33: US 31: 16/510,805 32: 2019-07-12

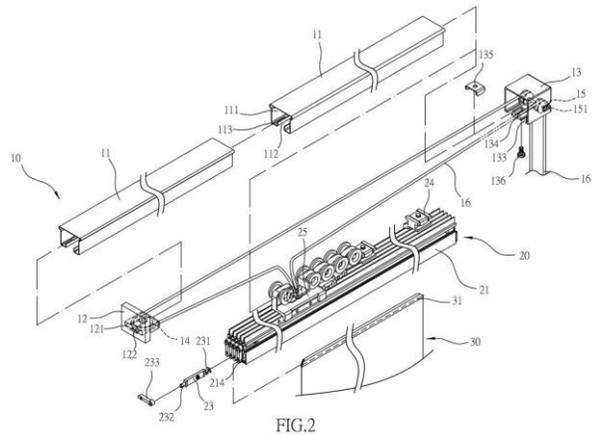
54: POWER SHIFT TRANSMISSION WITH ELECTRIC POWER ASSIST

00: -

A power shift transmission includes an input shaft and a gear housing including a gear assembly disposed therein. The gear assembly is driven by the input shaft. The transmission also includes an output shaft rotated by the gear assembly. The transmission also includes an auxiliary shaft extending through a portion of the gear housing. The auxiliary shaft is rotated by an internal combustion engine. The transmission also includes a clutch assembly movable from a disengaged position to an engaged position. The clutch assembly includes a first clutch portion coupled to the input shaft and a second clutch portion coupled to the auxiliary shaft. The second clutch portion transmits rotational force to the first clutch portion only with the clutch assembly in the engaged position. The transmission also includes an electric motor including an electric motor shaft in geared relationship with the first clutch portion.



which reduces the packaging and shipping costs. Each of the track rods is hollow to form a channel therein, and the channel comprises two vertical guide tracks. The sliding unit comprises a plurality of first sliding bases formed in parallel, and each of the first sliding bases other than the innermost one is connected to a second sliding base. Each of the second sliding bases comprises a pulley support, and each of the pulley supports has at least a pulley set installed thereon. The pulley sets are adapted to slide along the track rods through the guide tracks which have no height difference so as to improve the smoothness of sliding movement of the pulley sets.

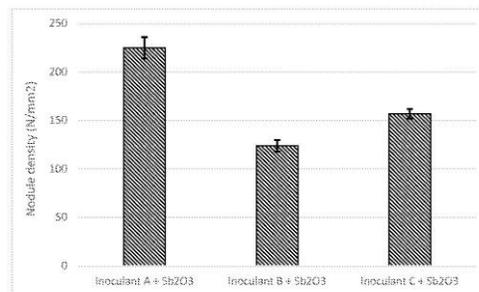
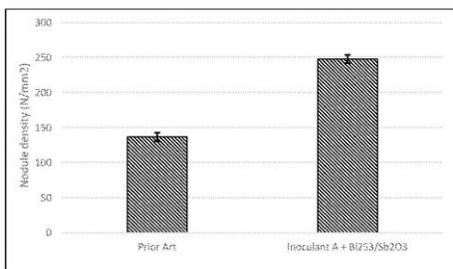


21: 2020/03771. 22: 6/22/2020. 43: 4/21/2021
 51: C21C; C22C
 71: Elkem ASA
 72: OTT, Emmanuelle, KNUSTAD, Oddvar
 33: NO 31: 20172061 32: 2017-12-29
54: CAST IRON INOCULANT AND METHOD FOR PRODUCTION OF CAST IRON INOCULANT
 00: -

21: 2020/03748. 22: 6/22/2020. 43: 4/21/2021
 51: A47H; E06B
 71: ABO WINDOW FASHION CORP., CHUANG, Shan-Chi
 72: CHUANG, Shan-Chi
 33: TW 31: 108209412 32: 2019-07-18
54: WINDOW CURTAIN
 00: -

A window curtain may include a top track, at least a sliding unit, and a plurality of shades, and the top track has at least two track rods sleeved together,

The present invention relates to an inoculant for the manufacture of cast iron with spheroidal graphite, said inoculant comprises a particulate ferrosilicon alloy consisting of between 40 and 80 % by weight of Si; 0.02-8 % by weight of Ca; 0-5 % by weight of Sr; 0-12 % by weight of Ba; 0-15 % by weight of rare earth metal; 0-5 % by weight of Mg; 0.05-5 % by weight of Al; 0-10 % by weight of Mn; 0-10 % by weight of Ti; 0-10 % by weight of Zr; the balance being Fe and incidental impurities in the ordinary amount, wherein said inoculant additionally contains, by weight, based on the total weight of inoculant: 0.1 to 15 % of particulate Bi₂S₃, and optionally between 0.1 and 15 % of particulate Bi₂O₃, and/or between 0.1 and 15 % of particulate Sb₂O₃, and/or between 0.1 and 15 % of particulate Sb₂S₃, and/or between 0.1 and 5 % of particulate Fe₃O₄, Fe₂O₃, FeO, or a mixture thereof, and/or between 0.1 and 5 % of one or more of particulate FeS, FeS₂, Fe₃S₄, or a mixture thereof, a method for producing such inoculant and use of such inoculant.

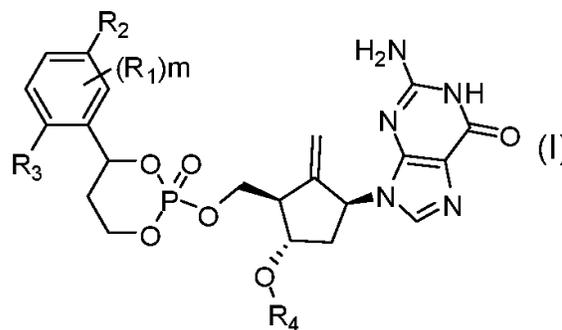


21: 2020/03773. 22: 6/22/2020. 43: 4/21/2021
 51: C21C; C22C
 71: Elkem ASA
 72: KNUSTAD, Oddvar
 33: NO 31: 20172065 32: 2017-12-29
54: CAST IRON INOCULANT AND METHOD FOR PRODUCTION OF CAST IRON INOCULANT
 00: -

The present invention relates to an inoculant for the manufacture of cast iron with spheroidal graphite, said inoculant comprises a particulate ferrosilicon alloy consisting of between about 40 and 80% by weight Si; 0.02-10% by weight Ca; 0-15% by weight rare earth metal; 0-5% by weight Sr; 0-5% by weight Mg; 0-12% by weight Ba; 0-10% by weight Zr; 0-10% by weight Mn; wherein at least one, or the sum, of elements Ba, Sr, Zr, Mn, or Ti is present in an amount of at least 0.05% by weight, the balance being Fe and incidental impurities in the ordinary amount, wherein said inoculant additionally contains, by weight, based on the total weight of inoculant: 0.1 to 15% by weight of particulate Sb₂O₃, a method for producing such inoculant and use of such inoculant.

21: 2020/03787. 22: 22/06/2020. 43: 4/30/2021
 51: A61K; C07D; C07F; A61P
 71: ZHEJIANG PALO ALTO PHARMACEUTICALS, INC.
 72: XI, Zhijian, XU, Huaqiang, LU, Chunping, WU, Zhongshan
 33: CN 31: 201711408937.2 32: 2017-12-22
54: LIVER SPECIFIC DELIVERY-BASED ENTECAVIR PRODRUG, NUCLEOSIDE CYCLIC PHOSPHATE COMPOUND, AND APPLICATION THEREOF

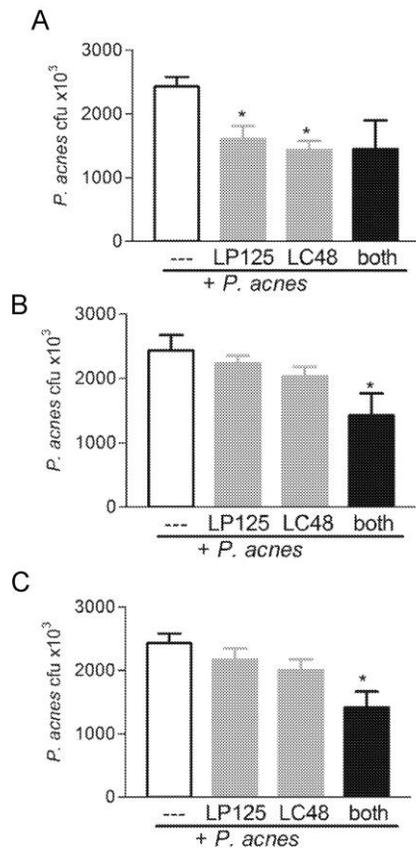
00: -
 Disclosed is a liver specific delivery (LSD)-based entecavir antiviral prodrug, i.e., a nucleoside cyclic phosphate compound, and the application thereof. Specifically, disclosed are a compound as represented by formula (I) and isomers, pharmaceutically acceptable salts, hydrates, and solvates of the compound, and a corresponding pharmaceutical composition. Also disclosed is the application of the compound of the present invention, used separately or used in combination with other antiviral drugs, against viruses, especially the application against hepatitis B virus (HBV).



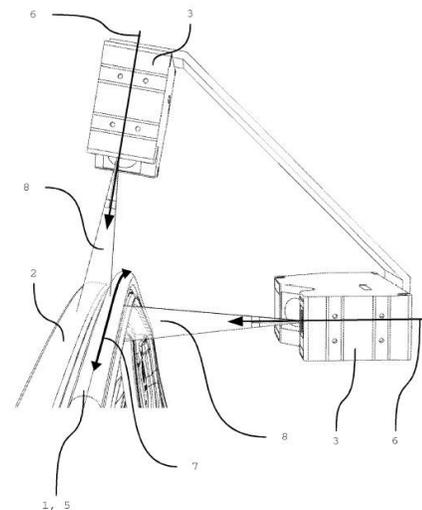
21: 2020/03788. 22: 22/06/2020. 43: 4/30/2021
 51: A61K; A61P; A61Q
 71: LAC2BIOME S.R.L.
 72: BIFFI, Andrea
 33: IT 31: 102017000141330 32: 2017-12-06

54: COMPOSITION BASED ON PROBIOTICS AND USES THEREOF

00: -
 The present invention relates to a composition comprising probiotics, preferably based on bacteria, in particular of the genus *Lactobacillus*, to be used for the purpose of preventing and/or treating the disorders affecting the skin, in particular inflammatory disorders, in particular auto inflammatory disorders of dermatological interest such as atopic dermatitis. Furthermore, the composition of the invention is useful for preventing and/or reducing the damage induced by UV radiation, in particular skin aging.



00: -
 The problem is solved by features of the main claims. Furthermore, the problem is solved by implementing the features of the independent claim. The invention relates to a method for the automated position detection of a seal (1) with respect to a component (2) or at least part of a component (2) during or after the automated application of a seal (2) wherein the relative position of the seal (1) to the component (2) or to at least part of a component (2) is detected by means of a sensor (3). The invention also relates to a device for carrying out the method for the automated position detection of a peripheral or at least partially peripheral seal (1) with respect to a component (2) or at least part of a component (2) by means of at least one sensor (2) during or after applying the seal (1), wherein the at least one sensor (3) is arranged such that the main detection direction (6) is perpendicular to direction of extension (7) of the seal (1) or the component (2) or at least part of the component (2) or at an angle of up to 45 degrees with respect thereto, and the at least one sensor (3) with a detection range (8) detects the seal (1) and/or the component (2) or at least part of the component (2).

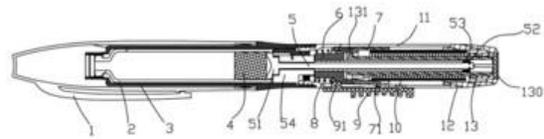


21: 2020/03859. 22: 25/06/2020. 43: 5/26/2021
 51: B23P; B60J; G01B
 71: ATN HÖLZEL GMBH
 72: Philipp RUDOLF, Lukas LANGGÄRTNER, Alexander LAUDAN
 33: DE 31: 10 2018 101 248.9 32: 2018-01-19
 33: DE 31: 10 2018 110 303.4 32: 2018-04-27
54: METHOD AND DEVICE FOR DETECTING THE POSITION OF A SEAL

21: 2020/03878. 22: 25/06/2020. 43: 5/13/2021
 51: A61M
 71: ICU MEDICAL, INC.
 72: FRYMAN, Marshall
 33: US 31: 62/610,742 32: 2017-12-27
 33: US 31: 15/861,204 32: 2018-01-03
54: SYNCHRONIZED DISPLAY OF SCREEN CONTENT ON NETWORKED DEVICES

00: -

A system configured to synchronize the displays of multiple infusion pumps is provided. In some embodiments, the system includes a plurality of infusion pumps in communication with a server. An individual infusion pump synchronizes its internal clock by communicating with the server. Based on the synchronized internal clock, the infusion pump determines the current time, calculates a parameter based on the current time, and causes screen content corresponding to the calculated parameter to be displayed.



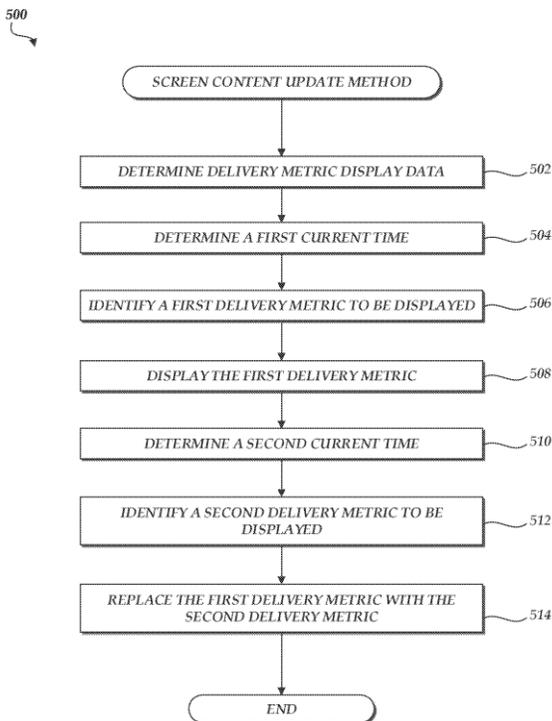
21: 2020/03943. 22: 6/29/2020. 43: 4/21/2021
51: G01N G01R G01V

71: ANDERSON, Dennis, M.
72: ANDERSON, Dennis, M., FUELLING, Stephan, R-K, EHNI, Willian, STRALEY, Dave, B.
33: US 31: 62/621,005 32: 2018-01-23
33: US 31: 62/620,995 32: 2018-01-23
33: US 31: 16/255,566 32: 2019-01-23
33: US 31: 62/621,011 32: 2018-01-23
33: US 31: 62/620,988 32: 2018-01-23

54: ANALYSIS OF POROUS MATERIAL USING LABORATORY CALIBRATED TEST APPARATUS AND SAMPLE DATA

00: -

Test apparatus for testing porous material such as used in roadway base or building foundations may be deployed in the field at various test sites. The test apparatus includes electrodes that contact the porous material under test and a sensor unit that supplies electromagnetic signals to the porous material. Response signals reveal electrical parameters such as complex impedance which can be equated to material properties such as density and moisture content. Reference may be made to empirical correlations made in laboratory tests using the same test apparatus to enable the effects of the test apparatus on the measurement to be accounted for. The electrodes may include flexible coplanar electrodes that reduce air gaps when in contact with the porous material.



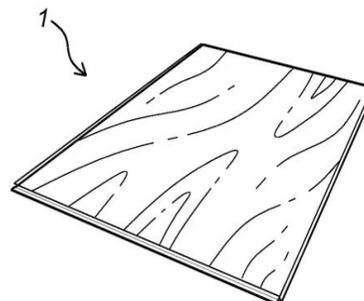
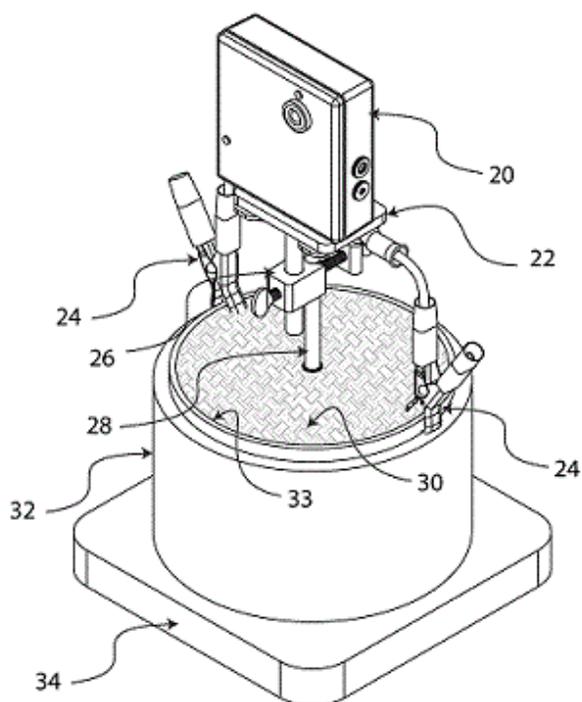
21: 2020/03886. 22: 6/24/2020. 43: 6/11/2021
51: A61B; A61M

71: HANGZHOU GENE ERA BIOTECH CO., LTD
72: WEIMING YU

54: INSULIN INJECTION PEN

00: -

The present invention relates to an insulin injection pen, and belongs to the field of medical equipment. The insulin injection pen comprises a pen cap, a needle head, an injection tube with a built-in piston and pre-filled medicine, an injection sleeve, a positioning clamping block, a threaded rod, a nut tube, a fixed tube, a spiral tube and a button.



21: 2020/03977. 22: 30/06/2020. 43: 5/5/2021
51: B32B; E04F

71: I4F LICENSING NV
72: SÉGUIN, Daniel

33: US 31: 62/622,416 32: 2018-01-26
33: US 31: 62/742,967 32: 2018-10-09

54: FLOOR PLANKS WITH A CORE COMPRISING CALCIUM CARBONATE AND METHODS OF MANUFACTURING THEREOF

00: -

Flooring planks with a core that comprises calcium carbonate. Such planks can also comprise a veneer. The core can also comprise further components such as a resin. Methods of manufacturing same are also disclosed. For example, such flooring planks can be waterproof and/or resistant to moisture and/or heat.

21: 2020/04014. 22: 7/1/2020. 43: 5/28/2021

51: C07C

71: STELLENBOSCH UNIVERSITY

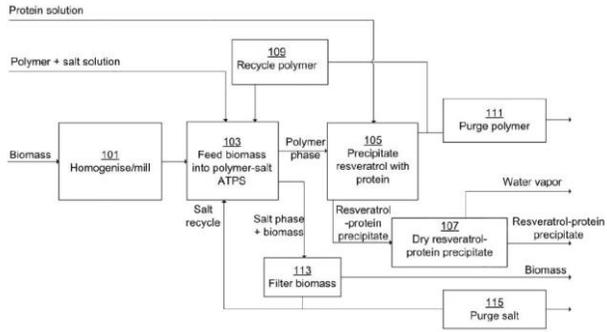
72: POTT, Robert William McClelland

33: ZA 31: 2019/04323 32: 2019-07-01

54: METHOD FOR SEPARATING POLYPHENOLIC COMPOUNDS FROM BIOMASS AND RESULTING PRODUCTS

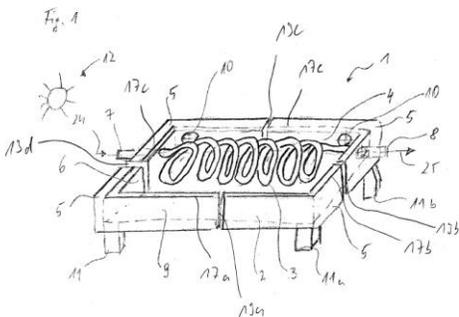
00: -

The invention provides a method for separating a polyphenolic compound such as resveratrol from biomass. The method comprises feeding the biomass into an aqueous two-phase system with a polymer phase and a salt phase and separating the polymer phase which includes the polyphenolic compound from the salt phase. The polymer may be a polyether. The salt may be a tartrate salt, a citrate salt, a carbonate salt, a phosphate salt or a sulphate salt. The biomass may be derived from grape vines, knotweeds, pine trees, peanut plants, cocoa bushes, Vaccinium shrubs; geraniums of the Pelargonium genus, or the herb Polygonum Cuspidatum, for example. The biomass may be derived from winery waste. The polymer phase may comprise 10% (w/w) polyethylene glycol with a molecular weight of 8000 g/mol. The salt phase may comprise 15% (w/w) tartrate salt. The invention extends to medicaments and dietary supplements which include the polyphenolic compound.



21: 2020/04069. 22: 03/07/2020. 43: 5/28/2021
 51: F24D; F24S
 71: RKK BETEILIGUNGS GMBH
 72: Mario KULNIG
54: THERMOSOLAR HOT-WATER PREPARATION SYSTEM
 00: -

The invention relates to a thermosolar hot-water preparation system (1) comprising a closed tank (2) as a hot-water store with a sun-side surface (18) covered by a transparent panel (6) through which sunbeams radiate and heat a liquid (9) in the interior of the tank. The liquid dispenses the energy absorbed from the sunbeams to a heat exchanger (3) transferred through the tank, wherein the hot-water store is a steel sheet tank (2) which is operated without pressure and has a solar-selective coating (4) between the transparent panel (6) and the upper face (18) and the remaining sides (17a-17d) of which as well as the lower face (21) have a thermal insulation made of EPP molded parts (5).



21: 2020/04149. 22: 07/07/2020. 43: 6/2/2021
 51: C21D; C23C
 71: ARCELORMITTAL
 72: Alexandre BLAISE, Pascal DRILLET, Thierry STUREL

33: IB 31: PCT/IB2018/051546 32: 2018-03-09
54: A MANUFACTURING PROCESS OF PRESS HARDENED PARTS WITH HIGH PRODUCTIVITY
 00: -

A process for manufacturing a non-stamped prealloyed steel coil, sheet or blank, comprising the following successive steps : - providing a non-stamped precoated steel coil, sheet or blank composed of a steel substrate covered by a precoating of aluminum, or aluminum-based alloy, or aluminum alloy, wherein the precoating thickness is comprised between 10 and 35 micrometers on each side of the steel coil, sheet or blank, then - heating the non-stamped steel coil, sheet or blank in a furnace under an atmosphere containing at least 5% oxygen, up to a temperature #1 comprised between 750 and 1000°C, for a duration t1 comprised between t1min and t1max, wherein : t1min= 23500/(#1 - 729.5) and t1max= 4.946 x 1041 x #1- 13.08, t1 designating the total duration in the furnace, #1 being expressed in °C and t1min and t1max being expressed in seconds, then - cooling the nonstamped steel coil, sheet or blank at a cooling rate Vr1 down to a temperature #1, then - maintaining the non-stamped steel coil, sheet or blank at a temperature #2 comprised between 100 and 500°C, for a duration t2 comprised between 3 and 45 minutes, so to obtain a diffusible hydrogen less than 0.35ppm.

21: 2020/04167. 22: 7/8/2020. 43: 5/28/2021
 51: A61M; A62B; B63C
 71: DRÄGER SAFETY AG & CO. KGAA
 72: Ugur HAYRAN
 33: DE 31: 102019007408.4 32: 2019-10-24
54: COOLING ELEMENT FOR USE IN A COOLING DEVICE OF A CLOSED-CIRCUIT BREATHING DEVICE
 00: -

The invention relates to a cooling element (100) for use within a cooling device (600) of a circuit breathing apparatus (690), with a first plate-shaped cooling element housing (110) and a second plate-shaped cooling element housing (120). The two cooling element housings each have a liquid-tight closure (112, 122) and are filled or can be filled with a coolant (211). The first cooling element housing has a first plate outer wall (114) and essentially parallel to it a first plate inner wall (116) which is curved in the direction of the first plate outer wall and

which, together with further first side walls (115), form a first cooling element volume (118) for the coolant. The second cooling element housing has a second plate outer wall (124) and essentially parallel to it a second plate inner wall (126) which is curved in the direction of the second plate outer wall and which together with further second side walls (125) form a second cooling element volume (128) for the coolant. The first plate-shaped cooling element housing can be fastened or fastened to the second plate-shaped cooling element housing in such a way that the first plate inner wall and the second plate inner wall lie opposite one another and are arched away from one another.

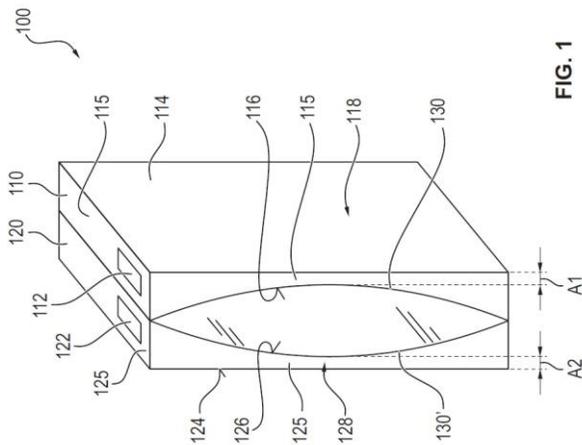
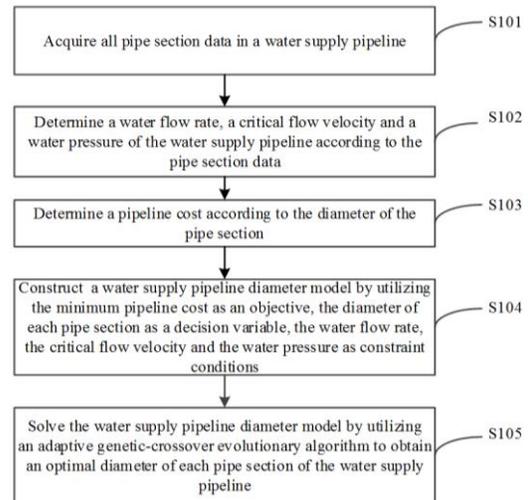


FIG. 1

pipeline cost as an objective, the diameter of each pipe section as a decision variable, the water flow rate, the critical flow velocity and the water pressure as constraint conditions; solving the water supply pipeline diameter model by utilizing an adaptive genetic-crossover evolutionary algorithm to obtain an optimal diameter of each pipe section of the water supply pipeline.



21: 2020/04201. 22: 7/9/2020. 43: 6/9/2021
 51: F16L
 71: JILIN JIANZHU UNIVERSITY
 72: Yingzi LIN, Gen LIU, Lan LIU, Ang LI, Huan LIN
 33: CN 31: 202010025149.0 32: 2020-01-10
54: DIAMETER DETERMINING METHOD AND SYSTEM FOR OLD URBAN WATER SUPPLY PIPELINE

00: -
 A diameter determining method and system for old urban water supply pipeline. Acquiring all pipe section data in a water supply pipeline; determining a water flow rate, a critical flow velocity and a water pressure of the water supply pipeline; determining a pipeline cost according to the diameter of the pipe section, wherein the pipeline cost is the sum of an annual conversion cost, a depreciation and overhaul cost and an operation and management cost of the water supply pipeline; constructing a water supply pipeline diameter model by utilizing the minimum

21: 2020/04282. 22: 13/07/2020. 43: 6/2/2021
 51: B67D
 71: DSI GETRÄNKEARMATUREN GMBH
 72: Mirco WOLTER, Rudolf KLEMM, Stefan SÜLTROP
 33: DE 31: 10 2017 125 248.7 32: 2017-10-27
 33: DE 31: 10 2017 129 912.2 32: 2017-12-14
54: TAP HEAD HAVING A 3/2-WAY VALVE
 00: -

The invention relates to a tap head (1) for connecting to a keg (9), in particular for a bar system, the tap head (1) having a tap head body (3), and a pressurization-gas supply line (7) and a beverage removal line (6) being formed in the tap head body (3), such that a 3/2-way valve (2) is formed directly on or in the tap head body (3) in the pressurization-gas supply line (7), which 3/2-way valve connects either the pressurization-gas supply line (7) from a gas source to the interior of the keg (11) or connects, in a gas-conducting manner, the interior of the keg (11) to the environment (U).

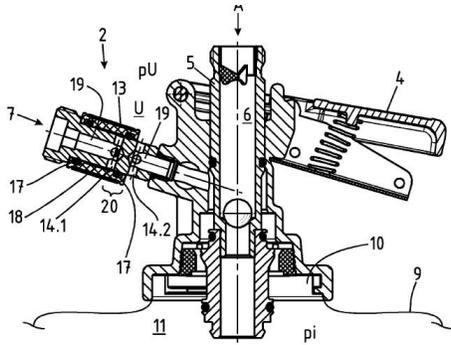
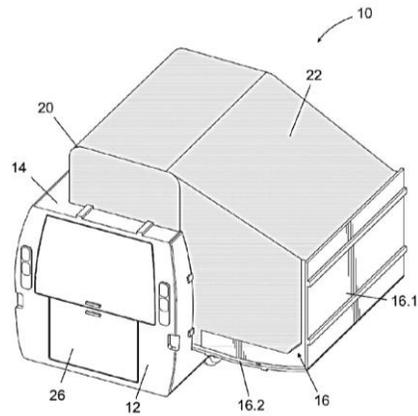


FIG. 4

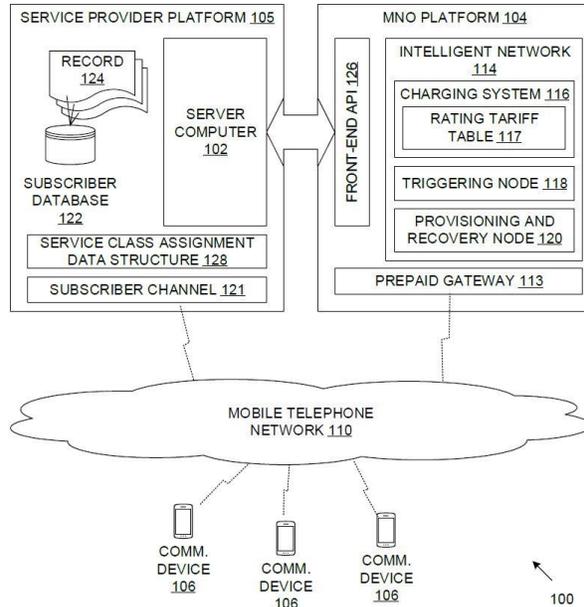
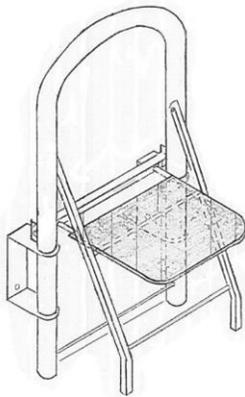


21: 2020/04365. 22: 7/16/2020. 43: 5/14/2021
 51: B60P; B62D
 71: Badger Caravans CC
 72: NIEMANN, Jeffrey
 33: ZA 31: 2019/04634 32: 2019-07-16
54: FOLDOUT TRAVEL TRAILER
 00: -

The invention pertains to a foldout travel trailer comprising a wheeled vehicle with floor, wall and roof panels that in an erected condition of the trailer, define a substantially enclosed space. At least one of the panels comprises a substantially rigid combination panel having one side pivotably mounted to the vehicle by a plurality of hinges for pivoting movement between stowed and deployed positions. The combination panel is cranked intermediate its ends to define contiguous first and second panel sections. When the combination panel is in the stowed position, the first panel section defines part of the wall panel of the trailer and the second panel section defines part of the roof panel of the trailer. When the combination panel is in the deployed position, the first panel section defines a floor panel of the trailer and the second panel section defines a wall panel of the trailer.

21: 2020/04762. 22: 7/31/2020. 43: 5/14/2021
 51: A47K
 71: HUTCHINSON, Hector Errol
 72: HUTCHINSON, Hector Errol
 33: ZA 31: 2019/05036 32: 2019-07-31
54: WALL MOUNTED FOLD UP SEAT
 00: -

The invention relates to a fold up seat configured for wall mounting in a confined space, such as a shower enclosure. The fold up seat comprises a principal support, a mounting assembly, a seat panel pivotably mounted to the support and a seat leg pivotably mounted to the support. The mounting assembly is configured to permit the mounting of the principal support relative to a floor surface, the mounting assembly being configured to permit the principal support to reciprocate between a raised position, in which one end of the support is raised relative to the floor surface, and a lowered position, in which the end of the support is supported on the floor surface.



21: 2020/05069. 22: 8/17/2020. 43: 5/24/2021
51: G06Q; H04W

71: CHANNEL TECHNOLOGIES FZE

72: CHATZISTAMATIOU, Antonios

33: ZA 31: 2020/04133 32: 2020-07-07

54: PROVISION OF DIFFERENT NETWORK USAGE ADVANCE SERVICES TO DIFFERENT CATEGORIES OF SUBSCRIBERS

00: -

A system and method for the provision of different network usage advance services to different categories of subscribers is described. In a method, a request, associated with a subscriber identifier and a service class, to provision a network usage advance is received. A network usage advance enables usage of a mobile telephone network by a prepaid mobile subscriber in advance of received payment. Different categories of subscribers are associated with different service classes which correspond to different network usage advance services. Service class data associated with the service class in the request is obtained. In response to obtaining the data, instruction to cause provision of the network usage advance to an account associated with the received subscriber identifier in accordance with the data may be transmitted. The data is usable by an intelligent network of the mobile telephone network to provision different network usage advance services based on the data.

21: 2020/05070. 22: 8/17/2020. 43: 5/24/2021
51: H04W

71: CHANNEL TECHNOLOGIES FZE

72: CHATZISTAMATIOU, Antonios

33: ZA 31: 2020/03191 32: 2020-05-29

54: TYPE CLASSIFICATION-BASED PROVISIONING OF NETWORK USAGE ADVANCES IN A MOBILE NETWORK

00: -

A system and method for type classification-based provisioning of network usage advances in a mobile network is described. In a method, a trigger notification is received in response to detection of a first predefined condition associated with an account associated with a subscriber identifier. The trigger notification includes the subscriber identifier and a type classification associated with the account. The method includes retrieving credit data associated with the type classification from a subscriber record associated with the subscriber identifier. The retrieved credit data is used to determine data elements associated with a network usage advance. The data elements determined with the retrieved credit data include a quantity value of the network usage advance. An instruction including the data elements is transmitted to cause provisioning of a network usage advance to an account associated with the subscriber identifier and the type classification.

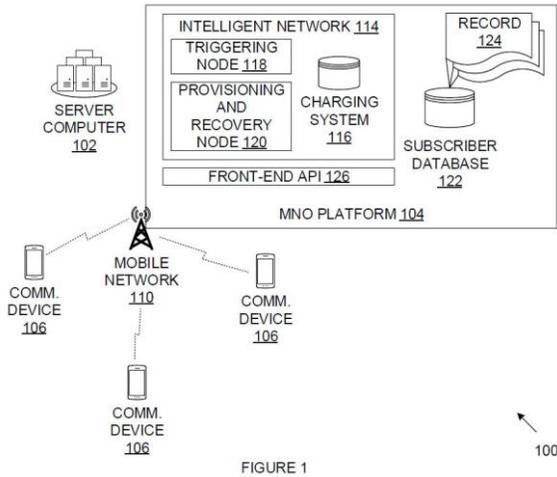


FIGURE 1

21: 2020/05412. 22: 31/08/2020. 43: 3/26/2021

51: F16J; F16L

71: BYRNE, Jeanette

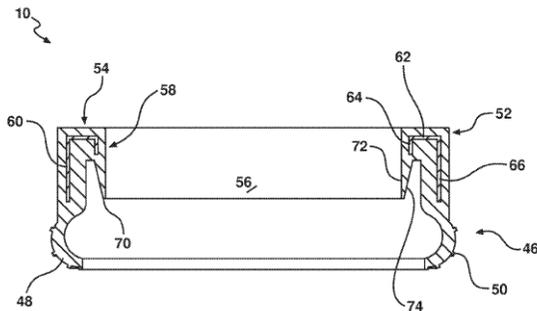
72: BYRNE, David

33: AU 31: 2018900260 32: 2018-01-29

54: HOSE COUPLING SEAL

00: -

There is proposed an annular seal for a pipe coupling, comprising, a lower portion beatable within an upwardly open annular groove in the pipe coupling, an upper portion having an upwardly facing abutment surface, a depending skirt and a stiffening ring. The depending skirt is configured for engagement over a circular upstand of the pipe coupling, which is located inwardly of the annular groove. The stiffening ring is located within the upper portion of the annular seal, and includes an annular portion that is generally parallel with and spaced apart from the abutment surface and at least one circumferential leg depending from the annular portion that provides reinforcement for the depending leg.



21: 2020/05474. 22: 2/25/2020. 43: 6/11/2021

51: F04C

71: QUANZHOU HUADE ELECTROMECHANICAL EQUIPMENT CO., LTD.

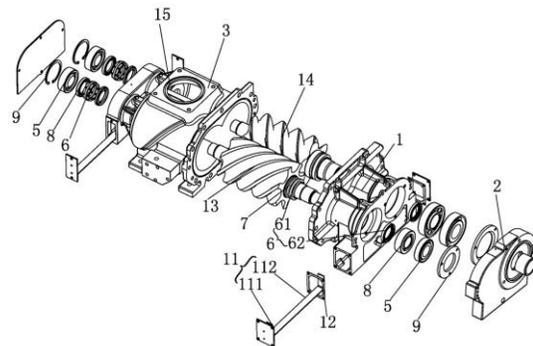
72: HUANG, JUNFENG

33: CN 31: 201910518015.X 32: 2019-06-14

54: HYDRO LUBRICATED SCREW TYPE AIR COMPRESSOR

00: -

The present invention discloses a hydro lubricated air compressor, comprises a motor connection seat, a cap in connection with the motor connection seat, and a housing in connection with the motor connection seat with open inner space; inside the housing, a toothed rotor is provided axially, which comprises a rotating body and a rotating shaft, on the surface of the rotating shaft is provided a spiral groove, direction of the spiral groove is different from that of a toothed bar in the rotating body; between the rotating shaft and the housing, are provided bearings, and between the bearings and the housing is provided mechanical sealing; a first shaft gland is provided at one side of each bearing, and a second shaft gland is provided at the other side of each bearing; between the said first shaft gland and the mechanical sealing is provided a cavity room, at the bottom of the cavity room is provided a water discharging aperture in communication with the outside, and the water discharging aperture is provided at a side of the motor connection seat, where loading capacity is high, which promises equipment safety, and even if water leakage occurs, it can be discharged by the water discharging aperture in the cavity room, to have it timely detected, and when the rotor is rotating, no relative rotation will occur between the rotating body and the rotating shaft.



21: 2020/05623. 22: 9/10/2020. 43: 6/9/2021

51: G06Q

71: Fuyang Normal University

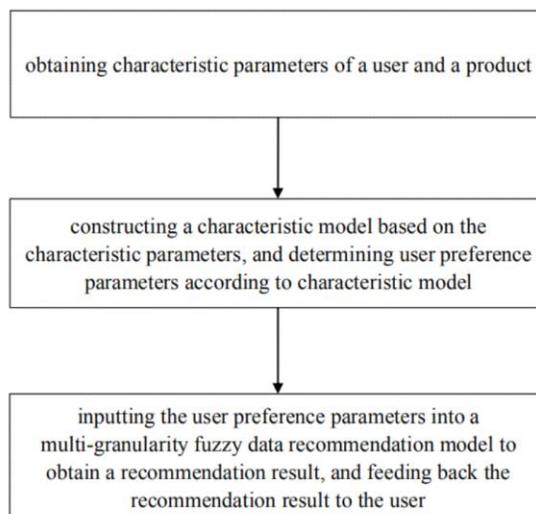
72: Xiuming Chen, Mingxing Peng, Ying Yang

33: CN 31: 201910865268.4 32: 2019-09-12

54: A FRESH AGRICULTURAL PRODUCT RECOMMENDATION METHOD BASED ON MULTI-GRANULARITY FUZZY DATA

00: -

The invention discloses a fresh agricultural product recommendation method based on multi-granularity fuzzy data. The method comprises the steps of obtaining characteristic parameters of a user and a product; constructing a characteristic model based on the characteristic parameters to determine user preference parameters; and inputting the user preference parameters into a multi-granularity fuzzy data recommendation model to obtain a recommendation result, and feeding back the recommendation result to the user. According to the scheme provided by the invention, the user satisfaction is considered based on the similarity between the user preference product and the recommended product. Therefore, in the recommendation process, products meeting the preference behaviors of the user can be recommended, and the optimal recommendation can be generated for the user on the basis. Compared with a current fresh agricultural product e-commerce platform, the method has great practical significance, the conversion rate can be increased, higher benefits can be brought, the user experience can be improved, the user viscosity can be enhanced, and therefore the method has outstanding emphasis in the increasingly intense market of current fresh agricultural product e-commerce competition.



21: 2020/05624. 22: 9/10/2020. 43: 6/9/2021

51: E21B

71: Anhui Jianzhu University

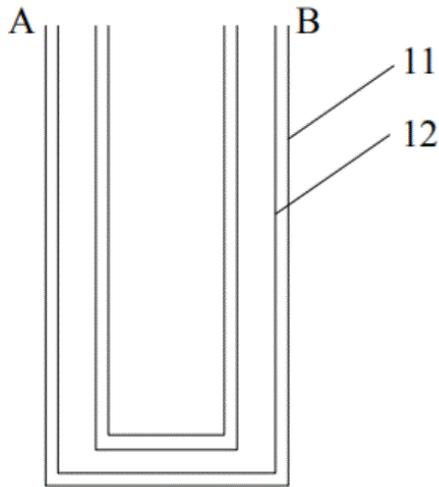
72: Song Chen, Haitao Wang

33: CN 31: 202010702326.4 32: 2020-07-21

54: A DOUBLE-LAYER PIPELINE CONVENIENT TO CLEAN AND A DESCALING DEVICE AND A DESCALING METHOD

00: -

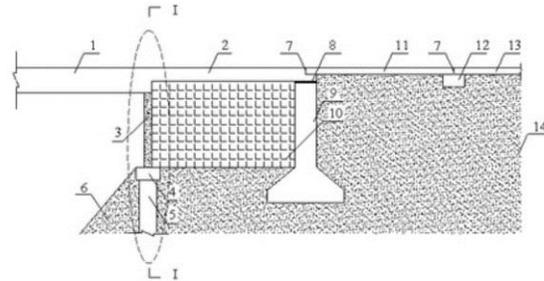
The invention discloses a double-layer pipeline that is easy to clean and a descaling device and a descaling method, belongs to technical field of pipeline descaling. The double-layer pipeline comprises rigid outer pipeline, flexible inner pipeline and a first connecting device, the inner pipeline is coaxially sleeved on inner side of the outer pipeline, and ends of the outer pipeline and the inner pipeline are detachably connected by the first connecting device. In the invention, after separating the inner and outer pipelines, the descaling device is placed into the inner pipeline, thereby the descaling device rotates and moves along the inner pipeline, realizing cleaning of inner pipeline; the descaling device is placed into the outer pipeline, thereby the descaling device rotates and moves along the outer pipeline, realizing cleaning of outer pipeline; moreover, the flexible inner pipeline is taken out of the outer pipeline and re-arranged in a straight line, which not only solves the problem of difficult cleaning of the bent pipeline, but also improves the cleaning efficiency of the pipeline.



21: 2020/05860. 22: 22/09/2020. 43: 6/9/2021
 51: E01D; E02D
 71: FU ZHOU UNIVERSITY
 72: HUANG, Fuyun, CHEN, Wei, LUO, Xiaoye, ZHUANG, Yizhou, LIN, Youwei, HU, Chenxi, CUI, Yulong
 33: CN 31: 201810613757.6 32: 2018-06-14
54: STRUCTURE OF RIGID FRAME BRIDGE HAVING ABUTMENTS AND CONSTRUCTION METHOD THEREFOR

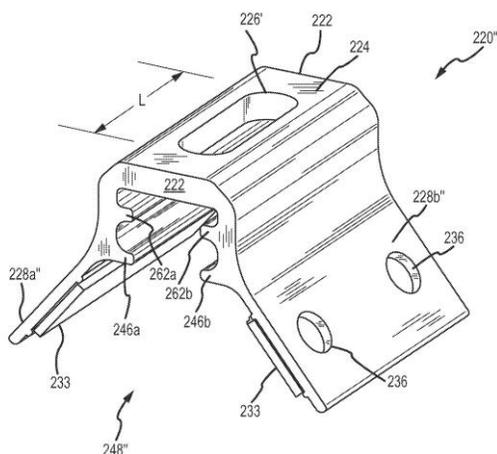
00: -
 A structure of a rigid frame bridge having abutments and a construction method therefor, wherein the structure of the rigid frame bridge having abutments including a girder (1) and a guide beam (2); a thin-walled main abutment (3), a bearing platform (4) and a pile foundation (5) are successive provided below a connection part of the girder (1) and the guide beam (2); a side of the bearing platform (4) and the pile foundation (5) near the girder (1) is provided with a conical slope (6); a soil-retaining secondary bridge abutment (9) is provided below a connection part of the guide beam (2) and a butt strap (11); a side of the soil-retaining secondary bridge abutment (9) near the butt strap (11) is filled with soil filling (14) behind the abutment; a plurality of successively connected butt straps (11), and a sleeper beam (12) disposed below an expansion joint (7) between the butt straps (11) are provided behind the guide beam (2); and light materials (10) are filled between the thin-walled main abutment (3) and the soil-retaining secondary bridge abutment (9). The thin-walled main abutment (3) uses a light and thin-walled structure that may fully absorb the deformation of the girder

(1) so as to reduce the influence of the force on the abutment, and may effectively reduce shearing damage to the abutment and prevent the butt straps (11) behind the bridge abutment from settlement, thus ensuring smooth and comfortable driving.



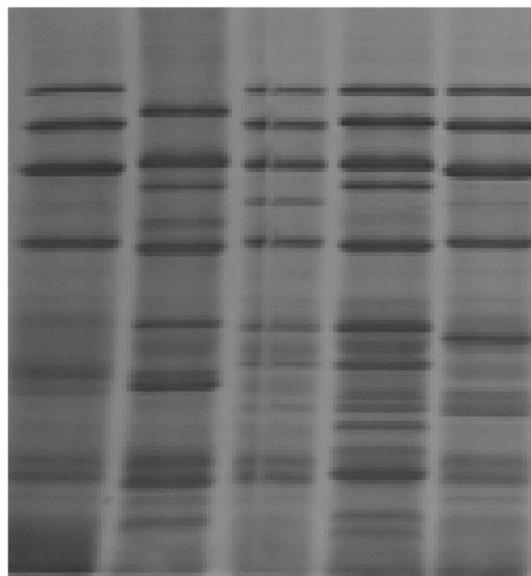
21: 2020/06277. 22: 10/9/2020. 43: 4/9/2021
 51: E04B; F24J
 71: RMH TECH LLC
 72: HADDOCK, Dustin M.M., HADDOCK, Robert M.M.
 33: US 31: 14/500,919 32: 2014-09-29
54: MOUNTING DEVICE FOR BUILDING SURFACES HAVING ELONGATED MOUNTING SLOT

00: -
 A mounting device or bracket (220") for paneled building surfaces is disclosed. The mounting bracket (220") includes an upper wall (224) in the form of a flat surface for supporting various types of attachments. An elongated mounting slot (226") extends through the upper wall (224), and the mounting bracket (220") includes an elongated nut receptacle (260) that is positioned below this elongated mounting slot (226"). With an attachment being positioned on the upper wall (224), an attachment fastener may be directed through the attachment, then through the elongated mounting slot (226"), and then may be threadably engaged with a nut (270) that is positioned within and movable along the nut receptacle (260) in its elongated dimension.



21: 2020/06385. 22: 14/10/2020. 43: 6/11/2021
 51: A01G; A01H
 71: Crop Research Institute, Shandong Academy of Agricultural Sciences
 72: CAO, Xinyou, LIU, Jianjun, LI, Haosheng, CHENG, Dungong, WANG, Libin, WANG, Canguo, SONG, Jianmin, LIU, Aifeng, ZHAO, Zhendong
 33: CN 31: 201910623647.2 32: 2019-07-11
54: INFERIOR-ELIMINATING AND SUPERIOR-SELECTING BREEDING METHOD FOR SYNERGISTICALLY IMPROVING WHEAT YIELD AND QUALITY

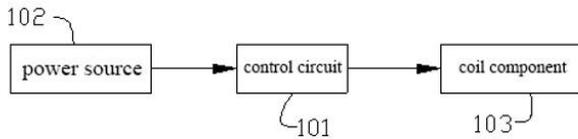
00: -
 The present invention discloses an "inferior-eliminating and superior-selecting" breeding method for synergistically improving wheat yield and quality. A method for breeding target wheat varieties with improved yield and quality is provided herein, which combines the advantages of pedigree method and hybrid method, and provides a method for selection of all generations using molecular marker in combination with phenotype identification, and for selection of each generation according to different standards. Different from the derivative system method, the method reserves the traceability of line history and genetic relationship and the characteristics of simple operation and abundant genetic diversity of the hybrid method. The parents have clear backgrounds before combination and the selection process is simple and easy to operate, with clear goal, especially for those with no breeding experiences, it is easy to master and provides technical support for the rapid breeding of new varieties of high-quality and high-yield wheat.



21: 2020/06386. 22: 14/10/2020. 43: 5/5/2021
 51: A61N
 71: ANTIS HEALTH SCIENCE AND TECHNOLOGY (GUANGZHOU) CO., LTD.
 72: ZHENG, YUNFENG, GENG, KUI
 33: CN 31: 201810253246.8 32: 2018-03-26
54: CENTRAL NERVE MAGNETIC STIMULATION DEVICE AND HEALTHCARE OR MEDICAL INSTRUMENT HAVING SAME

00: -
 Disclosed are a central nerve magnetic stimulation device and a healthcare or medical instrument having same. The central nerve magnetic stimulation device comprises a power source, a control circuit and a coil component, the control circuit comprising a main control chip and a main circuit, the power source supplying power to the control circuit, and the control circuit outputting a time-varying current to the coil component to generate a corresponding time-varying magnetic field. The area of the time-varying magnetic field matches the size of a head, and the time-varying current is output at a frequency above 2000 Hz, and constitutes a rhythmic burst string at a suitable duty ratio or creates an envelope output rhythm characteristic in a difference frequency fashion. The central nerve magnetic stimulation device can apply, to the brain, a rhythmic burst of magnetic stimulations with a weak intensity high-frequency carrier wave and an approximately uniform intensity distribution of a magnetic field and which can arrive at the deep brain, and is used for

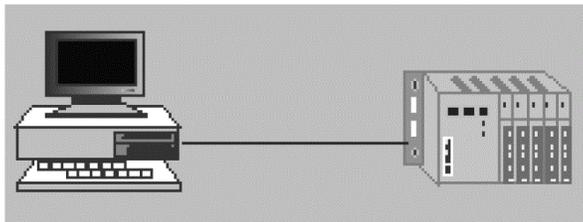
manufacturing a healthcare or medical instrument for improving the functions of the brain and the treatment of brain diseases.



21: 2020/06469. 22: 10/19/2020. 43: 6/11/2021
 51: A24B
 71: Anhui University of Science and Technology
 72: CHEN Wei, XU Jun, LI Kun, DENG Haishun, MA Tianbing

33: CN 31: 201911192343.1 32: 2019-11-28
54: A DISPLAY AND CONTROL DEVICE OF AN AUTOMATIC TEMPERATURE-CONTROLLED TOBACCO LEAF DRYER

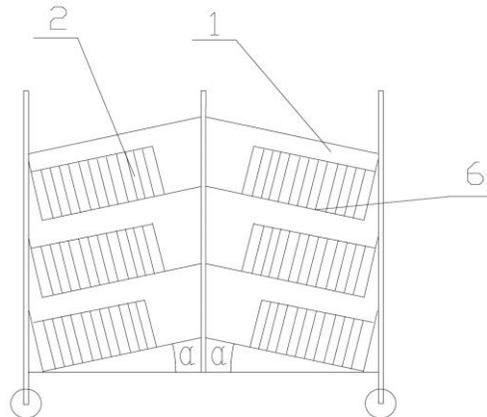
00: -
 The patent of the invention is a display and control device of an automatic temperature-controlled tobacco leaf dryer, which is composed of an industrial computer and a PLC. The display and control device includes the tobacco leaf dryer drying box, multiple front and rear doors, feed belts, crawlers, Discharge belt, sugar and wine ingredients spray device, warning lights, multiple tobacco leaf height sensors, multiple temperature sensors, multiple humidity sensors, feed belt speed sensors, crawler speed sensors, discharge belt speed sensors, front door infrared sensors, Rear door infrared sensor, "emergency stop" and "historical fault query" buttons. It has complete monitoring and protection functions of the tobacco leaf dryer device, with easy operation, complete functions and reliable performance.



21: 2020/06471. 22: 10/19/2020. 43: 6/11/2021
 51: B62B
 71: Huainan Normal University
 72: YU Xia, CHEN Wei

33: CN 31: 201911238083.7 32: 2019-11-21
54: LIBRARY HERRINGBONE AUTOMATIC ALIGNMENT LOADING TROLLEY

00: -
 The patent of the invention is that the library herringbone automatic alignment loading trolley. The baffle of the left and right bookshelf supporting the bottom of the book forms an acute angle (alpha) with the horizontal plane, and the baffle of the left and right bookshelf supporting the bottom of the book forms a chevron; the book storage rack is composed of multiple layers It is composed of a baffle supporting the sides of each layer of books at an acute angle (Beta) with the horizontal plane; the front and back of the trolley form a herringbone structure with a folding stool and a cushion cloth in the middle of the herringbone structure. It realizes the automatic alignment of books. It is easier to read the book title and book mark between the books on each level, and it is more convenient to remove or insert; solves the problem of placing high-level and bottom-level books. Its structure is simple and easy to use.

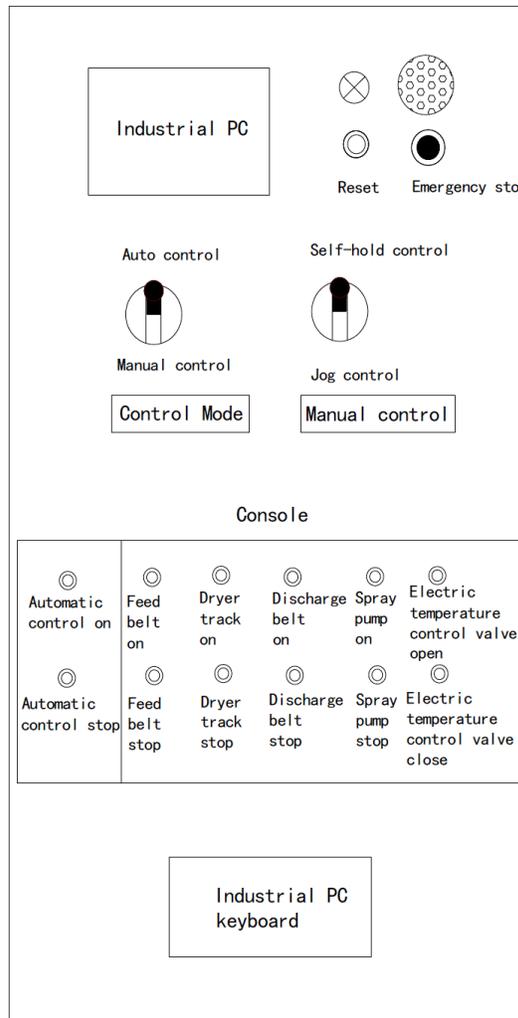


21: 2020/06472. 22: 10/19/2020. 43: 3/11/2021
 51: A24B
 71: Anhui University of Science and Technology
 72: CHEN Wei, LI Kun, XU Jun, DENG Haishun, MA Tianbing

33: CN 31: 201911191192.8 32: 2019-11-28
54: A MONITORING SYSTEM FOR THE AUTOMATIC TEMPERATURE CONTROL TOBACCO LEAF DRYER

00: -

The patent of the invention is a monitoring system for the automatic temperature control tobacco leaf dryer. The main control console includes an industrial computer, indicator light, alarm horn, emergency stop button, reset button, manual control or automatic control selection switch, jog control or Self-maintaining control selection switch, automatic control open button, automatic control stop button, feed belt open button, feed belt stop button, dryer track open button, dryer track stop button, discharge belt open button, discharge belt stop Button, spray pump open button, spray pump stop button, electric temperature control valve open button and electric temperature control valve close button; the tobacco dryer can be monitored through the monitoring system, and the tobacco processing related equipment can be automatically Or manual control. It has complete monitoring and protection functions of the tobacco leaf dryer device, with easy operation, complete functions and reliable performance.



21: 2020/06473. 22: 19/10/2020. 43: 6/11/2021
 51: G01B
 71: JIANGSU SHENTONG VALVE CO., LTD.
 72: LU, Saihao, CHEN, Lin
 33: CN 31: 201811083487.9 32: 2018-09-18
54: DETECTION SYSTEM FOR MEASURING PIPELINE SIZE PARAMETERS AND DETECTION METHOD THEREFOR
 00: -

A detection system for measuring pipeline size parameters and a detection method therefor, comprising: a detection device, a detection platform and a computer, wherein there is at least one detection device, and the detection device is mounted on the detection platform; data collected by the detection device is transmitted to the computer, and the computer obtains pipeline size parameters by means of analysis and calculation and displays the result. The beneficial effects of the present

detection system are as follows: 1. the present detection system simplifies a manual detection process, reduces the intensity of detection operations, reduces human errors, and improves detection accuracy and efficiency; 2. the present detection system has a wide detection range, and is capable of inspecting straight pipes, S-bend pipes, U-bend pipes, and Y-shaped three-way pipelines; 3. the present detection system employs automatic detection, which greatly improves detection efficiency; 4. there are many technical parameters for the pipelines detected by the present detection system which understood all of the technical parameters related to pipeline installation.

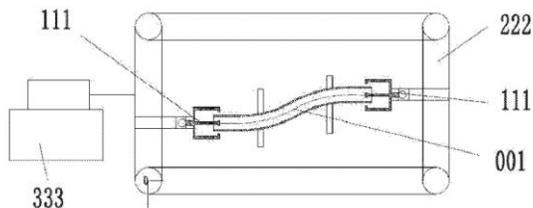
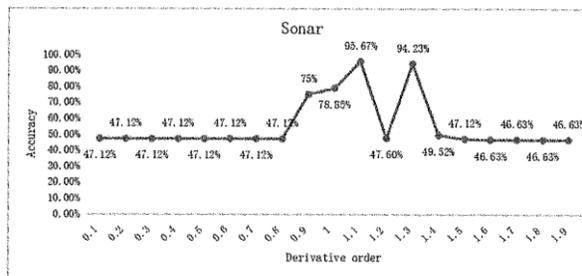


图 1

21: 2020/06566. 22: 10/22/2020. 43: 6/11/2021
 51: G06F
 71: Yunnan University
 72: Chunna Zhao, Licai Dai, Bingyi Wang
54: A DATA CLASSIFICATION METHOD BASED ON FRACTIONAL SEQUENTIAL MINIMAL OPTIMIZATION ALGORITHM
 00: -
 The invention discloses a data classification method based on fractional sequential minimal optimization algorithm, comprising the following steps: simplifying optimization problems in support vector machines; obtaining fractional derivative according to the definition of fractional calculus; substituting the fractional derivative into the optimization problems in support vector machines to obtain fractional expression of the objective function; further calculating to obtain updated value calculation expressions; updating the offset of hyperplane function; processing the data and determining the classification according to decision function. Combining fractional calculus and support vector machines, the integer-order sequential minimal optimization algorithm in the support vector machine is fractionally expanded, and the optimized fractional

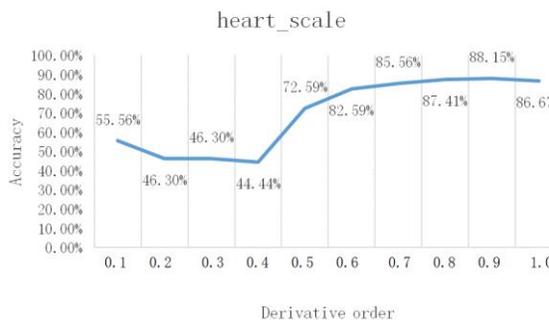
sequential minimal optimization algorithm is used to classify the data, which improves the classification accuracy.



21: 2020/06567. 22: 10/22/2020. 43: 6/11/2021
 51: G06F

71: Yunnan University
 72: Chunna Zhao, Licai Dai, Bingyi Wang
54: DISEASE DATA CLASSIFICATION METHOD BASED ON FRACTIONAL ORDER C-SUPPORT VECTOR MACHINE (SVM)

00: -
 The invention discloses a disease data classification method based on fractional order C-support vector machine (SVM), which classifies heart disease data through a fractional order C-support vector machine. The classification process includes: designing the fractional order gradient vector of the vector machine, selecting the Lagrange multiplier of the vector machine, updating the Lagrange multiplier, updating the set of fractional order derivatives, updating the normal vector and the threshold, and using the normal vector and the threshold as the input of the discriminant function to determine the classification result. The invention uses fractional order C-SVM to classify data with fractional order, and the classification effect is more accurate than that of integer order, and can provide high-accuracy data support for events that rely on the classification result to close the case.



21: 2020/06606. 22: 10/23/2020. 43: 6/1/2021
51: F16F

71: QINGDAO UNIVERSITY OF TECHNOLOGY

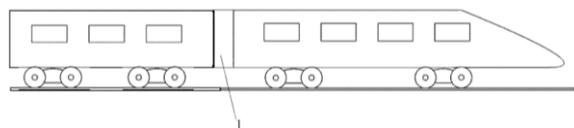
72: ZHANG, Chunwei, WANG, Hao, XU, Yang

33: CN 31: 201911052304.1 32: 2019-10-31

54: ACTIVE CONTROL SYSTEM FOR ROLLING BEHAVIORS OF HIGH-SPEED TRAINS

00: -

The present application relates to vibration control, and more particularly to an active control system for rolling behaviors of high-speed trains. The active control system includes a sensor, controller and output device. The output device includes a power unit, output unit and casing. The casing includes a bottom plate, annular side plate and cover plate, and is further provided with a through hole which penetrates through the bottom plate and the cover plate. The power unit includes a motor and speed-increasing gear set. The speed-increasing gear set includes a main speed-increasing gear and a secondary speed-increasing gear engaged with each other. The main speed-increasing gear is provided on the motor. The output unit includes a rotation inertia ring, a torque transmission ring and a connecting ring. The connecting ring is fixed on the bottom plate. The rotation inertia ring is fixed to the connecting ring through the torque transmission ring.



21: 2020/06900. 22: 05/11/2020. 43: 6/11/2021
51: B01D

71: NANTONG TIANSHI CHEMICAL CO., LTD,

JIANGSU JIUJIUJIU TECHNOLOGY CO., LTD

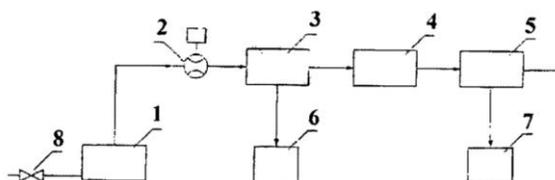
72: LI, Wenjian, ZHOU, Xinji, ZHU, Jianjun, YANG, Rui, WANG, Jinjian, LI, Xunxun, SHAN, Hailin, YU, Tianpeng

54: VARIABLE-PRESSURE DESOLVENTIZING METHOD

00: -

A variable-pressure desolventizing method. In the method, the temperature of a dual-component or multi-component mixed solution in a desolventizing kettle (1) is raised by means of increasing a heating source, so as to enable light components in the

mixed solution to be gasified; the gasification temperature is related to the pressure in the desolventizing kettle (1), and the pressure in the desolventizing kettle is determined by adjustments made to a vacuum pump unit; variable frequency adjustment of the motor speed of the vacuum pump unit is used to adjust the amount of air evacuated, thereby regulating the pressure in the desolventizing kettle (1). The method allows for the highly-effective separation of a multi-component liquid.



21: 2020/06979. 22: 11/10/2020. 43: 6/11/2021
51: C12Q

71: HAINAN UNIVERSITY, XIA Zhiqiang

72: XIA Zhiqiang, ZOU Meiling, WANG Wenquan

54: A SIMPLE, COST-EFFECTIVE AND AMPLIFICATION-BASED WHOLE GENOME SEQUENCING APPROACH

00: -

A sequencing primer set comprising a universal upstream primer, a universal downstream primer and a downstream primer in rich of promoter; wherein the universal upstream primer has a sequence of: 5'-TBarcodeCAAAXXXN-3'; the universal downstream primer has a sequence of: 5'-GACTGCGTACGZZZNNN-3'; the downstream primer in rich of promoter has a sequence of: 5'-GACTGCGTACYNCTATA-3'.

21: 2020/07024. 22: 11/11/2020. 43: 6/11/2021
51: G01N

71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHAO, Zenghui, GAO, Xiaojie, MA, Qing, SUN, Wei, ZHANG, Mingzhong, CHEN, Shaojie, WANG, Qingbiao

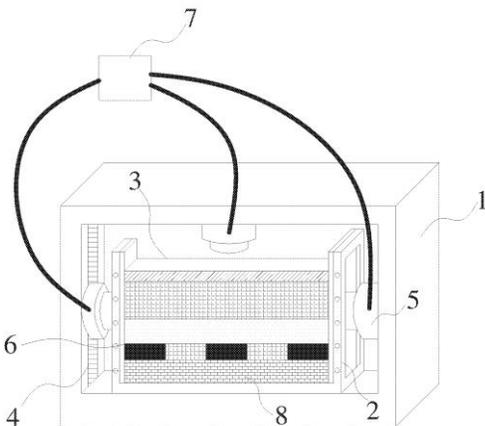
33: CN 31: 201910071131.1 32: 2019-01-25

54: TEST DEVICE AND METHOD FOR SIMULATING BREAKAGE OF ROOF ROCK BEAM

00: -

A test device and method for simulating breakage of a roof rock beam, relating to the technical field of

rock mechanics. The test device included a test box (1), baffles (2), pressure plates (3), a sliding rail (4), pressure heads (5), a monitoring mechanism (6), and a hydraulic mechanism (7); the baffles (2) included a left baffle (21) and a right baffle (22); the pressure heads (5) included an upper pressure head (51), a left pressure head (52), and a right pressure head (53); the monitoring mechanism (6) including a pressure sensor, a displacement sensor, and a three-dimensional digital speckle monitor; the upper part and the left and right sides of the test box (1) are respectively provided with the pressure heads (5); the left pressure head (52) and the right pressure head (53) move up and down along the sliding rail (4); the left pressure head (52) and the right pressure head (53) respectively penetrate through the left baffle (21) and the right baffle (22) and are pressed on the pressure plates (3); the bottom of the test box (1) is provided with a test bench base (11); the left baffle (21) and the right baffle (22) are respectively fixed at the two sides of the test bench base (11); a test body (8) is placed on the test bench base (11). By means of the method for performing a breakage simulation test on the roof rock beam by using the device, the present invention solves the technical problem that the breakage simulation test of the roof rock beam has a large deviation from an actual situation, and also has the advantages, such as being simple to operate and having a wide simulation range.



21: 2020/07122. 22: 16/11/2020. 43: 6/10/2021
51: E02D

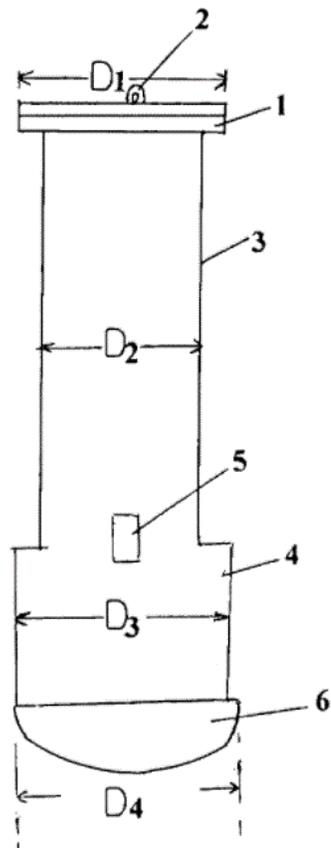
71: ZHU, Jianxin
72: ZHU, Jianxin, XIE, Jingchen, DING, Jianhua, FENG, Xinlin, LU, Guang, BAO, Hua, HONG, Junqing, YAO, Fengxiang, ZHANG, Hongqi, JIANG, Hua, ZHU, Feng
33: CN 31: 201910306483.0 32: 2019-04-17
54: INSPECTION AND CONSTRUCTION METHOD FOR COMPOSITE CEMENT-SOIL PILE
00: -

An inspection and construction method for a composite cement-soil pile, comprising constriction of a peripheral pile and a core pile. The peripheral pile is a first pile, and the core pole is a second pole. The construction method included the following steps: (1) constructing the first pile; and (2) constructing the second pile in the center of the constructed first pile, and inspecting the first pile while forming the second pile.

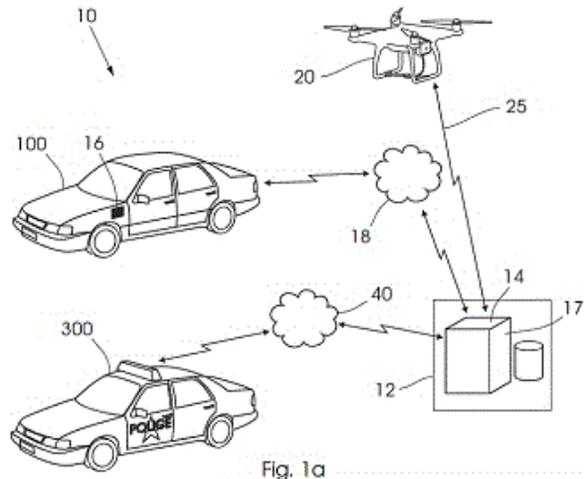
21: 2020/07123. 22: 16/11/2020. 43: 6/10/2021
51: E02D

71: ZHU, Jianxin
72: ZHU, Jianxin, XIE, Jingchen, DING, Jianhua, FENG, Xinlin, LU, Guang, BAO, Hua, HONG, Junqing, YAO, Fengxiang, ZHANG, Hongqi, JIANG, Hua, ZHU, Feng
33: CN 31: 201910306498.7 32: 2019-04-17
54: METHOD FOR CONSTRUCTING FULL-CASING FULL-ROTARY INTERNAL-RAMMING PILE
00: -

Disclosed is a method for constructing a full-casing full-rotary internal-ramming pile, comprising the following steps: (I) moving a machine into position; (II) sinking a pipe; (III) performing declogging, bottom cleaning, and bottom sealing, and pouring a pile body; and (IV) pulling out an outer pipe to form a pile. The construction of the present invention is convenient and features good performance.



wherein the tracking module is configured to implement a tracking function whereby, when the UAV is flown to a location at/near the object, it locks in on the object and tracks the object automatically. The second communication module is configured to send geographic location information on a current location of the UAV in real-time to the first communication module.



21: 2020/07376. 22: 11/26/2020. 43: 5/31/2021
 51: H04W; G08B
 71: CROWN, HAROLD
 72: CROWN, HAROLD
 33: ZA 31: 2019/07006 32: 2019-10-24
54: TRACKING METHOD AND SYSTEM
 00: -

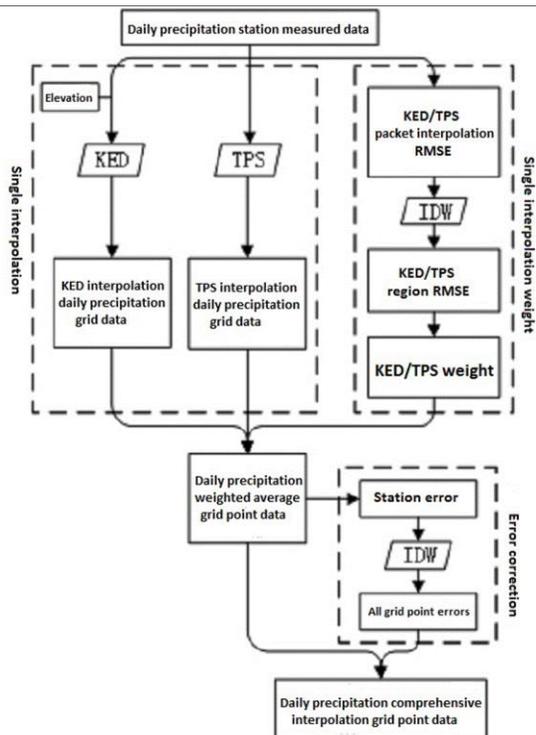
A tracking system and method for tracking an object such as a vehicle. The system includes a response module which is configured to receive/identify a security trigger which is related to the object. The system also includes a first communication module which is configured to receive geographic location information, which relates to a current location of the object, from a tracking device which is secured to, or installed in, the object. The system further includes an unmanned aerial vehicle (UAV) which includes a second communication module which is configured to communicate with the first communication module via a wireless communication network/link/channel. The system also includes a tracking module which is configured to control the operation of the UAV,

21: 2020/07526. 22: 12/3/2020. 43: 6/11/2021
 51: G06F

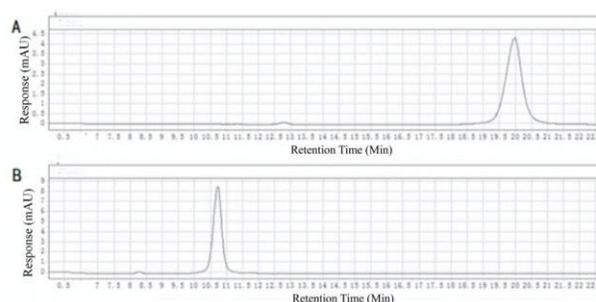
71: Hohai University
 72: Wen Wang, Ran Pang, Jingjing Sun
 33: CN 31: 202011183497.7 32: 2020-10-29
54: A COMPREHENSIVE INTERPOLATION METHOD FOR DAILY PRECIPITATION DATA
 00: -

The invention discloses a comprehensive interpolation method for daily precipitation data, relates to hydrology technology field, based on the daily precipitation data and elevation data of all stations in the study area, the external drift Kriging interpolation method KED and thin plate spline interpolation method TPS are used to obtain single interpolation grid data; obtaining the interpolation error of observation stations based on the grouped cross-check, and using the inverse distance weighted IDW method to obtain the root-mean-square error RMSE of the whole area to calculate the weight of the KED and TPS single interpolation grid point data, and the weighted average of the two to obtain the weighted average interpolation grid point data CI; finally, calculating the CI error at the observation stations, and use the IDW method to

interpolate the error to all grid points for error correction of the weighted average interpolation grid point data CI, and obtaining the final daily precipitation comprehensive interpolation grid point data CCI. The invention can make full use of station observation data, and realize high spatial resolution daily precipitation grid data interpolation calculation.



column; 250 mm*4.6 mm, 5 micrometres; mobile phase: water-acetonitrile-methanol solution, and the volume ratio thereof is water:acetonitrile:methanol = 45-46:45-46:8-10; flow rate: 0.8-1.0 ml/min; detection wavelength: $\lambda=270$ nm; column temperature: 38-40C; injection volume: 18-20 ul; determining the peak area of the zearalenone standard solution, drawing a standard curve, and calculating the regression equation; determining the peak area of the test solution, and obtaining the ZEN toxin content in wheat scab grains through the regression equation. The detection method of the invention has good recovery rate, high linear relationship, convenient operation and easy promotion.



21: 2020/07527. 22: 12/3/2020. 43: 6/11/2021
51: G01N

71: Anhui Agricultural University

72: Can Chen, Jie Lu, Kun Liang, Hongqi Si, Chuanxi Ma

33: CN 31: 202010587865.8 32: 2020-06-24

54: METHOD FOR DETECTING ZEN TOXIN IN WHEAT SCAB GRAINS

00: -

The invention relates to the technical field of analytical chemistry, in particular to a method for detecting ZEN toxin in wheat scab grains. The steps include: preparation of a zearalenone standard solution; preparation of a test solution; the wheat scab grains are diluted with mobile phase after being extracted, column cleaned up, and dried, and then passed through an organic filter membrane; collecting the filtrate to be the test solution; HPLC-DAD detection; chromatographic conditions: chromatographic column: C18 chromatographic

21: 2020/07696. 22: 12/9/2020. 43: 5/19/2021
51: A01G; C09K

71: INSTITUTE OF AGRICULTURAL RESOURCES AND ENVIRONMENT, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES

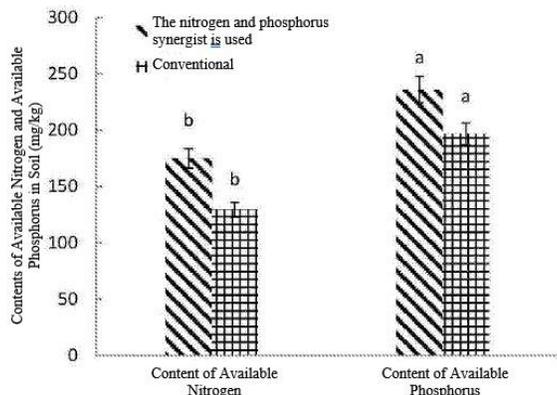
72: JING, YONGPING, LI, YAN, LUO, JIAFA, ZHANG, YINGPENG, HU, HAO, BO, LUJI, ZHONG, ZIWEN, SUN, MING

54: NITROGEN AND PHOSPHORUS SYNERGIST CONTAINING EARTHWORM HYDROLYSATE AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention belongs to the technical field of agriculture and particularly relates to a nitrogen and phosphorus synergist containing earthworm hydrolysate and a preparation method and application thereof. The nitrogen and phosphorus synergist containing earthworm hydrolysate of the present invention comprises the following components in part by weight: 15-20 parts of earthworm hydrolysate, 4-5 parts of phytase, 15-20 parts of citric acid, 20-50 parts of potassium fulvic acid and 20-25 parts of polyaspartic acid. The nitrogen and phosphorus synergist can be prepared

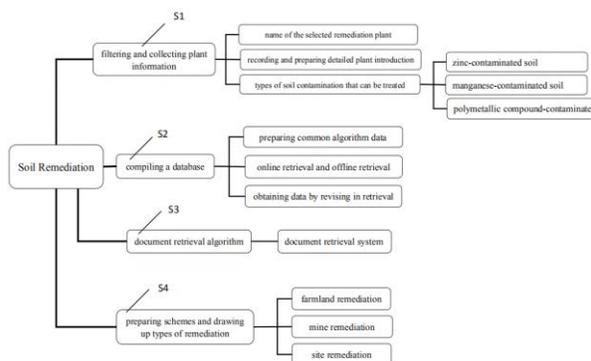
into liquid, powder or granules as required. The nitrogen and phosphorus synergist of the present invention has the functions of improving the effect of nitrogen and phosphorus fertilizers, reducing the application amount of nitrogen and phosphorus fertilizers and reducing nitrogen and phosphorus non-point source pollution in agricultural production.



21: 2020/07862. 22: 12/17/2020. 43: 6/10/2021
 51: B09B
 71: Taizhou University, Zhejiang Yiyuan Environmental Technology Engineering Co., Ltd.
 72: Wanqin Yang, Qinyuan Zhang, Qiaoyan Xu, Shanni Zhu, Mengdan Chai, Wenhua Huang, Min Xu
 33: CN 31: 202010619109.9 32: 2020-06-30
54: A PLANT DATABASE USED FOR REMEDIATION OF HEAVY METAL CONTAMINATED SOIL

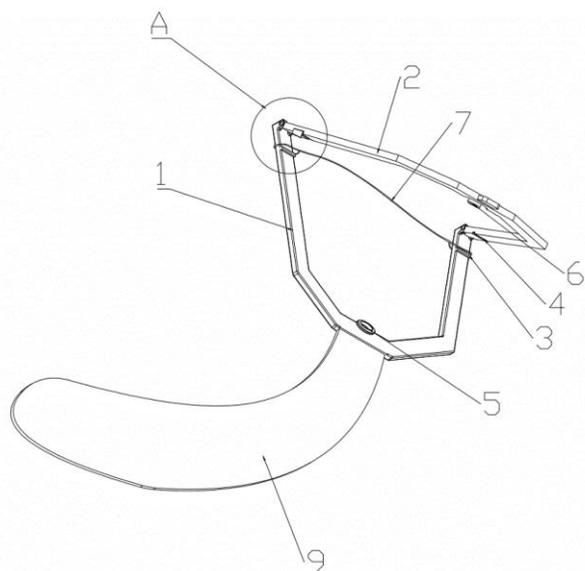
00: -
 The invention provides a plant database used for remediation of heavy metal contaminated soil, which belongs to the technical field of environmental protection. This invention comprises the following steps: filtering, collecting information of hyperaccumulator as comprehensively as possible to establish database for improving the filtering ability; preparing to compile a background plant information database for the subsequent call of data; preparing detailed treatment schemes and drawing up different remediation types according to the different topographies, and classifying the same remediation type; preparing database, and according to required data information obtained from the database, performing planting experiments after manual filtering, which carried out manually for improving planting efficiency, and the data needs to be revised regularly. The invention prepares the

required database for searching soil contamination remediation to facilitate the subsequent treatment by providing retrieval services.



21: 2020/07864. 22: 12/17/2020. 43: 6/10/2021
 51: A61C
 71: Peng Li
 72: Peng Li
 33: CN 31: 202020029692.3 32: 2020-01-08
54: DENTAL FLOSS STICK

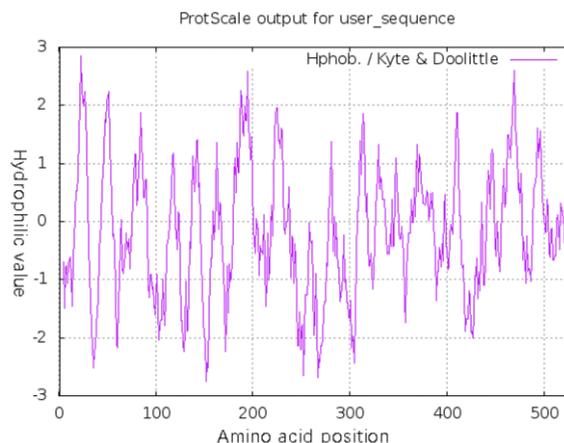
00: -
 The invention discloses a dental floss stick, comprising an upper piece and a lower piece, wherein both the upper piece and the lower piece are U-shaped; the top of both ends of the opening of the upper piece and the top of both ends of the opening of the lower piece (are rotatably connected; the upper part of both ends of the opening of the upper piece is provided with a bulge, and the upper part of both ends of the opening of the lower piece is provided with a groove corresponding to the bulge; the middle part of the upper piece is provided with a female buckle, and the middle part of the lower piece is provided with a male buckle matching the female buckle; the upper part of both ends of the opening of the upper piece is provided with a dental floss; the dental floss is wound on the upper piece, and the winding place of the dental floss and the upper piece is located on the upper side of the bulge; the upper part of either end of the opening of the lower piece is provided with a blade; the blade is located at the groove, and the blade has the function of cutting the dental floss; the middle part of the upper piece is provided with a handle. The invention has simple structure and convenient use. It is convenient to replace dental flosses, which avoids waste of dental floss sticks, and has high practical value and promotion value.



21: 2020/07866. 22: 12/17/2020. 43: 6/10/2021
 51: C12N
 71: Research Institute of Resource Insects, Chinese Academy of Forestry
 72: Hang Chen, Pengfei Liu, Xiaofei Ling, Qin Lu, Weiwei Wang, Jinwen Zhang, Juan Liu, Yongzhong Cui, Xiaoming Chen
54: CYP18A1 GENE AND ITS APPLICATIONS OF ERICERUS PELA CHAVANNES

00: -
 The invention relates to the CYP18A1 gene and its applications of *Ericerus pela* Chavannes, belonging to the technical field of genetic engineering. The nucleotide sequence of the CYP18A1 gene of *E. pela* is shown as SEQ ID NO.1 and the sequence of the encoded protein is shown as SEQ ID NO.2. The CYP18A1 gene has a significant impact on the growth and development of the *E. pela* in the larval stage. Once the expression of CYP18A1 interferes is reduced, the *E. pela* develops slowly. And the body length, width, and surface area of *E. pela* are significantly smaller than that of control groups, proving that the gene or derivatives can regulate the growth and development speed of *E. pela*. It prolongs the wax secretion time of *E. pela*, thereby screening fine germplasm source to cultivate an improved variety of the *E. pela* to increase production of the white wax. Our invention has a great significance to reduce the dependence of wax production on climate and environment, to the mining of new biological resources and the

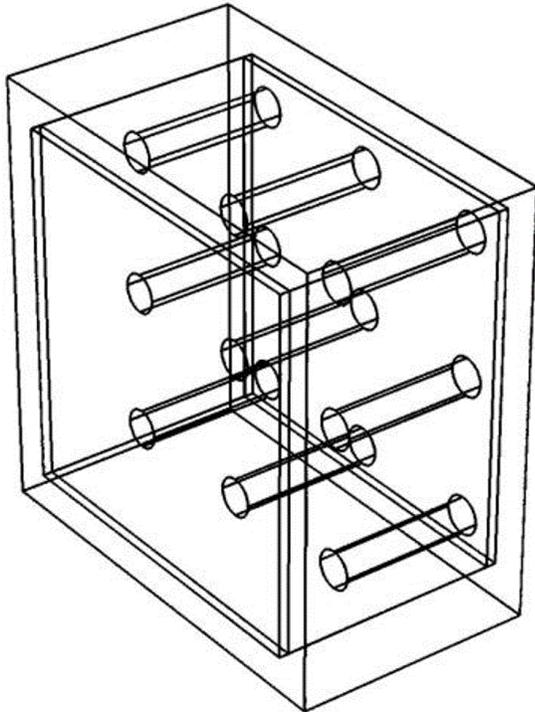
promotion of the development of the white wax industry.



21: 2020/07867. 22: 12/17/2020. 43: 6/10/2021
 51: E06B
 71: Shanxi Datong University
 72: Tianhua Meng, Hongmei Liu, Yuhe Lu, Wenyu Li, Jianguang Ren
54: PASSIVE THERMAL STORAGE DOOR OR WINDOW FOR OPEN-AIR CULTURAL RELICS BASED ON PHASE CHANGE MATERIALS

00: -
 The invention provides passive thermal storage door or window for open-air cultural relics based on phase change materials, wherein the thermal storage door or window comprises a wooden frame, a periodic cylindrical A1 tube array filled with phase change materials, and two pieces of glass of which the shape is matched with the shape of the wooden frame. By the thermal storage characteristic of the phase change material, in a frigid weather, solar thermal power of the outside is stored during the daytime, and then is released to an internal environment with cultural relics so as to fulfill an insulating function; meanwhile, the Al tube array is fixed by the glass, and thermal is absorbed effectively to enhance the insulating function while the day lighting in the cultural relics is ensured and daily visiting of tourists is not affected. The thermal storage door or window has a cultural relic insulating effect without additional energy supply of the outside, is flexible to mount, and can be combined to the original protection structure for outdoor cultural relics, and furthermore, a plurality of units can be directly spliced into a non-contact type protection barrier to protect the outdoor cultural relics; and moreover, the non-contact type protection barrier is

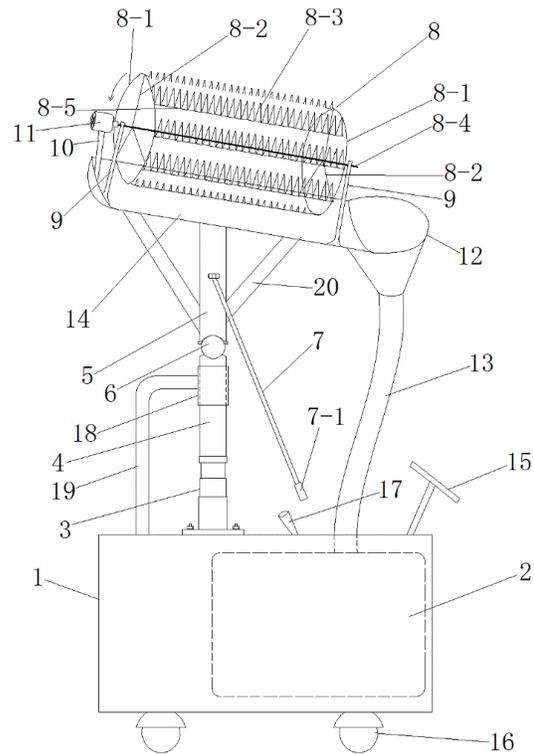
convenient to disassemble; in addition, the convenience of disassembly also meets the “protection reversibility principle” and other characteristics required by the cultural relics field.



21: 2020/07870. 22: 12/17/2020. 43: 6/10/2021
 51: A01D
 71: Nanchang Institute of Technology
 72: Beihong Zhang, Zhinong Jin, Zufe Xiao, Haiyan Zhang, Yanbo Wang, Jie Zhang, Jiao Zhao, Feng Li, Xiongwei Lv
 33: CN 31: 202010069523.7 32: 2020-01-21
54: CAMPHOR TREE BRANCH AND LEAF SEPARATION EQUIPMENT

00: -
 The invention provides a camphor tree branch and leaf separation equipment, wherein vehicle body is provided with telescopic hydraulic cylinder along vertical direction; upper end of hydraulic piston rod of telescopic hydraulic cylinder is fixedly connected with lower end of longitudinal support column, upper end of which is connected with lower end of support rod via universal joint; upper end of support rod is fixedly connected with bottom of camphor tree leaf collection tank, above notch of which is arranged with branch and leaf separation roller which provides rotation power via motor; the lower end of camphor tree leaf collection tank is connected with camphor tree leaf collecting horn mouth which is connected

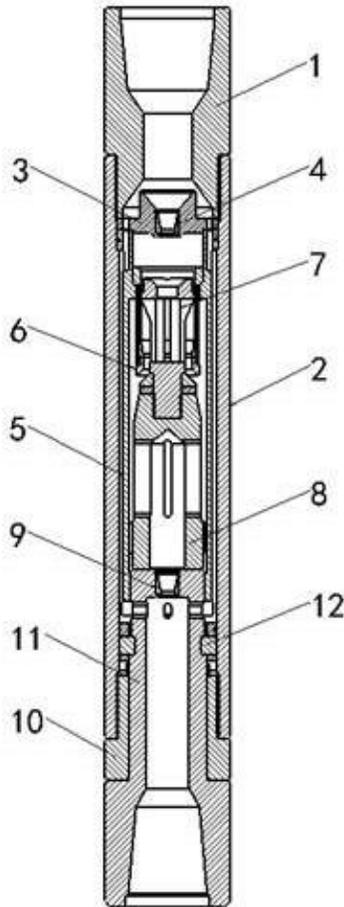
with upper end of camphor tree leaf conveying channel and lower end thereof is connected with the camphor tree leaf collection bin; side wall of support rod is also connected with upper end of operating rod in inclined direction of support rod, the lower end of which is provided with handle.



21: 2020/07915. 22: 12/18/2020. 43: 5/5/2021
 51: E21B
 71: Northeast Petroleum University
 72: Huan ZHAO, Wei LI, Zhuolun LI, Wenfeng SUN
54: A SHUNT-TYPE INJECTION-SUCTION HYDRAULIC IMPACTOR

00: -
 The invention relates to a shunt-type injection-suction hydraulic impactor. The upper end of the shell nipple of the shunt-type injection-suction hydraulic impactor is connected with the upper joint, the lower end is connected with the transmission nipple, the cavity between the upper top and the upper joint of the transmission nipple is provided with upper nozzle holder, hammer inner sleeve, valve sleeve and impact hammer, the upper end of the hammer inner sleeve is fixedly connected with the upper nozzle holder, the upper nozzle is fixed in the center hole of the upper nozzle holder by a circlip, there are symmetrical drain holes in the

annular step of the hammer inner sleeve, the holes around the upper nozzle holder correspond to drain holes to constitute a liquid separation runner, the lower end of the valve sleeve is provided with an overflow trough that allows the hammer inner sleeve to communicate up and down, the valve sleeve is located on the upper part of the hammer inner sleeve, a piston is provided inside the valve sleeve, the impact hammer constitutes a piston impact hammer component with piston by a screw thread, the piston and the impact hammer are installed on the same axis; a center hole is provided on the top of the transmission nipple, and a lower nozzle is provided in the center hole by a circlip. The invention can generate stable periodic axial impact vibration, with high impact frequency and high impact force.



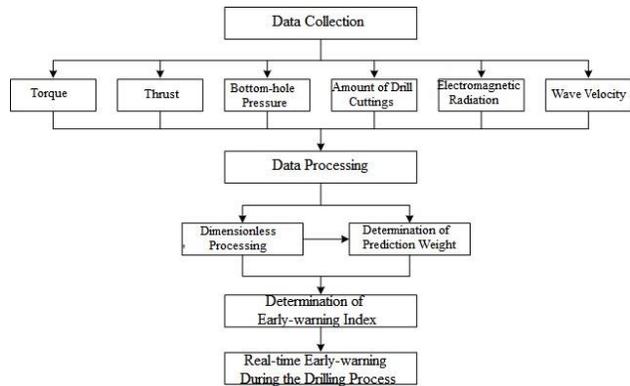
21: 2020/08007. 22: 12/21/2020. 43: 5/5/2021
 51: E21B
 71: China University of Mining and Technology, Xuzhou Wushuo Information Technology Co., Ltd, Xuzhou Hongyi Technology Development Co., Ltd

72: Anye CAO, Yaoqi LIU, Guifeng WANG, Xianxi BAI, Chengchun XUE, Jianqiu XUE

54: A DYNAMIC DETECTION AND ITS ASSESSMENT METHOD OF IMPACT RISK BASED ON RESPONSE PARAMETERS WHILE DRILLING

00: -

The invention discloses a dynamic detection and its assessment method of impact risk based on response parameters while drilling, which comprises the following steps: S1. Collect the response parameter data while drilling; S2. Process the response parameter data while drilling to calculate the risk prediction weight; S3. Calculate the impact risk early-warning index according to the risk prediction weight; S4. Obtain the risk level of the drilling area and give real-time early-warning according to the impact risk early-warning index value; S5. Obtain the position of the next borehole according to the risk level of the drilling area in S4; S6. Repeat Steps S1-S4 to detect the next borehole. The invention collects information while drilling such as torque, thrust, bottom-hole pressure, amount of drill cuttings, electromagnetic radiation and wave velocity, etc. during the drilling process of the drilling rig in real time, and then performs post-processing in real time to judge the impact risk of the drilling area. The operators judge the impact risk of the drilling area according to the risk early-warning indicator, so as to reduce the risk brought by the on-site construction in the high stress area.



21: 2021/00067. 22: 12/11/2020. 43: 5/19/2021
 51: C08F
 71: KZJ NEW MATERIALS GROUP CO., LTD
 72: LAI, Huazhen, FANG, Yunhui, CHEN, Hao, LIN, Yanmei, KE, Yuliang, LIN, Tianxing, MA, Xiuxing
 33: CN 31: 202011348320.8 32: 2020-11-26

54: POLYCARBOXYLATE SUPERPLASTICIZER AND METHOD FOR MAKING SAME

00: -

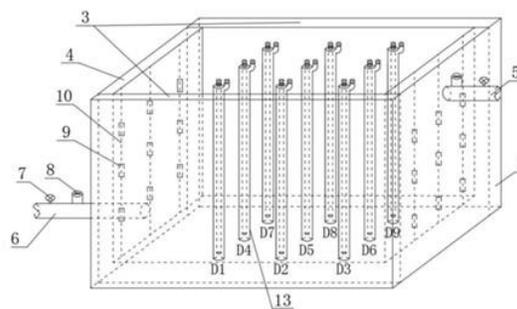
Disclosed herein is a polycarboxylate superplasticizer, including compound B, an unsaturated acid, an unsaturated amide monomer and an unsaturated polyether macromonomer in a weight ratio of (10-40):(10-20):(2-8):200, where the compound B is derived from esterification of a preservative A and an unsaturated acid anhydride. The polycarboxylate superplasticizer has greatly improved antimicrobial property, extended shelf life and enhanced water-reducing performance. Moreover, there is no need to introduce a preservative in the subsequent compounding process.

21: 2021/00638. 22: 1/28/2021. 43: 5/5/2021
 51: G01N; G01W
 71: EAST CHINA UNIVERSITY OF TECHNOLOGY
 72: ZHANG, CHAOCHAO, LI, DONGWEI, YUAN, CHANG, CHEN, XIN, WANG, SHENGFU, LEI, LELE, ZHANG, BO, CHEN, SHIJUN, AN, LINGSHI, LU, QINGRUI
 33: CN 31: 202010210504.1 32: 2020-03-24

54: COUPLED HEAT-MOISTURE-STRESS MODEL TEST CHAMBER

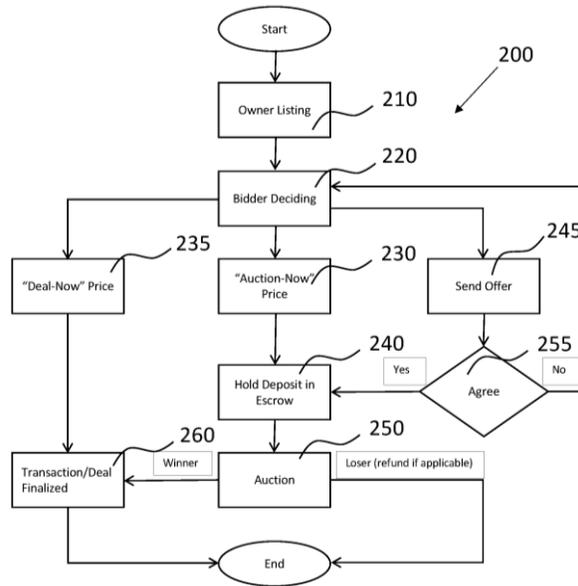
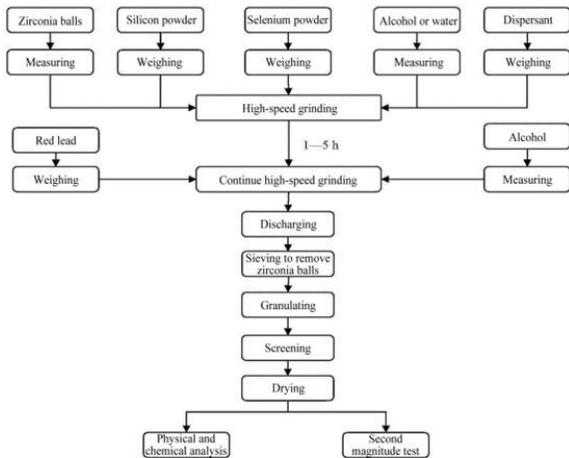
00: -

The present invention relates to the field of coupled heat-moisture-stress tests, and particularly relates to a coupled heat-moisture-stress model test chamber, including a test chamber, a test chamber cover arranged in the test chamber, and thermal insulation material layers arranged on opposite vertical side walls of the test chamber. Double-layer freezing pipe groups, through which a fluid inlet and a fluid outlet of refrigerant fluid are adjacent to each other and are exposed on the outer surface of soil, are arranged in the test chamber. Multiple groups of spring steel bars mounted in soil are arranged in the test chamber. Strain gauges for indirectly acquiring strain data of the soil are arranged on the spring steel bars. Multiple groups of soil pressure sensors are arranged on the test chamber. Pneumatic C female quick connectors and pneumatic C male quick connectors are adopted.



21: 2021/00745. 22: 2/3/2021. 43: 5/11/2021
 51: C06C; F42C
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: XIE, XINGHUA, WANG, XUERUI, CHEN, SHIXIONG, XIE, JUN, ZHOU, HUI SHENG
54: PREPARATION PROCESS OF NANOMETER DELAY COMPOSITION USED FOR DETONATOR
 00: -

The present disclosure relates to a preparation process of a nanometer delay composition. The preparation process includes weighing certain amounts of silicon powder, selenium powder and dispersant according to the proportion of formula as well as zirconia balls and adding them into a round stainless steel tank of a high-speed grinding machine, then adding an appropriate amount of alcohol and stirring at a certain rate for a period of time, suspending the grinding machine, opening the sealing gland and adding a certain amount of red lead and an appropriate amount of alcohol or water into the round stainless steel tank, sealing the opening of the tank, restarting the grinding machine, stirring at a certain rate for a period of time and then shutting down the grinding machine, discharging, sieving and then granulating, and finally oven-drying to get nanometer delay composition particles.



21: 2021/01631. 22: 10/03/2021. 43: 4/29/2021
51: G06Q

71: AL HUMIDAN, Naif

72: AL HUMIDAN, Naif

33: US 31: 62/765,666 32: 2018-09-06

33: US 31: 62/766,744 32: 2018-11-01

54: BIDDING METHOD AND SYSTEM

00: -

A bidding process for selling or renting an item or service to a highest bidder is described. The process includes receiving from an owner a listing for an item or service and displaying the listing to potential bidders. The process also includes setting a price by the owner to the item for which a potential bidder can win the item pending an auction and receiving an acceptance indication from a bidder to the set price. Further, the process includes conducting an auction using the accepted set price as an opening bid among the potential bidders, declaring a highest bidder as winner of the auction, and instructing the owner and the winning bidder to finalize transaction and complete the deal.

21: 2021/01771. 22: 3/16/2021. 43: 5/6/2021
51: E21F

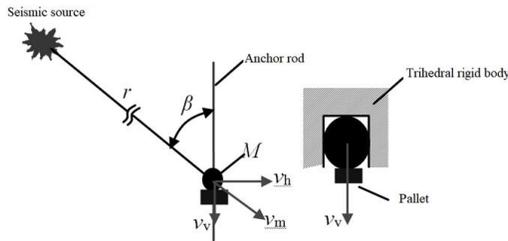
71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, WEISHAN JINYUAN COAL MINE
72: ZHANG, MING, HU, XUELONG, HUANG, HONGTAO, CHEN, GUANGYAO, GAO, SHAN, LIU, CHAO

54: JUDGMENT AND CONTROL METHOD OF IMPACT TENSION DAMAGE OF ANCHOR RODS OR ANCHOR CABLES IN DEEP TUNNELS

00: -

A judgment method for the impact tension damage of an anchor rod or an anchor cable in a deep tunnel are disclosed. The method includes the following steps: in step 1, a geometric model is constructed; in step 2, a mechanical model is constructed, and to analyze that vibration velocity and the impact dynamic load force of the hypothetical rock mass correspondingly, then obtained an impact tension damage mechanical criterion of the anchor rod. In addition, this disclosure also provides a judgment and control method of impact tension damage of anchor rods or anchor cables in deep tunnels. This disclosure study the dynamic-static load tension damage mechanism aspect of the anchor rod of the deep tunnel, and finally obtained a method for judging and controlling the impact tension damage of an anchor rod or an anchor cable of the deep tunnel, which can be used in the field of coal mining and to realize the good working condition and stability of

the local structure of support-surrounding rock in the deep tunnel.

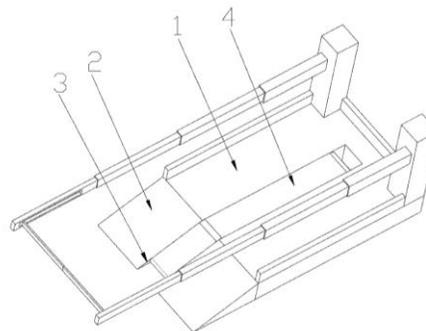


21: 2021/01808. 22: 17/03/2021. 43: 5/19/2021
 51: G09B
 71: ZHIJIANG COLLEGE OF ZHEJIANG UNIVERSITY OF TECHNOLOGY
 72: GUO, Weiqing, WU, Xiaogang, WU, Yue, QIU, Wei, ZHANG, Ju, LU, Yuzheng
 33: IB 31: PCT/CN2020/142570 32: 2020-12-31
54: INTELLIGENT FIRE PRE-WARNING SYSTEM AND METHOD BASED ON VISUAL PERCEPTION THREE-DIMENSIONAL RECONSTRUCTION TECHNOLOGY

00: -
 Disclosed are an intelligent fire pre-warning system and an intelligent fire pre-warning method based on a visual perception three-dimensional reconstruction technology, and relate to the technical field of image processing. The system includes: an imaging module configured to acquire an image of a region to be monitored and send the image to a signal acquisition module; the signal acquisition module configured to receive the image and send the image to an intelligent control module; the intelligent control module configured to receive the image, use a preset algorithm to analyze the image to determine fire parameters, and send out, based on the fire parameters, pre-warning; and a power supply module configured to supply power to the imaging module, the signal acquisition module and the intelligent control module.

21: 2021/01809. 22: 17/03/2021. 43: 5/19/2021
 51: B67C
 71: ZHIJIANG COLLEGE OF ZHEJIANG UNIVERSITY OF TECHNOLOGY
 72: YANG, Youdong
 33: IB 31: PCT/CN2020/141988 32: 2020-12-31
54: WINE JAR MOVING DEVICE
 00: -

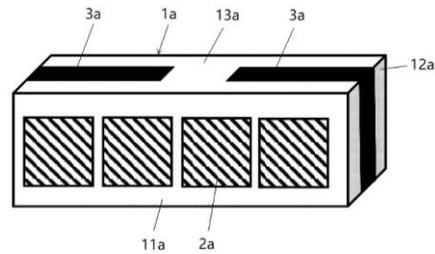
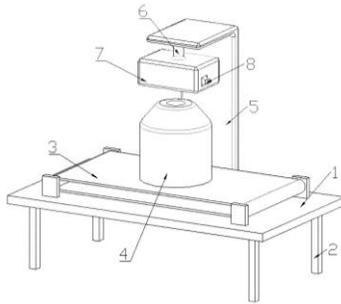
The utility model discloses a wine jar moving device and relates to the technical field of moving devices. The utility model includes a base plate; a slope plate is mounted on one side of the base plate; a first notch is formed on upper ends of the base plate and the slope plate; a conveyor belt is mounted in the first notch; a first rotating shaft and a second rotating shaft are in rotational engagement on an inner side of the conveyor belt; a motor rotating shaft is mounted on an inner side of the conveyor belt; and two first convex strips are arranged on an upper end of the base plate. In this utility model, a conveyor belt is mounted in the first notch so that it saves time and labor during assembly and disassembly of the wine jar.



21: 2021/01810. 22: 17/03/2021. 43: 5/19/2021
 51: B67C
 71: ZHIJIANG COLLEGE OF ZHEJIANG UNIVERSITY OF TECHNOLOGY
 72: YANG, Youdong
 33: IB 31: PCT/CN2020/141989 32: 2020-12-31
54: AUTOMATIC SEALING DEVICE OF WINE JAR
 00: -

The utility model discloses an automatic sealing device of a wine jar, and relates to the technical field of sealing devices. The utility model includes a base plate; a conveyor and an electric push rod positioned above the conveyor are arranged above the base plate; a fixed plate is mounted on an output end of the electric push rod; a channel is formed inside the fixed plate; and a motor is mounted on one side of the fixed plate. In this utility model, a first limiting member and a second limiting member are provided; an output end of the motor drives the first limiting member and the second limiting member to be far away from each other when the motor is started; moreover, the device may be clamped according to

the specification of a lid, so that the wine jar can be packaged conveniently.



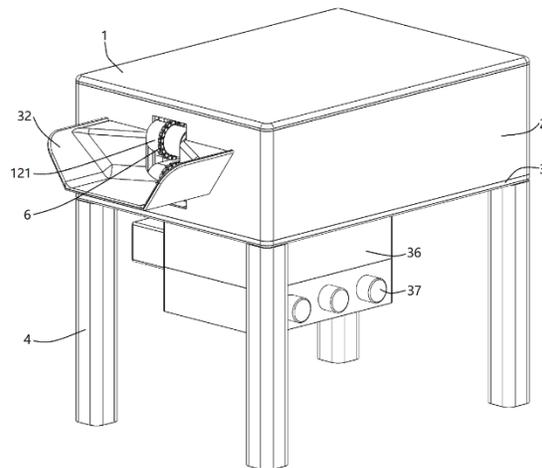
21: 2021/02055. 22: 3/26/2021. 43: 4/29/2021
 51: H01Q
 71: ETHETA COMMUNICATION TECHNOLOGY (SHENZHEN) CO., LTD, EAST CHINA RESEARCH INSTITUTE OF MICROELECTRONICS
 72: HUANG, Huan-Chu, LIU, Junyong, LIN, Hong, SUN, Hao, QI, Zhixing, ZENG, Minhui, ZHOU, Yanchao, LI, Jingwei, MA, Tao
 33: CN 31: 202010252249.7 32: 2020-04-01
54: INTEGRATION MODULE OF MILLIMETER-WAVE AND NON-MILLIMETER-WAVE ANTENNAS

00: -
 The present invention discloses an integration module of millimeter-wave and non-millimeter-wave antennas, comprising a module carrier, one or more millimeter-wave antennas, one or more non-millimeter-wave antennas, and a radio frequency integrated circuit; the radio frequency integrated circuit is electrically connected to the millimeter-wave antenna(s); the radio frequency integrated circuit and the non-millimeter-wave antenna(s) are set in the same plane as or a space non-parallel with that of the module carrier. With the present invention, the height space on the side of a mobile communication device can be fully used, so that it is not necessary to occupy a large amount of horizontal area, thereby reducing the requirements of the antenna module for the overall size of the mobile communication device, and thus reducing cost and enhancing product competitiveness.

21: 2021/02641. 22: 4/20/2021. 43: 5/27/2021
 51: A01D
 71: NORTH CHINA UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER
 72: FAN, SUXIANG, SHANG, YAN, YUAN, KEJIA, QIU, HAOYU

54: PEANUT PICKING DEVICE

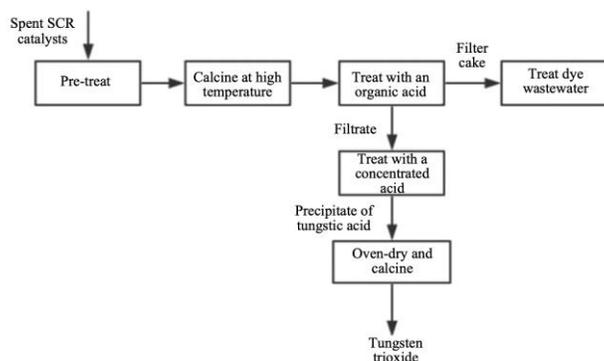
00: -
 Disclosed is a peanut picker comprising a rack, a conveyor and a picker. The conveyor comprises chain wheels which are sleeved on two pairs of conveying chains forming a gap for conveying peanuts, connected to two first drivers having opposite running directions; the picker comprising a supporting plate, rotationally supporting drums which has a plurality of and shifting teeth installed on the peripheral sides of the drums. By arranging the conveyor and the picker, in the process that the peanut vines are clamped and moved from one end of the conveying chains to the other ends of the conveying chains, peanuts at the end parts of the peanut vines may be beaten by the shifting teeth on the drums, ensuring that when the peanut vines are clamped and conveyed, the peanuts at the ends of the vines may all be beaten down by the shifting teeth.



21: 2021/02642. 22: 4/21/2021. 43: 5/20/2021
 51: B01J; C01G; C02F
 71: Taiyuan University of Technology
 72: WANG, Jiancheng, CAO, Yibo, HU, Jiangliang,
 YAO, Junxuan, BAO, Weiren
 33: CN 31: 202010569419.4 32: 2020-06-20

54: METHOD FOR RECYCLING SPENT SELECTIVE CATALYTIC REDUCTION (SCR) CATALYSTS

00: -
 Provided is a method for recycling spent selective catalytic reduction (SCR) catalysts, including the following steps: pre-treating the spent SCR catalysts to obtain a catalyst powder; subjecting the catalyst powder to high-temperature calcination to obtain an intermediate product; treating the intermediate product with an organic acid solution, filtering a resulting mixture to obtain a filtrate and a filter cake; treating the filtrate with a concentrated acid to obtain a precipitate of tungstic acid; and oven-drying and calcining the precipitate of tungstic acid to obtain tungsten trioxide. The method of the present disclosure is simple and requires a low acid and alkali consumption. In the present disclosure, high-purity WO₃ can be obtained, and a filter cake obtained after tungsten is separated can be used to treat wastewater so that organic pollutants in the wastewater can be degraded, which further improves the utilization value of the spent SCR catalysts.

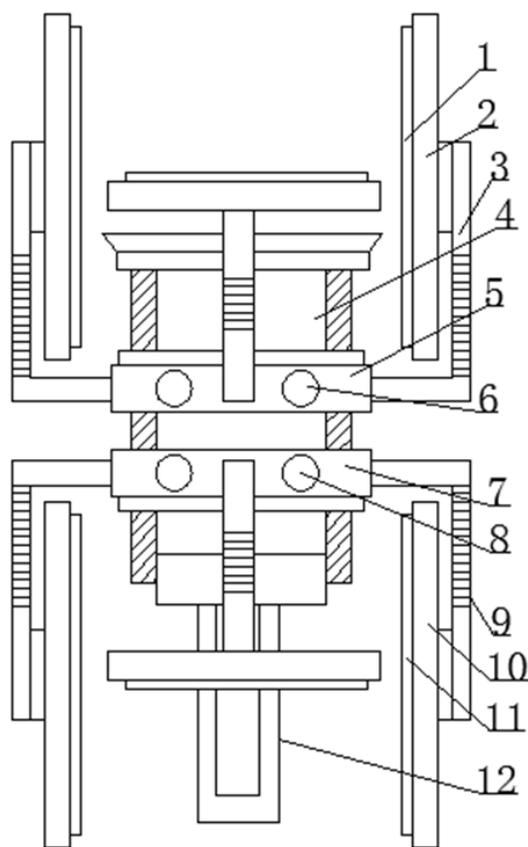


on the lower side of the said lampshade, and a first lantern ring is sheathed on the upper side of the surface of the said lampshade, as well as the surface of the first lantern ring is fitted with a first universal rod evenly through threaded connection, and the other end of the first universal rod is fixedly equipped with a first mounting plate, and the surface of the first mounting plate is fixedly equipped with a first plane mirror; the lower side of the surface of the said lampshade is sheathed with a second lantern ring, and the surface of the second lantern ring is fitted with a second universal rod evenly through threaded connection, as well as the other end of the second universal rod is fixedly equipped with a second mounting plate, and the surface of the second mounting plate is fixedly equipped with a second plane mirror. The present invention reflects the light source illuminated by the illuminating lamp through adjusting the angles of the first plane mirror and the second plane mirror, and then controlling the light source as required to achieve the required angle and range of illumination. In addition, it is designed reasonably, and the operation is convenient, as well as satisfies the society demand, and has a strong merchantability.

21: 2021/02688. 22: 4/22/2021. 43: 5/11/2021
 51: F21V
 71: Linyi University, Ottawa University
 72: Ruquan LIANG, Sophia Shuo LIANG, Yang LIANG

54: A HOUSEHOLD LIGHTING DEVICE

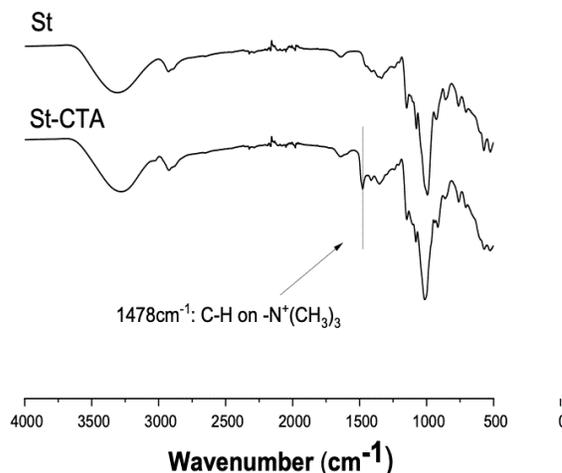
00: -
 A household lighting device consists of a lampshade, wherein, an illuminating lamp is installed



21: 2021/02733. 22: 23/04/2021. 43: 5/27/2021
 51: C02F
 71: NANJING UNIVERSITY
 72: YANG, Hu, REN, Jie, LI, Aimin
 33: CN 31: 201910026092.3 32: 2019-01-10
54: COMPOSITE FLOCCULANT FOR REMOVING PHOSPHORUS AND TURBIDITY OF WASTE WATER, PREPARATION METHOD THEREFOR AND USE THEREOF

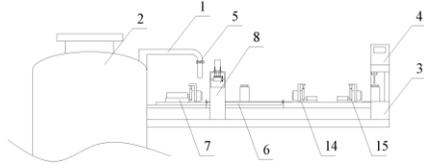
00: -
 Disclosed are a composite flocculant for removing phosphorus and turbidity of waste water, and a preparation method therefor. The composite flocculant is a composite flocculant which is made by mixing and curing a natural polymer flocculant and an inorganic salt coagulant. The composite flocculant is added directly to treat phosphorus-containing waste water. Under the condition that a water quality standard requirement of a total phosphorus content (TP <0.3 mg / L) in IV-type surface water is achieved, using the composite flocculant can reduce the SS value of an effluent to

10 mg / L or less, whereas using the inorganic salt coagulant alone cannot achieve such a goal, thus the composite flocculant ensures that the effluent meets the national sewage discharge standards.



21: 2021/02747. 22: 3/18/2021. 43: 5/27/2021
 51: G01N
 71: NINGBO POLYTECHNIC
 72: CHEN, Zizhen, XIA, Bingbing, LI, Chaoyan, WANG, Meng, DING, Wenhui, MENG, Kai, HUANG, Qiyue, CHEN, Wenming
 33: WO 31: PCT/CN2021/081479 32: 2021-03-18
54: FULLY-AUTOMATIC INTELLIGENT PH VALUE DETECTION DEVICE

00: -
 A fully-automatic intelligent PH value detection device including a reaction kettle and a detector is disclosed. A first mechanical arm can grab a container on a conveyor belt and enables a sampling port to extend into the container to finish sampling. An end, close to the reaction kettle, of the conveyor belt is provided with a film coating sealing device capable of coating an opening of the container with a sealing film to seal a sample in the container. Compared with the prior art, the device automatically finishes a series of operations such as sampling, sample conveying and pH detection in the reaction kettle of the sample, and seals and stores the sample in this process, thereby preventing the sample from reacting with external components in this process, avoiding emission of harmful gas or strong irritant gas in the sample, improving working efficiency and detection accuracy.



21: 2021/02768. 22: 4/23/2021. 43: 5/28/2021
51: G01N

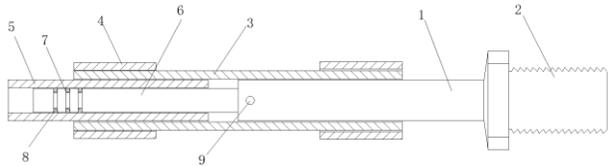
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHAI, XIAORONG, ZHANG, XUELI, WU, JIWEN, BI, YAOSHAN, HU, RU

54: SPLITTING TEST PROBE FOR TESTING TENSILE STRENGTH OF COAL ROCKS, AND ASSEMBLY METHOD

00: -

Disclosed is a splitting test probe for testing the tensile strength of coal rocks, and an assembly method. A splitting test probe is provided with an air expansion tube; a seamless steel tube inside the air expansion tube, a through hole formed in a first end of an outer side of the steel tube, an inner tube of a slide sleeve is integrally formed at the first end of the steel tube, the slide sleeve located inside the air expansion tube is disposed around the inner tube of the slide sleeve, a hydraulic oil pump connector is integrally formed at a second end of the steel tube. Multiple seal ring slots are formed in a first end of an outer side of the inner tube of the slide sleeve, and seal rings are clamped in the slots. Metal hoops are fastened around the ends of the air expansion tube.



21: 2021/02806. 22: 4/28/2021. 43: 5/6/2021
51: E02D

71: XUZHOU UNIVERSITY OF TECHNOLOGY

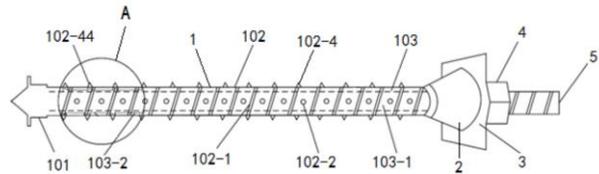
72: YU Yang, CHEN Dingchao, CHEN Cheng, ZHAO Xiangqian, LU Jianfei, ZHU Siyu, PAN Yuxin, ZHANG Haiyan, XIANG Runze, LIANG Huaqiang
33: CN 31: 202120769730.3 32: 2021-04-15

54: HOLLOW ANCHOR ROD WITH ADJUSTABLE GROUTING HOLES

00: -

Disclosed is a hollow anchor rod with adjustable grouting holes, wherein an external screw sleeve of

the hollow anchor rod has a hollow interior, a plurality of grouting through holes and spiked through holes are further provided on an outer wall of the hollow anchor rod, a thread is provided on an inner wall of each grouting through hole, and spike teeth are provided in each spiked through hole; an internal screw is arranged in the external screw sleeve, the internal screw is a cannula provided with a hollow cavity, and a grouting channel is formed within the hollow cavity; a water channel is formed between the internal hollow screw and the external screw sleeve; a cannula wall of the internal hollow screw is provided with a plurality of through holes corresponding to the grouting holes and the spiked through holes respectively; before grouting, the grouting holes that are not required to be grouted are closed by thread caps, and the grouting holes that are required to be grouted are left behind according to an actual condition of all parts of a soil mass. During drilling, grouts reach the grouting holes through a grouting pipeline and meanwhile, the grouts push the spiked teeth to extend outward to play a role of stabilizing the anchor rod. The grouts enter a stratum required to be reinforced through the grouting holes to fill up holes in stratum cracks, so that a self-lining ability is improved and the usage amount of a grouting material is saved.



21: 2021/02821. 22: 28/04/2021. 43: 5/6/2021
51: F25B

71: EVAPCO, INC.

72: DEROSIER, Greg, GOPALAN, Shri

33: US 31: 62/756,328 32: 2018-11-06

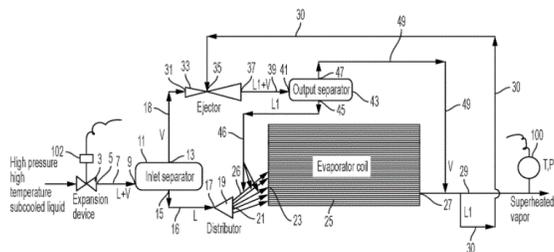
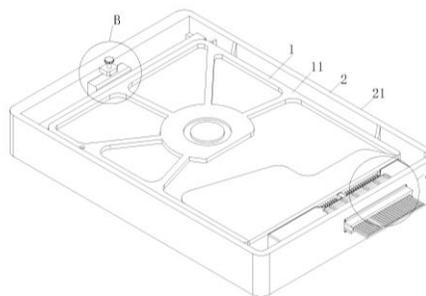
33: US 31: 16/676,364 32: 2019-11-06

54: DIRECT EXPANSION EVAPORATOR WITH VAPOR EJECTOR CAPACITY BOOST

00: -

A system and method for increasing the refrigeration capacity of a direct expansion refrigeration system having a vapor separator and a vapor ejector. After the throttling process at the expansion device, the mixture of liquid and vapor enters the inlet separator. The vapor separator generates vapor to power the

ejector through flashing of warm refrigerant liquid from a higher temperature and pressure to a lower pressure. The cooler refrigerant liquid then goes to the evaporator coil inlet. Furthermore, the system stabilizes the superheat of the outlet vapor and reduces fluctuations in outlet superheat caused by excess unevaporated liquid flowing from the outlets of the tubes due to mal-distribution at the inlet.

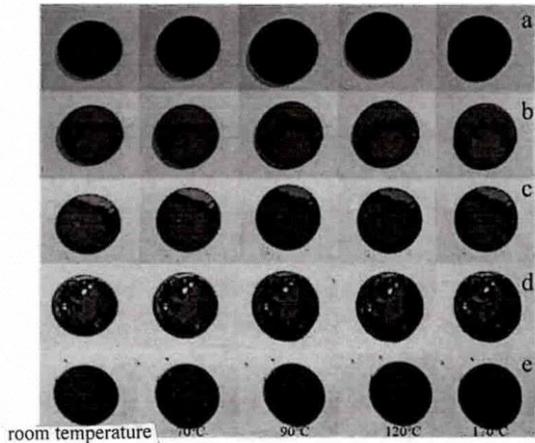


21: 2021/02896. 22: 4/8/2021. 43: 5/12/2021
 51: G11B; H01R
 71: ANQING NORMAL UNIVERSITY
 72: WANG, Yuanzhi, SHI, Zizhen, ZHENG, Xin,
 HUANG, Zhong, LIU, Juan, YIN, Zhouping
 33: CN 31: 202010439831.4 32: 2020-05-22
**54: HARD DISK DEVICE BASED ON
 BLOCKCHAIN**

00: -
 The present invention belongs to the technical field of hard disk device, and specifically relates to a Hard Disk Device Based on Blockchain. The hard disk device comprises a storage unit and a protection unit; wherein a hard disk body stores information in the blockchain; the protection unit comprises a protective case, an airbag and an interface extension board; the airbag is laid flat on the inner bottom of the protective case; the interface extension board passes through a side wall of the protective case and is bolted to the protective case; a dust board in a first through hole of the interface extension board is located at the port on the interface extension board close to the hard disk body when the hard disk body is not placed in the protective case; the dust board is connected to the inside of the first through hole by a first spring.

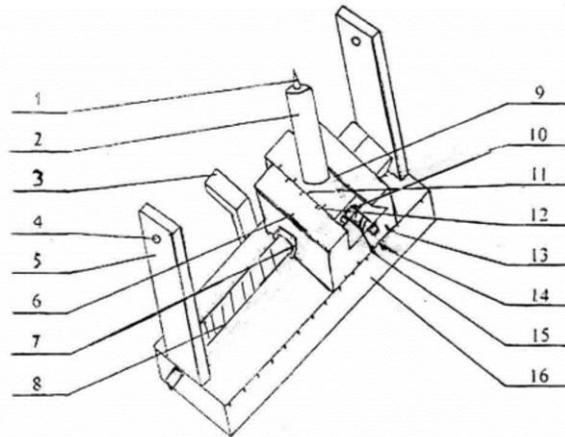
21: 2021/02917. 22: 30/04/2021. 43: 5/27/2021
 51: A24D; A24F; C09K
 71: NANTONG UNIVERSITY
 72: MIAO, Jianwen, LI, Minmin, SONG, Guohua,
 XIA, Jie, WANG, Yan
 33: CN 31: 202010473446.1 32: 2020-05-29
**54: MULTI-WALLED CARBON NANOTUBE
 COMPOSITE FORM-STABLE PHASE CHANGE
 MATERIAL, AND PREPARATION METHOD AND
 USE THEREFOR**

00: -
 A multi-walled carbon nanotube composite form-stable phase change material and a preparation method and a use therefor. The multi-walled carbon nanotube composite form-stable phase change material is prepared from multi-walled carbon nanotubes at a weight percent of 16.7-83.3 wt%, a phase change material of 16.7-83.3 wt%, and a biodegradable material of 0-16.7 wt% by means of physical blending. The composite form-stable phase change material features an excellent high-temperature resistance, exhibits solid-solid phase change features, and is able to maintain a stable form under high temperatures. The phase transition of the phase change material from a crystal state to an amorphous state causes the material to have a heat absorption and energy storage function. The excellent thermal conductivity of the multi-walled carbon nanotubes themselves is able to allow the material to achieve the effect of rapid heat absorption and temperature reduction.



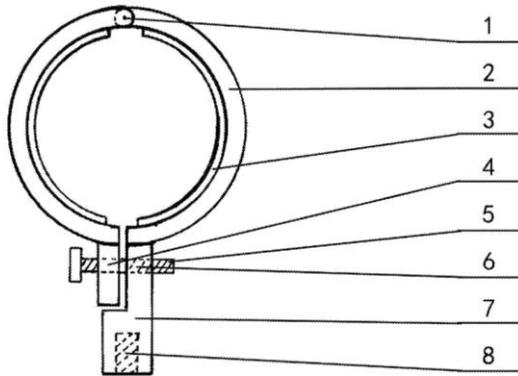
21: 2021/02918. 22: 30/04/2021. 43: 5/27/2021
 51: A61D
 71: NANTONG UNIVERSITY
 72: WANG, Xiaoqin, PENG, Yuping, GU, Hongmei, QIU, Yihua, CAO, Beibei
54: CORRECTOR FOR DEVIATION-FREE STEREOTACTIC DEVICE
 00: -
 A corrector for a deviation-free stereotactic device, wherein side plates (5) are fixedly mounted at left and right ends of a base (16), upper portions of the side plates (5) are provided with rod insertion holes, a numerical control-type electric lateral screw rod mechanism (8) is fixedly mounted on the base (16) between the side plates (5) at the two ends, a screw rod nut is fixedly connected to a lateral movement slide block (6), a numerical control-type electric longitudinal screw rod mechanism (15) is arranged on the lateral movement slide block (6), a screw rod nut (7) is fixedly connected to a longitudinal movement slide block (9), a three-dimensional positioning post (2) is fixedly mounted on the longitudinal slide block (9), a top end of the three-dimensional positioning post (2) is provided with a three-dimensional positioning tip (1), a rotatable three-dimensional positioning post sleeve is sleeved on the three-dimensional positioning post (2), a top end of the three-dimensional positioning post sleeve is provided with a height scale (17), and an outside end of the base (16) is provided with a tooth plate contact piece (3) connected to the stereotactic device. The corrector electrically controls the movement of the lateral movement slide block (6) and the longitudinal slide block (9), and sets parameters by means of numerical control to ensure

the accuracy of movement distances. The present invention is very easy to use.



21: 2021/02919. 22: 30/04/2021. 43: 5/27/2021
 51: A61B
 71: JIANGSU PROVINCE HOSPITAL (THE FIRST HOSPITAL WITH NANJING MEDICAL)
 72: QIU, Aowang, LIU, Qinghuai, XIE, Ping, ZHANG, Weiwei
 33: CN 31: 202010258540.5 32: 2020-04-03
54: AUXILIARY APPARATUS WHICH CAN BE USED IN EXAMINATION OF FUNDUS BY SLIT LAMP MICROSCOPE IN COMBINATION WITH FRONT-MOUNTED LENS
 00: -
 An auxiliary apparatus which can be used in the examination of a fundus by a slit lamp microscope in combination with a front-mounted lens, wherein an internal right angle fixing clip is provided with two left and right internal right angle fixing clip bodies (12), one of the two left and right internal right angle fixing clip bodies (12) is provided with an internally threaded hole (17) matched with a connecting piece threaded connector (11), a front-mounted lens holder comprises two left and right gripping half rings (2), the two left and right gripping half rings (2) are connected by a connecting hinge (1), the insides of the two left and right gripping half rings (2) are lined with silicone pads (16) which increase static friction between the gripping half rings (2) and the front-mounted lens so that the gripping is more stable, the two left and right gripping half rings (2) are provided with gripping half ring fastening bolt fastening holes (6), the centres of the fastening holes (6) are provided with internal threads matching a fastening bolt (5), and gripping of the front-mounted lens by the two gripping half rings (2) is achieved by turning

the fastening bolt (5) in the fastening holes (6). The auxiliary apparatus has a reasonable structure, is easy to use, and achieves a good effect.



21: 2021/02973. 22: 5/3/2021. 43: 5/28/2021
51: B60R; G06Q; G07C

71: NGANWA, Philip Joseph Kanyamuny

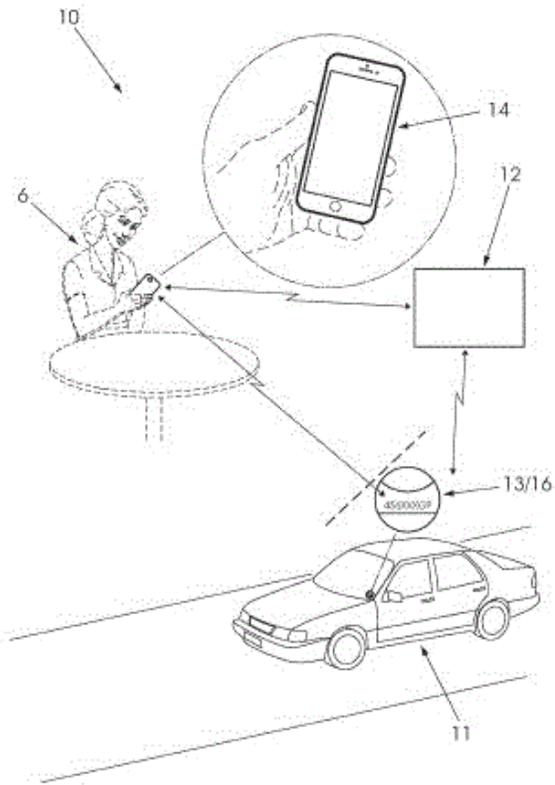
72: NGANWA, Philip Joseph Kanyamuny

33: ZA 31: 2019/02774 32: 2019-05-03

54: DIGITAL VEHICLE DISPLAY SYSTEM, APPARATUS AND METHOD

00: -

A method of monitoring, updating and displaying information about a vehicle (11) employing a monitoring device (14) and a monitored device (13), the latter (13) being connectable or mountable to the vehicle (11) and in live communication with the monitoring device (14) as well as apparatus used in said method; and an associated integrated digital vehicle display system for use with said vehicle (11), the display system being computer implemented and adapted to assist a monitoring device user (6), being either the owner of said vehicle (11), and/or a person authorised to discern, access, manipulate, alter, save and/or transfer aggregate and/or disaggregate data about said vehicle (11).



21: 2021/03004. 22: 4/30/2021. 43: 5/28/2021

51: B01D; G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, CHINA UNIVERSITY OF MINING AND TECHNOLOGY

72: LIU, HUIHU, SANG, SHUXUN, XU, HONGJIE, WU, HAIYAN, LIU, SHIQI, ZHOU, XIAOZHI, WANG, HAIWEN, HUANG, HUAZHOU, LIU, CHANGJIANG, LI, ZICHENG, JIA, JINLONG

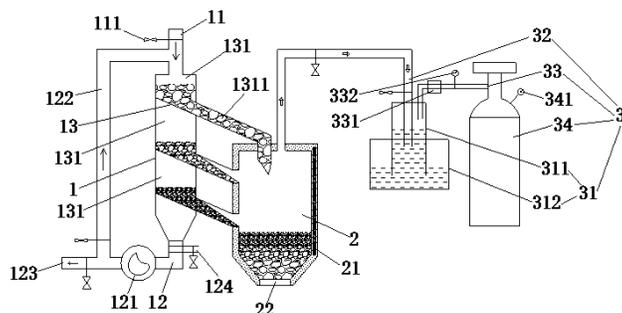
33: CN 31: 202010705173.9 32: 2020-07-21

54: EFFICIENT SEPARATION, RECYCLING TREATMENT AND CYCLIC UTILIZATION TEST DEVICE FOR COAL-WATER-GAS MIXTURE

00: -

The present invention discloses an efficient separation, recycling treatment and cyclic utilization test device for a coal-water-gas mixture, including a coal-water separation bin, a coal bin and a coal-bed methane collection device. The upper and lower ends of the coal-water separation bin are respectively provided with a feeding pipe and a water outlet pipe; at least one filter screen is arranged inside the coal-water separation bin; and the aperture of the filter screen is gradually decreased from top to bottom. The test device can perform efficient separation on coal, gas and water

in a test room to realize separation of coal, water and coal-bed methane (gas) in a test process, treatment and cyclic utilization of water, and accelerated desorption and recycling of residual gas in coal and shorten the test time. The test device is high in controllability, easy to control, convenient to mount, easy to operate, safe and reliable.

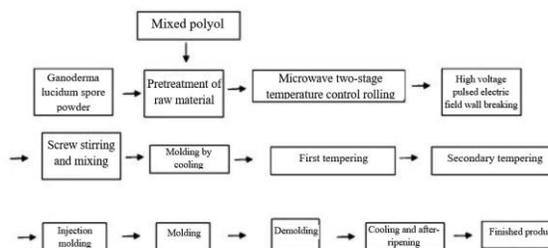


21: 2021/03005. 22: 4/30/2021. 43: 6/9/2021
 51: A23G; A61K
 71: JILIN AGRICULTURAL UNIVERSITY, JILIN PROVINCE ZHONGZHENGHE TECHNOLOGY CO., LTD.
 72: LIU, JUNMEI, CHANG, YA'NAN, SHENG, ZHILI, LI, ZHUOWEI, ZHAO, YUQIAN, CHEN, DANDAN, SHENG, ANQI

54: GANODERMA LUCIDUM SPORE POWDER FUNCTIONAL CHOCOLATE CHIP AND PREPARATION METHOD THEREOF

00: -
 The present invention belongs to the technical field of food processing, and discloses a ganoderma lucidum spore powder functional chocolate chip and a preparation method thereof which comprises pretreatment, microwave two-stage temperature control rolling, high voltage pulsed electric field wall breaking, screw stirring and mixing, molding by cooling, first tempering, secondary tempering, injection molding, molding, demolding, and cooling and after-ripening. With the above technical solution, the product of the present invention has optimum sensory quality and delicate and crisp taste and melts in the mouth. By adding complex sugar alcohol, citric acid and salt into raw materials, the conversion rate of sugar is changed, the melting point of chocolate chips is increased, and the functional chocolate chip is given strong heat resistance. The product of the present invention has light fragrance of ganoderma lucidum spore and is a

kind of ideal health foods, with good social benefits and economic benefits.



21: 2021/03076. 22: 06/05/2021. 43: 5/19/2021
 51: C25F
 71: DRYLYTE, S.L.
 72: SARSANEDAS MILLET, Pau, SARSANEDAS GIMPERA, Marc, SOTO HERNÁNDEZ, Marc
 33: ES 31: P201831092 32: 2018-11-12
 33: ES 31: P201930148 32: 2019-02-21

54: USE OF SULFONIC ACIDS IN DRY ELECTROLYTES TO POLISH METAL SURFACES THROUGH ION TRANSPORT

00: -
 Use of dry electrolytes to polish metal surfaces through ion transport, characterized in that the conductive liquid of the dry electrolyte comprises at least a sulfonic acid. Preferably, the porous particles of the dry electrolyte comprise sulfonate polymer and more preferably polystyrene divinylbenzene. Preferably, the conductive liquid of the dry electrolyte comprises methanesulfonic acid. Preferably, the concentration of the sulfonic acid in relation to the solvent is ranging from 1 to 70%. Optionally, the conductive liquid of the dry electrolyte comprises a complexing agent and/or a chelating agent. Dry electrolyte characterized in that it comprises sulfonic acid as conductive liquid according to any of the preceding claims.

21: 2021/03079. 22: 5/7/2021. 43: 5/19/2021
 51: A01N
 71: Sugarcane Research Institute, Yunnan Academy of Agricultural Sciences, Biotechnology and Germplasm Resources Institute, Yunnan Academy of Agricultural Sciences
 72: Huang Yingkun, Li Wenfeng, Li Jie, Lu Wenjie, Wang Xiaoyan, Shan Hongli, Li Yinhu, Zhang Rongyue

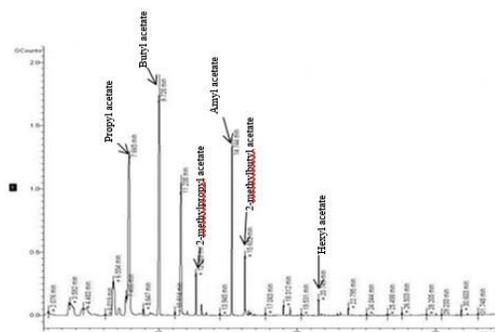
54: COMPOUND PESTICIDE FORMULATION AND PRODUCTION PROCESS FOR THE PREVENTION AND CONTROL OF SUGARCANE DISEASES AND PESTS

00: -
 The present invention provides a compound pesticide formulation and production process for the prevention and control of sugarcane diseases and pests, which is in the field of pesticide technology. The active ingredients of the pesticide are thiamethoxam 5-10% and difenoconazole azoxystrobin 50-70%, and the rest are additives. The pesticide only needs to be applied once during the sugarcane grand period of growth, which is one application less than the existing technology, and it can effectively control sugarcane woolly aphids, thrips, sugarcane pokkah boeng, rust and other diseases and pests during the grand period of growth when multiple diseases and pests occurs. The control effect of this pesticide on sugarcane woolly aphids reaches 98-100%, thrips of sugarcane reaches 91-94%, sugarcane pokkah boeng reaches 81-87%, and rust of sugarcane reaches 80-82%. It effectively solves the industrial and technical problem of multiple pests and diseases occurring in the sugarcane grand period of growth and the lack of compound high-efficiency, low-toxicity insecticidal and disease control pesticides, which is multi-purpose, easy to use and saves labor and control costs.

21: 2021/03081. 22: 5/7/2021. 43: 5/28/2021
 51: A01G; C05G
 71: SHANDONG INSTITUTE OF POMOLOGY
 72: WANG, HAIBO, WANG, SEN, HE, PING, CHANG, YUANSHENG, HE, XIAOWEN, WANG, CHUANZENG, SUN, JIAZHENG, LI, LINGUANG
54: METHOD FOR INCREASING ACETATE VOLATILE COMPONENTS IN LULI APPLE FRUITS

00: -
 Disclosed is a method for increasing acetate volatile components in Luli apple fruits, and belongs to the field of agricultural cultivation. The method specifically includes the following steps: applying a combined base fertilizer of carbonized rice husk, organic nutrients and inorganic nutrients once in the first year; applying inorganic nutrient rhizosphere topdressing combined with applied composted soybean extract twice in the second year;

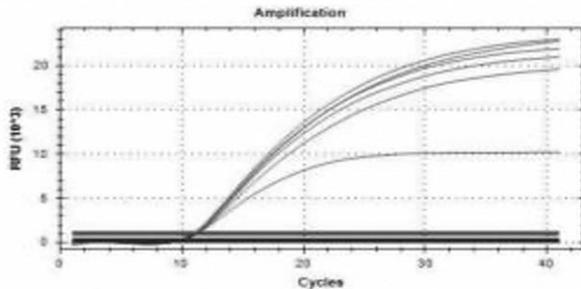
conducting foliage topdressing on the fruits with sugar alcohol chelated calcium and linolenic acid preparations twice respectively. In the present invention, in combination with multiple fertilization technologies and fertilizer types of different functions, purposes of promoting synthesis of acetate volatile components of the fruits and improving olfactory flavour quality of the fruits are achieved by improving an underground root nutrient utilization environment and directly applying regulator and precursors to fruit surfaces.



21: 2021/03122. 22: 5/10/2021. 43: 5/19/2021
 51: C12Q
 71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences
 72: Yu Jiang, Wu Jiaqiang, Meng Kai, Zhang Yuyu, Fang Lichun, Liu Na, Jiao Jian, Sun Wenbo, Chen Zhi, Ren Sufang
54: PRIMER SET AND KIT FOR SIMULTANEOUSLY IDENTIFYING WILD STRAINS AND GENE-DELETED VACCINE STRAINS OF ASFV

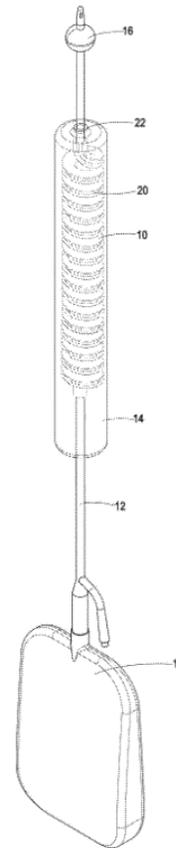
00: -
 The present invention belongs to the technical field of virus detection, and provides a primer set and a kit for simultaneously identifying wild strains and gene-deleted vaccine strains of ASFV based on the multiplex qPCR technology. The primer probe set for simultaneously identifying wild strains and gene-deleted vaccine strains of ASFV based on the multiplex qPCR technology comprises a p72 gene specific primer probe, a CD2v gene specific primer probe and an MGF gene specific primer probe; and the kit comprises the primer probe set. The multiplex qPCR test result obtained by the kit are as follows: the primer specific to a p72 gene, a conserved gene of ASFV, can amplify wild strains and gene-deleted

vaccine strains, the primer specific to a CD2v gene and an MGF gene can only amplify wild strains, and the combined use of the three sets of primers can identify wild strains and gene-deleted vaccine strains of ASFV. The kit of the present invention has a strong practical value for the diagnosis of clinical samples and the breeding industry due to the advantages of accurate testing results, sensitivity, high efficiency, low cost and the like.



21: 2021/03129. 22: 10/05/2021. 43: 5/19/2021
 51: A61F; A61M
 71: LE CLEZIO, Anne Margaret
 72: LE CLEZIO, Louis Jean Christian
 33: ZA 31: 2018/06878 32: 2018-10-16
54: EXTENSIBLE GUIDE FOR A TUBE
 00: -

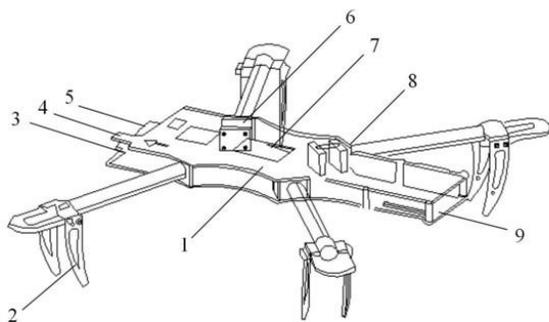
A extensible guide that includes a body (10) and means for securing a tube (12) to the body. The body is in the shape of a helix with a substantially constant radius of curvature along the length of the body. The body is axially resiliently deformable between: (i) a neutral condition, in which the body is not subject to axial compressive or tensile forces; (ii) an extended condition, in which the body is subject to an axial tensile force; and (iii) a retracted condition, in which the body is subject to an axial compressive force. When the body is in the neutral condition, the extended condition or the retracted condition, the radius of curvature of the body remains substantially constant along the length of the body. In use, the extensible guide causes the flexible tube secured thereto to assume the helical shape of the body.



21: 2021/03158. 22: 5/10/2021. 43: 5/27/2021
 51: B64C; G01N; G05D
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: PANG, DONGDONG, PANG, XINCHEN, CHENG, JING, WAN, HAOWEN, PENG, ZHAOYUAN, LUO, XIAOLONG, LI, QINGYAO, ZHANG, BO, LU, YUNFENG
 33: CN 31: 202011339994.1 32: 2020-11-25
54: UNDERGROUND INTELLIGENT ROUTING INSPECTION UNMANNED AERIAL VEHICLE WITH EXPLOSION-PROOF FUNCTION
 00: -

The invention discloses an underground routing intelligent inspection unmanned aerial vehicle with an explosion-proof function. The unmanned aerial vehicle comprises an explosion-proof vehicle body, and four supporting legs are symmetrically arranged below the machine body; a gas detector, an infrared probe and a controller are arranged at the front part of the machine body; an alarm lamp and a panoramic camera are arranged at the upper part of the machine body; a wireless signal receiving wire is arranged at the rear part of the machine body,

penetrates through the interior of the machine body and is connected with the alarm lamp and the controller; the supporting legs are connected with the machine body through direct-acting joints. Two-way communication between a sensor system and a ground center is achieved, and the explosion-proof purpose is achieved.



21: 2021/03169. 22: 5/11/2021. 43: 5/19/2021
 51: C05G
 71: Sugarcane Research Institute, Yunnan Academy of Agricultural Sciences, Biotechnology and Germplasm Resources Institute, Yunnan Academy of Agricultural Sciences
 72: Huang Yingkun, Li Wenfeng, Wang Xiaoyan, Lu Wenjie, Li Jie, Shan Hongli, Zhang Rongyue, Li Yinhu

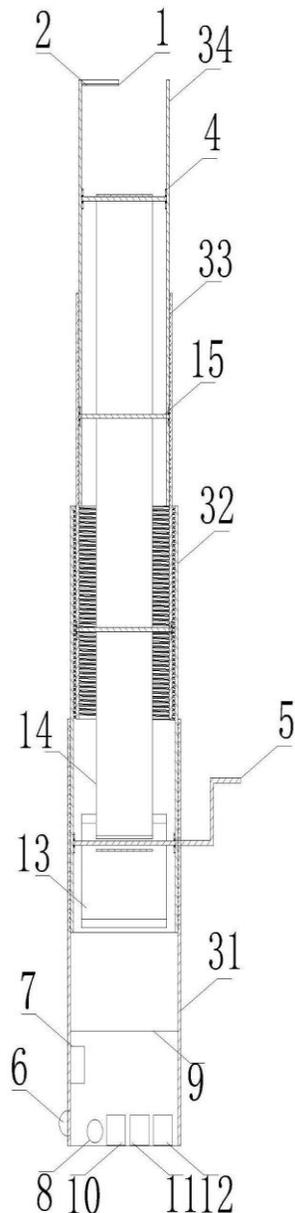
54: A PESTICIDES COMPOUND FERTILIZER FORMULATION AND ITS PRODUCTION METHOD FOR SUGARCANE DISEASE AND PESTS

00: -
 The present invention provides compound fertilizer formulation and production method for sugarcane disease prevention and pesticides, which belongs to the field of pesticide technology. It is characterized by the preparation of the following raw materials with their perspective portions: imidacloprid 5-10 parts, pyraclostrobin 15-30 parts, chlorothalonil 30-50 parts, potassium dihydrogen phosphate 5-10 parts; wetting agent 1-3 parts, dispersant 2-5 parts, anti-caking agent 1-1.5 parts, defoamer 0.01-0.05 parts, suspension aid 0.5-1 parts, filler 10-20 parts. The components of raw materials by stirring and mixing, airflow crushing, fully mixed with the treatment to obtain the fertilizer products. The formula fertilizer 500 ~ 600 times diluted of liquid sprayed evenly on the foliage of sugarcane; prevention and treatment of both, can effectively control sugarcane woolly aphids, sugarcane pokkah boeng, sugarcane brown

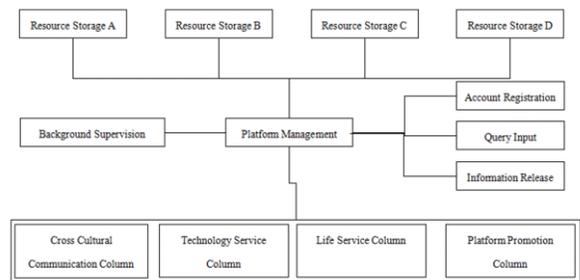
stripe disease and other diseases and pests, the prevention and control effect of 85% or more. The product of the invention is multi-purpose, can greatly improve the efficacy of pesticides and disease prevention, reduce the number of applications, easy to use, save labor and control costs when fertilizer and pesticides are applied together.

21: 2021/03170. 22: 5/11/2021. 43: 5/27/2021
 51: E21F; G01B
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: YIN, ZHIQIANG, CHANG, JUCAI, QI, CHAO, JIANG, ZHIXIONG, CHEN, ZHIYU
 33: CN 31: 202010592987.6 32: 2020-06-25
54: MONITORING DEVICE AND MONITORING METHOD FOR ROADWAY SURROUNDING ROCK ROOF DISPLACEMENT

00: -
 Disclosed is a monitoring device and method for monitoring roadway surrounding rock displacement. Connecting rods are provided with internal and external threading, double-toothed spur gears are fixed to, and driven to rotate the rods, a crawler belt, driven by a hand crank, is tightly spread on the rods, each connecting rods are by threads, so the connecting rods are driven to ascend in sequence. When the connecting rods reach the top, a weak magnet is attracted to a drooped contact of a multipoint displacement meter in a roadway surrounding rock hole activating a double-acting switch, causing a laser beam to be emitted. An optoelectronic component receives the laser, calculates the path distance, transfers a signal to a conversion unit and a display unit. The crank is swung until the magnet is butted against a measuring disk of the displacement meter. Repetition of the operation provides roadway surrounding rock displacement.



C and Resource Storage D; each said resource storage has different kind of resource stored inside respectively; user can realize query input and information release at the entrance of said management platform after finishing a real-name registration for legit account; background supervision is demanded during account registration and information release; said management platform enables user to release, search and review information thus promote informationization of local public cultural communication and improve effectiveness of public cultural service; eventually a public culture oriented big data platform can be built with multi-service functions available to users through web pages, mobile apps and smart TVs; it can provide one-stop public culture service to the public; said real-name registration system can improve safety level for users in this platform.



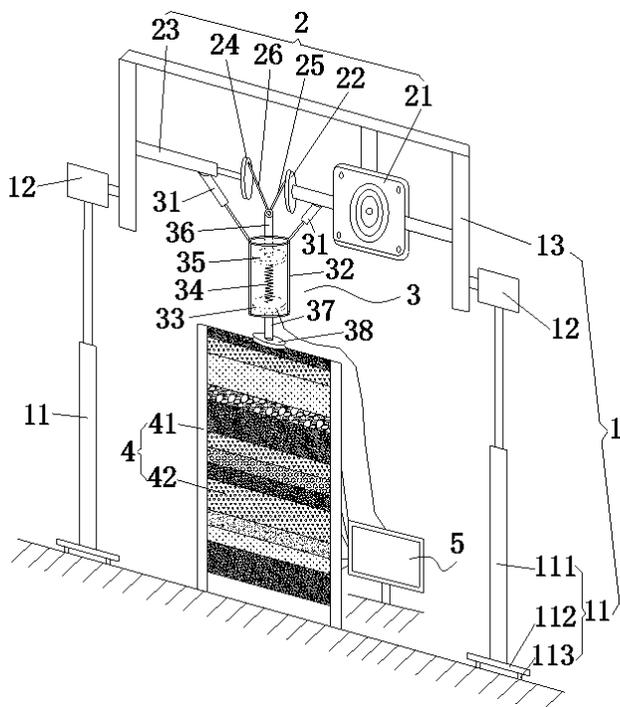
21: 2021/03204. 22: 5/12/2021. 43: 5/27/2021
 51: G06F; G06Q
 71: Zhengzhou University of Aeronautics
 72: Jingya Yue, Shaodan Feng, Yujie Su, Yunliang Jiang, Jianhua Sun
54: A DIGITAL PUBLIC CULTURAL SERVICE MANAGEMENT PLATFORM
 00: -
 Disclosed is a digital public cultural service management platform, comprising management platform, background supervision system, resource storages, account management system and service columns; said resource storages are Resource Storage A, Resource Storage B, Resource Storage

21: 2021/03207. 22: 5/12/2021. 43: 5/28/2021
 51: G01N
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: CHANG, JUCAI, XIONG, TENGGEN, SHI, WENBAO, LI, CHUANMING, DING, YU
 33: CN 31: 202011260627.2 32: 2020-11-12

54: MULTI-ANGLE DYNAMIC LOAD EXPERIMENTAL LOADING DEVICE AND EXPERIMENTAL METHOD THEREOF

00: -
 Disclosed is a multi-angle dynamic load experimental loading device and an experimental method. The device comprises a support device, a drive device, a loading system, a similar simulation experimental model and a monitoring system. The support device comprises lower supports and an upper support; the upper support can be rotatably fixed to two vertically arranged lower supports; the drive device and the loading system are fixed to the upper support; the upper support rotates to drive the drive device and the loading system to rotate; a drive

end of the drive device is connected with the loading system; the drive device is driven to enable the loading system to realize load change; the similar simulation experimental model is arranged below the loading system; the bottom of the loading system is attached to the top of the similar simulation experimental model; and the monitoring system is electrically connected with the loading system and the similar simulation experimental model.



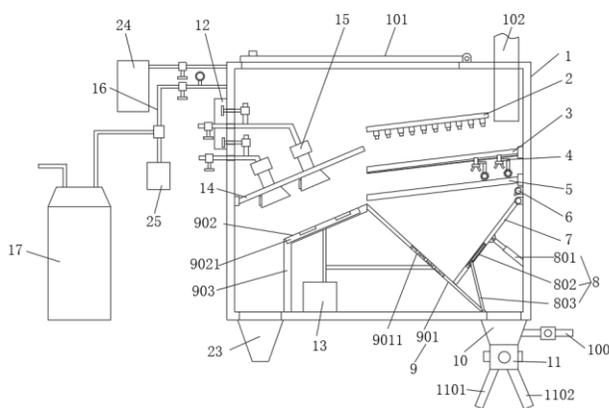
21: 2021/03305. 22: 5/13/2021. 43: 5/28/2021
51: B01D; B07B; E21B
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, CHINA UNIVERSITY OF MINING AND TECHNOLOGY

72: YANG, JINGFEN, XU, HONGJIE, SANG, SHUXUN, LIU, HUIHU, CAO, LIWEN, HUANG, HUAZHOU, WANG, HAIWEN, LIU, SHIQI, LIU, CHANGJIANG, ZHOU, XIAOZHI, JIA, JINLONG, WANG, RAN, WANG, BOWEN, FANG, ZEZHONG
33: CN 31: 202010636650.0 32: 2020-07-03

54: EXPERIMENTAL METHOD FOR CONTINUOUS SEPARATION OF MIXTURE OF GAS-CONTAINING COAL AND WATER

00: -
This invention relates to an experimental method for continuous separation of a mixture of gas-containing coal and water. The correct mesh number and inclination angle of the sieve plates are adjusted, and the storehouse placed in a vacuum. The mixture

is discharged into a storehouse and screened by a level-1 and level-2 sieve plate. Larger coal particles are screened out to flow through a stripper plate and discharged. Fine coal particles and water are discharged downwards into a collecting cavity encircled by a water baffle and a level-3 sieve plate. The first heating mechanism heats coal particles flowing through the stripper plate to desorb coalbed methane. Water passes through the level-3 sieve plate and fine coal particles gather in the collecting cavity. A second heating mechanism heats the coal particles on the water baffle to desorb the coalbed methane.



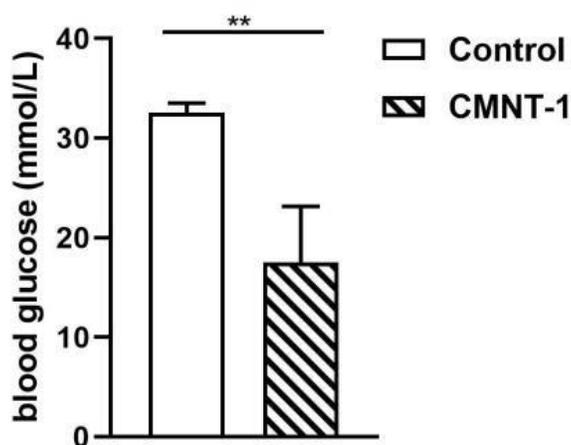
21: 2021/03366. 22: 18/05/2021. 43: 5/20/2021
51: A23L

71: LIU, Dongbo
72: LIU, Dongbo, WU, Ruiyu, LI, Jian, LAI, Xihu
33: CN 31: 201910568238.7 32: 2019-06-27

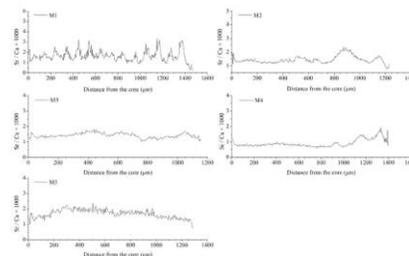
54: COMPOSITION FOR TREATING DIABETES BASED ON CHINESE MEDICAL NUTRITION THERAPY AND APPLICATION OF COMPOSITION
00: -

Disclosed is a composition for treating diabetes based on Chinese medical nutrition therapy (CMNT) and an application of the composition. The composition is mainly composed of multiple natural raw materials including food and medicine homologous raw materials. The composition is a low-glycemic index (GI) composition, and includes multiple compound components existing in forms of available carbohydrates, fat and dietary fibers. Based on a daily dose, an existence amount of the dietary fibers in the composition is 10-40 g; total energy of the composition is 400-1300 calories, where energy provided by an existence amount of the available carbohydrates is 15-45% of the total energy of the composition; energy provided by an

existence amount of the fat is 40-80% of the total energy of the composition; and mass of unsaturated fatty acids is 50-80% of the total mass of the fat. The composition provided by the present disclosure emphasizes on a 'three-low three-high' diet structure of low GI, low calorie, low content of available carbohydrates, high unsaturated fatty acid content, high dietary fiber content and high food and medicine homology, and adopts an intermittent fasting manner. Thus, blood glucose levels of diabetic patients can be effectively lowered.



with a line scanning mode; screening out indicator elements Sr and Ca; analyzing changes of Sr/Ca values from a core to an edge of a sagittal plane of the otolith; and evaluating the impact of the hydro-junction on the fish habitat. Such method has a fast detection and a high accuracy, facilitating accurately evaluating the impact of the hydro-junction on an aquatic habitat.



21: 2021/03372. 22: 5/19/2021. 43: 5/21/2021
 51: G01N
 71: SHANGHAI OCEAN UNIVERSITY
 72: LI, Jianhua, LIU, Yaqiu, LIU, Bilin, FANG, Xueyan, ZHU, Shuli

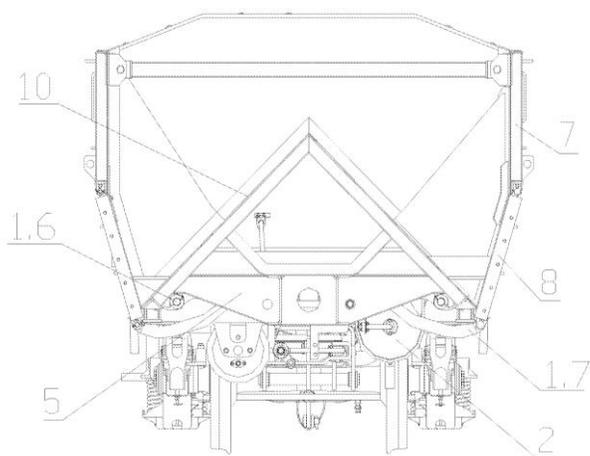
54: METHOD FOR EVALUATING IMPACT OF HYDRO-JUNCTION ON FISH HABITAT BASED ON IN-SITU TRACE ELEMENTS IN OTOLITH MICRO-AREA

00: -
 A method for evaluating an impact of a hydro-junction on a fish habitat based on in-situ trace elements in an otolith micro-area, including: collecting a *Megalobrama hoffmanni* sample along the hydro-junction; extracting an otolith from a statocyst of a head of the *Megalobrama hoffmanni* sample; grinding the otolith in a grinding mold; embedding the otolith with a prepared cold embedding resin followed by hardening in a cool place; subjecting the otolith to laser ablation sampling by using a laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS)

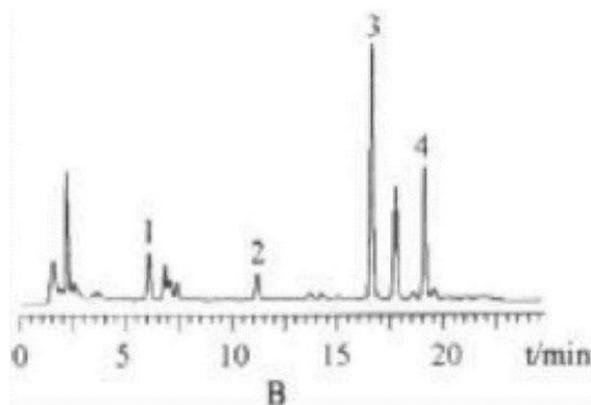
21: 2021/03381. 22: 19/05/2021. 43: 5/21/2021
 51: B61D
 71: CRRC MEISHAN CO., LTD.
 72: WANG, Yi, ZHAO, Shouxin, ZHANG, Ruiguo, YANG, Shiwei, LI, Dong, LI, Jianchao, WANG, Aimin, HAN, Jingang, HUANG, Rui, XUE, Hailian, YUAN, Liang, LI, Xinhui, YANG, Yanping, XIE, Lin, ZHONG, Xiaofeng, LI, Junsheng, LU, Qiang
 33: CN 31: 201811512092.6 32: 2018-12-11
54: TWO-SIDE UNLOADING HOPPER CAR
 00: -

A two-side unloading hopper car, comprising a car body, an unloading system, a braking device, a coupler buffering device, and a bogie, wherein the cross section of a car body compartment is W-shaped; the middle part of a car body underframe (5) has the structure of a triangular ridge back plate (10) that is provided along a longitudinal central axis and higher than two sides; side walls comprise fixed side walls (7) at upper parts, and openable and closable side walls (7) at lower parts and hingedly connected with the fixed side walls (7); the ridge back plate (10) and the side walls (7) of the car body underframe (5) constitute hopper-shaped unloading structures at the two sides of the car body; the unloading system comprises an openable and closable mechanism (1); the openable and closable mechanism (1) comprises a worm transmission mechanism and a crank linkage mechanism; the openable and closable mechanism (1) of the unloading system is further provided with a secondary stopping device (3). The unloading

system has a large transmission ratio, unloading is performed by means of gravity, two side doors at one end are opened at one time, the opening degree of the side door is large, and the unloading efficiency is high; the unloading system has a dual self-locking function, and achieves the self-locking function by means of the self-locking characteristic of a worm and a gear, and the stopping device.



and thus collects eluent B; after recycling ethyl alcohol from eluent B, the eluent B will be concentrated and dried to constant weight, and thus obtains the angelica root extract containing xanthotoxol. The process of the present invention is simple, cost-effective, and the extraction solvent used is ethyl alcohol, has no toxic side effect, is suitable for large-scale industrial production.



21: 2021/03538. 22: 5/25/2021. 43: 6/11/2021
51: C07D
71: Anhui Science And Technology University
72: Zhang Xinyong, Dou Jinfeng, Fang Yanxi, Zhou Lili

54: A METHOD OF EXTRACTING XANTHOTOXOL FROM THE ROOT OF ANGELICA DAHURICA

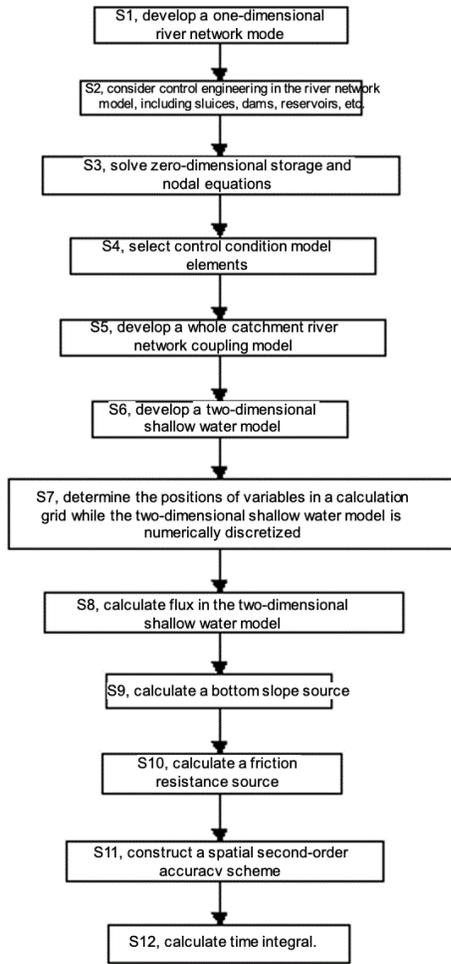
00: -
The present invention discloses a kind of method of extracting xanthotoxol from the root of angelica dahurica, consists of adding cellulase in angelica dahurica powder to complete enzymolysis, and thus obtains enzymolysis liquid A; then, adding pectase in enzymolysis liquid A to complete secondary enzymolysis, and thus obtains enzymolysis liquid B; adding proper amount of Ethanol solution in enzymolysis liquid B, and thus obtains supernatant after ultrasonic extraction and centrifugation; and then obtains sample stoste after membrane separation and filter of supernatant; the sample stoste directly crosses macroporous absorbent resin, and is washed with water several times firstly, discards water lotion, then to be eluted by ethanol with volumetric concentration of 40-60%, discards the gained eluent A, and continues to be eluted by ethanol with volumetric concentration of 70-85%,

21: 2021/03566. 22: 5/26/2021. 43: 6/9/2021
51: G06F
71: China Institute of Water Resources and Hydropower Research
72: Zhang Hongbin, Zhang Cheng, Zhu Cheng, Jiang Xiaoming, Liu Yun, Wang Yanwei, Deng Jun, Yang Xiaojing, Qiao Nan, Qin Tianling, Jiang Xinlan, Zhou Bo

54: FLOOD ANALYSIS METHOD BASED ON ONE-DIMENSIONAL RIVER NETWORK GENERALIZATION AND HIGH-PERFORMANCE ONE-TWO-DIMENSIONAL COUPLING

00: -
The invention provides a flood analysis method based on one-dimensional river network generalization and high-performance one-two-dimensional coupling, comprising the steps of establishing a one-dimensional river network model, a confluence model, a whole basin river network coupling model and a two-dimensional shallow water model. Zero-dimensional storage and nodal equations are calculated, and control condition is selected. The control effects of weirs, sluices and pumps on water flow motion are analyzed by using the control condition. When the two-dimensional shallow water model is numerically discretized, the positions of variables in a calculation grid are determined, and the flux, a bottom slope source item and a friction source item in the two-dimensional

shallow water model are calculated. A spatial second-order accuracy scheme is constructed and a variety of boundary conditions are set. According to the data, a set of flood control systems is formed, and the numerical simulation of the operation mode of engineering control is carried out to achieve the effective simulation and forecast of flood.



21: 2021/03573. 22: 5/26/2021. 43: 6/9/2021
51: E21F

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

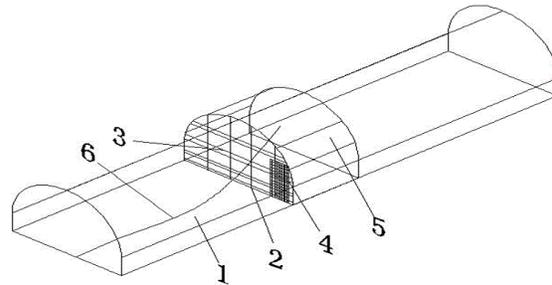
72: Wenbao SHI, Jucai CHANG, Haifeng MA, Chuanming LI, Changdong DING

54: METHOD AND DEVICE FOR PLUGGING UNDERGROUND ROADWAY

00: -

The present disclosure a method and device for plugging an underground roadway, characterized in that a partition wall is constructed at the blocking

position of the roadway, which is composed of steel bars, wooden boards and steel mesh, and then the filling bag is installed in a closed space, set up a filling pump station at a suitable position outside the partition wall, and then stirred high condensation water materials to make filling materials, the filling materials are injected through pipelines to form a blocking body. The technical scheme of the present invention has the advantages of simple structure, convenient operation and lower cost.



21: 2021/03574. 22: 5/26/2021. 43: 6/4/2021
51: G01C

71: Anhui University of Science & Technology, Huaibei Mining Co., Ltd.

72: FAN, Tingyu, LU, Akang, WANG, Yulian, ZHONG, Jian, WANG, Shun, WANG, Xingming, YAN, Jiaping, HUANG, He, CHEN, Xiaoyang, XU, Liangji, NI, Jianming, WEI, Xiangping, WANG, Dashe

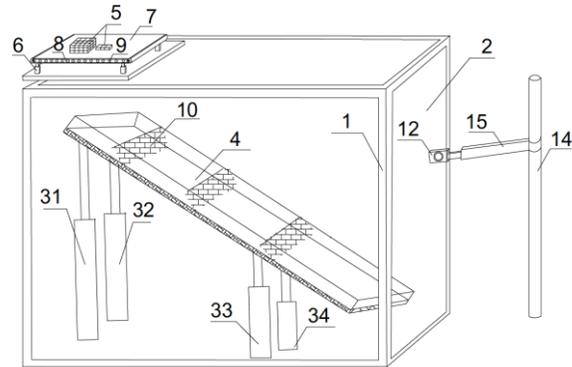
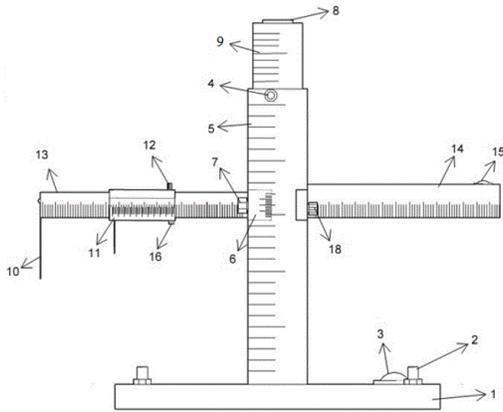
33: CN 31: 202010651672.4 32: 2020-07-08

54: TENSION FRACTURE SLOPE MEASURING DEVICE

00: -

The present disclosure relates to a tension fracture slope measuring device. The tension fracture slope measuring device comprises a horizontal base, the horizontal base is provided with leveling screws, the outer surface of the upper end of the horizontal base is fixedly connected to a first level bubble, the outer surface of the upper end of the horizontal base is detachably connected with a main vertical ruler, the outer surface of the main vertical ruler is sleeved with a sleeve, the outer surface of the sleeve is connected with a horizontal ruler, the sleeve can move up and down along the main vertical ruler, the outer surface of the sleeve is fixedly connected with a vertical precision ruler, and the outer surface of the horizontal ruler is provided with a second level

bubble; and a telescopic vertical ruler is arranged at the upper end of the main vertical ruler.



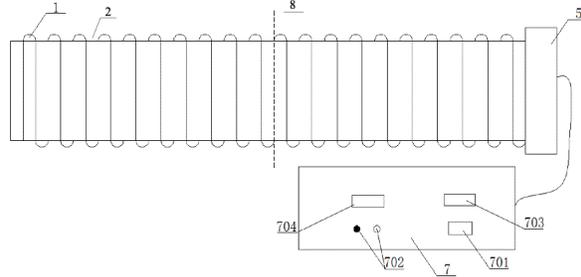
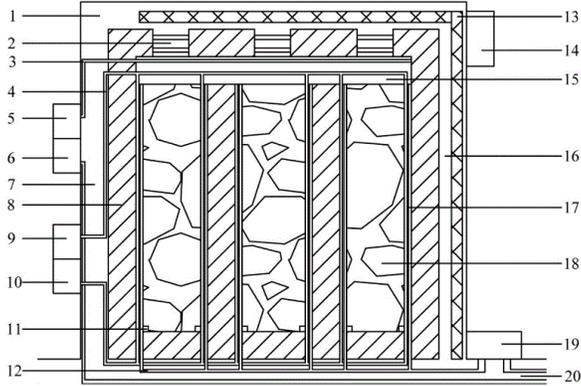
21: 2021/03613. 22: 5/27/2021. 43: 5/28/2021
 51: G09B
 71: Anhui University of Science and Technology
 72: Zhen WEI, Ke YANG, Tong ZHANG, Xiaolou CHI, Xin LV

54: AN EXPERIMENTAL PLATFORM FOR ACCURATE SIMULATION OF FLYING GANGUE DISASTER OF THE STEEPLY INCLINED COAL SEAM AND AN APPLICATION METHOD

00: -
 The present invention provides an experimental platform for accurate simulation of flying gangue disaster of the steeply inclined coal seam and an application method, which includes the slide groove model of flying gangue, starting model of flying gangue, gangue-shielding model and velocity measuring model. The present invention is operated according to the following steps: launching rocks with the starting model of flying gangue, simulating the bottom of working plane with the slide groove of flying gangue and the protection system against flying gangue with the gangue-shielding model, finally monitoring and recording the movement trajectory of flying gangue by the velocity measuring model, in order to realize the accurate simulation of flying gangue disaster in the steeply inclined coal seam in the laboratory with different geological conditions. The present invention is of great significance to the flying gangue control and prevention in the steeply inclined coal seam.

21: 2021/03614. 22: 5/27/2021. 43: 5/28/2021
 51: C10J
 71: Anhui University of Science and Technology
 72: Xin LV, Ke YANG, Qiang FU, Yu WANG, Wenjie LIU, Zhainan ZHANG, Juejing FANG
54: A GASIFIER THAT GENERATES POWER FROM COAL AND COAL GANGUE IN THE UNDERGROUND MINE AND A GASIFYING METHOD THEREOF
 00: -

The present invention specifically discloses a gasifier that generates power from coal and coal gangue and a gasifying method. The gasifier is placed in the coal seam which is dug with a main roadway of the mine, an operation roadway, an equipment roadway and a transportation roadway; a gas injection chamber is dug in the main roadway of the mine, and the gas injecting pipe is connected to gasifying path; a scraper conveyor is installed in the transportation roadway for coal gangue transportation, and a manual operation room is dug at the end of the transportation roadway; two chambers are dug in equipment roadway, respectively connecting two pipes; an electric igniter is placed under the gasifying path; multiple double-layer isolating doors are installed at the upper part of supporting isolation wall. The gasifier can be used to gasify coal or coal gangue, featuring recyclability and full use of energy.



21: 2021/03615. 22: 5/27/2021. 43: 5/28/2021
51: G08G

71: Anhui University of Science and Technology
72: Wenjie LIU, Ke YANG, Xiaolou CHI, Zhen WEI, Qiang FU, Xiang YU, Xin LV

54: AN ALERTING DEVICE MONITORING DEFORMATION OF RING MAGLEV ROADWAY

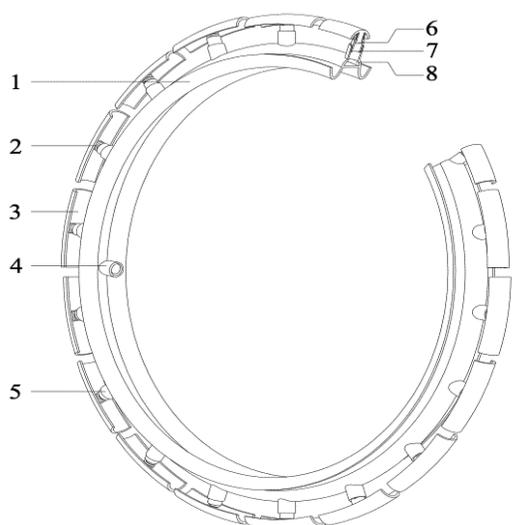
00: -
The present invention discloses an alerting device monitoring deformation of ring maglev roadway comprising a main body of detector; an electromagnetic coil, an electromagnetic sleeve, a fixed head of measuring point and a controller equipped on the main body of detector; wherein, the electromagnetic coil is tightly screwed and wrapped on the surface of the electromagnetic sleeve; the electromagnetic sleeve is equipped with a central sleeve on the center line inside; the controller is equipped with a master switch, an alerting light, a displacement display and a coil switch; the controller is installed with programs of difference calculation and overflow alarm inside. The result shows that the structure is consolidated and stable; the identification and calculation of the controller is fast; the position of the electromagnetic coil is accurate, obtaining a monitoring device of roadway deformation and displacement.

21: 2021/03616. 22: 5/27/2021. 43: 5/28/2021
51: E21C; E21D

71: Anhui University of Science and Technology
72: Shuai LIU, Ke YANG, Yankun MA, Xin LV, Juejing FANG

54: AN APPLICATION METHOD OF AN ANTI-IMPACT AND CO-RELIEVING ANNULAR SUPPORT IN DEEP WELL ROADWAY

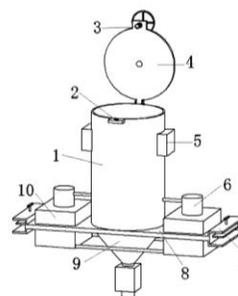
00: -
An application method of an anti-impact and co-relieving annular support in deep well roadway, based on support erection, pressure control and displacement monitoring, comprising the steps of: nesting a supporting bearing column with a connecting bearing pipe and a pressure releasing spring in sequence, connecting an external bearing port on the periphery of an annular support through the thread on an external bearing pipe; placing an annular support in a deep well roadway, connecting a hydraulic control port with a hydraulic pump, and controlling the injection pressure to plug the hydraulic control port; measuring pressure change in the hydraulic chamber with an apparent pressure, monitoring displacement change of each supporting bearing plate. The invention can support a deep well roadway; on the one hand, it is safe and reliable, convenient and fast, and low in cost, and on the other hand, it can effectively prevent impact pressure.



21: 2021/03619. 22: 5/27/2021. 43: 6/9/2021
 51: A23F
 71: SHAOXING KANGKE CAPSULE CO., LTD
 72: YU, Yu, YU, Dong, YU, Sanyu, YU, Xuwen, WANG, Mengjun

54: TEA DRINKING CAPSULE AVAILABLE FOR TEA DRINKING MACHINE

00: -
 Disclosed is a tea drinking capsule available for a tea drinking machine. A bottom plate is fixedly mounted at the bottom of the tea drinking capsule. Water tanks are fixedly mounted on two sides of the bottom plate. A connecting water pipe is fixedly mounted between the two tanks. A micro water pump is fixedly mounted at the top of each tank, and a drainage pipe is fixedly mounted at an output end of the micro water pump. A condensed water pipe is arranged inside the tea drinking capsule. Tea leaves are added into the tea drinking capsule and then brewed with hot water. A filter screen blocks tea leaves from falling to the bottom of the tea drinking capsule. Water in one water tank is pumped by the micro water pump, injected into the condensed water pipe through the drainage pipe, and returned to the other tank for recycling.

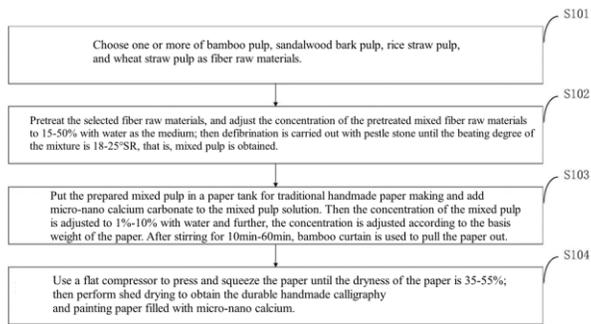


21: 2021/03660. 22: 5/28/2021. 43: 6/4/2021
 51: D21H

71: Zhejiang University of Science and Technology
 72: Zhang Xuejin, Tian Yulong, Sha Lizheng, Zhao Huifang, Hu Zhijun, Guo Daliang, Xu Yinchao

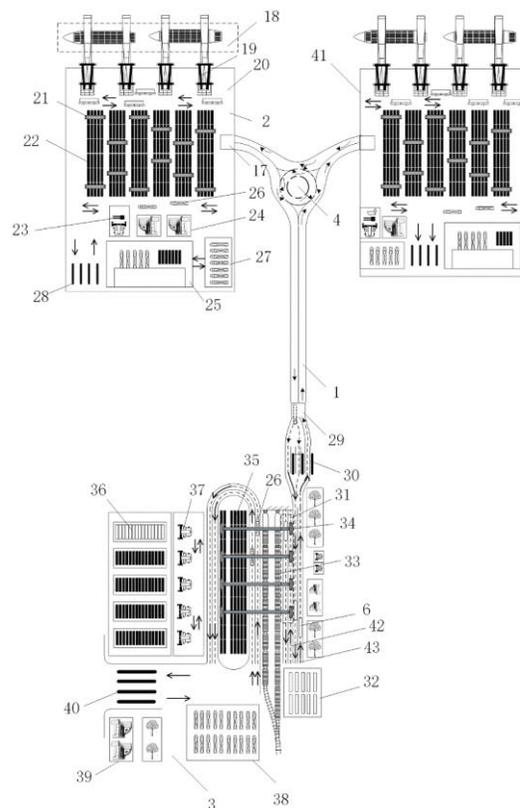
54: DURABLE HANDMADE CALLIGRAPHY AND PAINTING PAPER FILLED WITH MICRO-NANO CALCIUM AND PREPARATION METHOD THEREOF

00: -
 The invention belongs to the technical field of pulping and papermaking, and a durable handmade calligraphy and painting paper filled with micro-nano calcium and a preparation method thereof are disclosed. The preparation method of the durable handmade calligraphy and painting paper filled with micro-nano calcium comprises the following steps of preparing micro-nano calcium or weakly alkaline micro-nano calcium in situ in a weakly alkaline environment, and then adopting a direct filling method to fill the micro-nano calcium into the fiber raw materials during the pretreatment of defibrination or paper making process. As a result, the durable handmade calligraphy and painting paper filled with micro-nano calcium is prepared. The invention prepares micro-nano calcium or weakly alkaline micro-nano calcium by a weakly alkaline in-situ preparation method, and micro-nano calcium is applied to defibrination pretreatment or paper making process through a direct filling method, thereby the filling of micro-nano calcium in the fiber raw materials is achieved, which gives calligraphy and painting paper excellent durability, ink absorption and tensile strength. The paper product of the present invention has good stability and environmental protection performance, and the technology and product have a wide application range and broad prospects.



21: 2021/03670. 22: 5/28/2021. 43: 6/9/2021
 51: B65G
 71: Shanghai Maritime University
 72: Liang Chengji, Hu Xiaoyuan, Lu Houjun, Wang Yu, Pan Yang, Zhang Yue, Gao Yinping, Chang Daofang
 33: CN 31: 202010478525 .1 32: 2020-05-29
54: A CONTAINER SEA-RAILWAY COMBINED TRANSPORT SYSTEM BASED ON UNDERGROUND CHANNEL

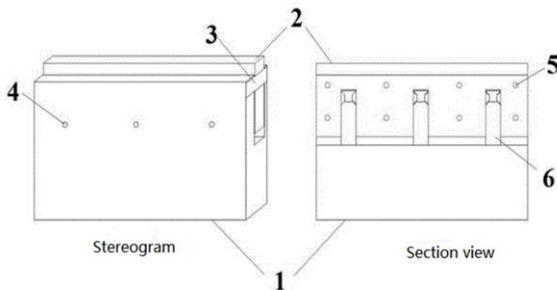
00: -
 The invention discloses a container rail-sea intermodal transportation system based on underground channel, comprising: a first automated container terminal, a container railway central station, an underground channel, and a second automatic container terminal. The container railway central station is connected with the first automatic container terminal and the second automatic container terminal via the underground channel. The first automatic container terminal is connected with the second automatic container terminal. The underground channel comprises: a main building and an auxiliary device. The main building comprises a roundabout. The roundabout is set between the entrance and exit of the underground channel of the first automatic container terminal and the second automatic container terminal. The auxiliary device comprises: magnetic nail, ventilation device, indicator light, lighting device, fire-fighting device, emergency communication device, blind ditch and drainage ditch. The embodiment of the invention can effectively improve the transportation efficiency and safety in the transportation process. In addition, it can ensure the efficiency of rail-sea intermodal transportation and alleviate the ground traffic congestion.



21: 2021/03707. 22: 5/31/2021. 43: 6/2/2021
 51: E21F
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Xinyuan ZHAO, Ke YANG, Xinwang LI, Lichao CHENG, Yiling QIN, Zhen WEI, Xiang HE, Xing LV
54: PROCESS SYSTEM AND CONSTRUCTION METHOD OF SOLID FILLING ALONG FILLING AND RETAINING ROADWAY

00: -
 In order to directly retain the roadway in the solid filling process, the present invention discloses a process system and construction method of solid filling along filling and retaining roadway. The process system of solid filling along filling and retaining roadway includes a whole set of gangue blocking and grouting equipment, such as a set of self-made telescopic high-strength gangue blocking plates, a filling material mixer, a high-pressure grouting machine and grouting pipeline system, and their cooperation in time and space. A special process in this system includes fixing self-made gangue retaining plates and directly using high-pressure grouting, etc. The specific construction method includes: erecting a gangue retaining plate;

stirring the grouting material; inserting the grouting pipeline; high pressure pumping; and forming a roadside body. The present invention has the following advantages: it can solve problems such as a complex process and a poor effect when a conventional support method such as a gangue bag is used, and can reduce equipment quantity, material costs, and manual work required for filling roadway retaining, the goaf filling and retaining roadway operations do not interfere with each other, the goaf filling body and the roadway side filling body can be closely connected, integrated and supported together, so as to complete both filling and roadway retaining.



21: 2021/03748. 22: 6/1/2021. 43: 6/2/2021
51: B29C

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

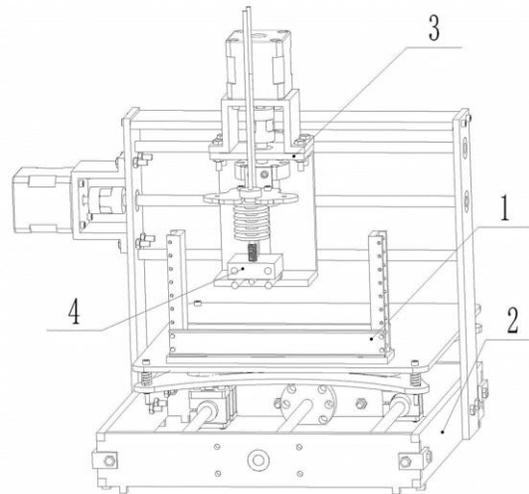
72: Qiang FU, Ke YANG, Xing LV, Qinjie LIU, Yu WANG, Zhainan ZHANG, Yun HAN, Yujing FANG, Peng ZHOU

54: MINE SIMILAR SIMULATION 3D PRINTING EXPERIMENT SYSTEM

00: -

The present disclosure a mine similar simulation 3D printing experiment system, it belongs to the field of mine similarity simulation, the printing system includes a mould mechanism, a mould moving mechanism, a filler moving structure and a filling mechanism. The mould mechanism includes a fixed base, a fixed baffle, and a detachable baffle. The mould mechanism is mainly used to define the external outline of 3D printing. The function of the mold moving mechanism is to adjust the movement of the mold mechanism in the front and rear directions. The filler moving structure includes a side vertical plate, a second motor, a second motor mounting seat, a second lead screw and a reinforcing transverse plate, the function of the filler

moving structure is to adjust the up and down movement of the filling mechanism and adjust the horizontal movement perpendicular to the direction of movement of the mould moving mechanism. The filling mechanism includes a material pipe mounting plate, material pressing roller, material mixing block, printing spray head, a first material pipe and a second material pipe, the filling mechanism is used for injection molding and compaction of materials. The present invention solved the problem of discrete mixing and layering in the prior art.



21: 2021/03749. 22: 6/1/2021. 43: 6/2/2021
51: B29C

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

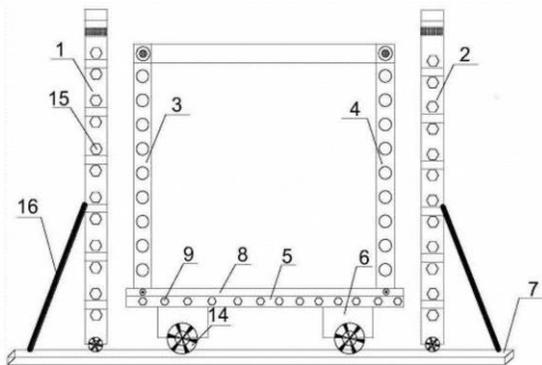
72: Zhen WEI, Ke YANG, Xiaolou CHI, Huining NI, Qiang FU, Jiyao WANG, Xing LV, Yujing FANG

54: VARIABLE-ANGLE SIMILAR SIMULATION EXPERIMENT BENCH

00: -

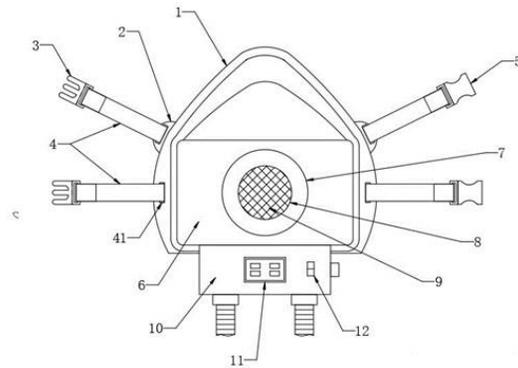
The present invention relates to a variable-angle similar simulation experiment device which includes a left safety support, a right safety support, a left frame, a right frame, a base, an experiment table, rails, a telescopic floor, a support rod bolt hole, a telescopic support rod, a bolt. A left end of the telescopic floor is connected with the base through the bolt hole, and an included angle between the floor paved with similar materials and a horizontal plane is adjusted by the telescopic support rod. Its characteristics are: the inclination angle of the telescopic floor is adjusted through telescopic support rod, the inclined experiment bench is fixed to

the left and right safety supports through the bolt, which guarantees the experiment safety and stability. The device of the present invention can be used to directly lay a similar material on the inclined bottom floor, the time for manufacturing the simulation model is saved the present invention has the advantages of simple structure, safe operation, good stability and high reliability, or the like, which can effectively solve the problem of difficult in the inclined coal rock strata simulation process, and has good practicability.



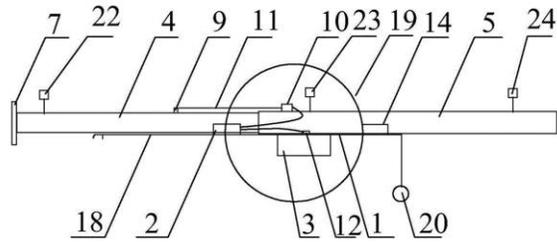
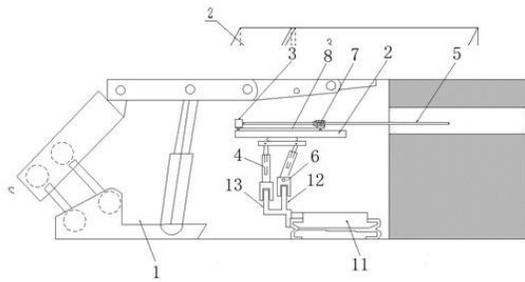
21: 2021/03750. 22: 6/1/2021. 43: 6/2/2021
 51: E21F
 71: Anhui University of Science and Technology
 72: Wenbao SHI, Jucai CHANG, Haoyan LI, Fanfan YAO
54: A TRACKING-MODEL DUST MASK USED FOR AIR VOLUME AND HUMIDITY ADJUSTMENT IN THE MINE

00: -
 The present invention provides a tracking-model dust mask used for air volume and humidity adjustment in the mine, comprising a main body of dust mask, an ear strap, a male buckle, an elastic harness, a female buckle and a breathing case, wherein, the main body of dust mask is installed with the breathing case at the front side; the main body of dust mask is equipped with ear straps at the left and right sides; the main body of dust mask is equipped with elastic harnesses at the left and right sides; the breathing case is installed inside with the breathing cylinder; the interior of the front side of the breathing cylinder is opened with the air outlet. By sending fresh air through the master controller into the mask, the present invention enables the driver of coal mining machine to breath freely and work comfortably when tracking the machine.



21: 2021/03751. 22: 6/1/2021. 43: 6/2/2021
 51: E21F
 71: Anhui University of Science and Technology
 72: Min TU, Benqing YUAN, Xiangyang ZHANG, Qingwei BU, Qingchong ZHAO, Jiabin DANG, Gaoming ZHAO
54: A DRILLING OPERATION DEVICE OF OUTBURST DANGER PREDICTION ON THE STOPE WORKING PLANE AND A METHOD THEREOF

00: -
 A drilling operation device of outburst danger prediction on the stope working plane comprises: an operation platform, an electrical coal drill at the upper side of the operation platform, two lifting cylinders, wherein, a twisting drill rod is installed in front of the electrical coal drill, a fixture device supporting the twisting drill rod is installed at the upper side of the operation platform; a slide bar is placed at the upper side of the operation platform; the upper side of the slide bar is hitched with a slide block; the fixture device is fixed on the slide bar, a power device is placed on the electrical coal drill; a scraper conveyer is placed at one side of the lifting cylinder. The present invention largely cuts manual work load and improves accuracy when increasing the safety of outburst danger prediction on the slope working plane.

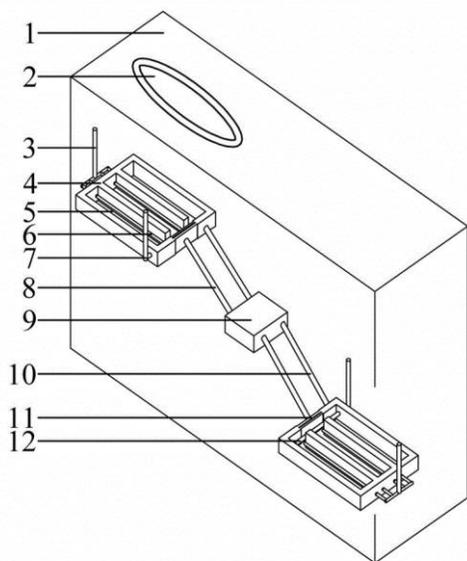


21: 2021/03752. 22: 6/1/2021. 43: 6/2/2021
 51: G01B
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Hualei ZHANG, Dongdong PANG, Ming BAO
54: AUTOMATIC STABILITY MEASURING VEHICLE OF ADVANCE ROADWAY AND APPLICATION METHOD THEREOF
 00: -

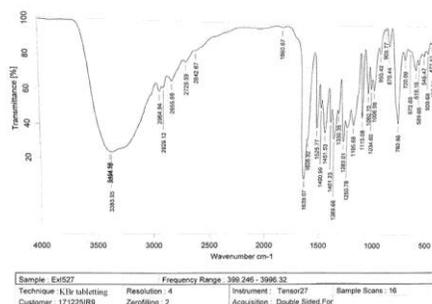
The patent invention discloses an automatic stability measuring vehicle of advance roadway, which includes a vehicle body and an improved single hydraulic prop detachably fixed on the vehicle body; The vehicle body includes a carriage plate, on which an improved single hydraulic prop is detachably fixed, a displacement metering system, a hydraulic metering system, a tunnelsize measuring system, an controlling device and a storage box are also arranged on the carriage plate; The improved single hydraulic prop is connected with displacement metering system, hydraulic metering system, and tunnelsize measuring system respectively. The automatic stability measuring vehicle of advance roadway described in the present invention has the following advantages: cyclic injection, and use existing emulsion to serve the whole process of liquid injection; an improved single hydraulic prop is installed on the vehicle, which can ensure that workers do not need to carry a single body for a working distance of thousands of meters, thus greatly reducing the workload and work intensity; There is a storage box on the vehicle, which can transport dozens of pounds of stampers and other measuring parts.

21: 2021/03753. 22: 6/1/2021. 43: 6/2/2021
 51: E02B
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Xing LV, Ke YANG, Qiang FU, Yu WANG, Xiaolou CHI, Yujing FANG
54: A PUMPED STORAGE POWER GENERATION METHOD OF USING UNDERGROUND GASIFICATION ABANDONED MINES
 00: -

The present invention disclosure a pumped storage power generation method of using underground gasification abandoned mines, includes coal seam gasification, roadway reconstruction, water supply and power generation, and pumping, comprised the following steps: select levels, build supporting separation walls inside and outside the coal seam, drill vertical holes to install gas transmission pipes and gas transmission pipes, connected with gas injection pipes and gas collection pipes, the coal seam and gas are ignited by an electronic igniter, outputting the gas collected by the gas collection pipe through the gas transmission pipe, extinguishing the gasification working face after it is fully burned, and clean up the combustion residue; waterproof and reinforcing the supporting separation wall, expanding the gas delivery pipe into a water pipe channel, connected with the ground pond, excavating a power generation pump room, excavating a water supply roadway and a water delivery roadway, connecting the power generation pump room and all levels; storing the ground water source in a high level in advance, open the water supply roadway at the peak of electricity consumption, driving a hydro-generator in a power generation pump room to generate electricity by utilizing the potential energy of the water body; at the valley of electricity consumption, the pressure pump in the power generation pump room is used to send the water source stored in the low level to the high level through the water delivery roadway.



methanol, and the eluent is collected to obtain the alkaloid compound.



21: 2021/03754. 22: 6/1/2021. 43: 6/3/2021

51: C07H

71: GUANGXI ACADEMY OF AGRICULTURAL SCIENCES

72: HE, Xuemei, SUN, Jian, TANG, Yayuan, LIU, Guoming, YE, Dongqing, LI, Li, LI, Changbao, LI, Zhichun, YANG, Ying, LI, Jiemin, ZHENG, Fengjin, XIN, Ming, YI, Ping, ZHOU, Zhugui, TANG, Jie, CHEN, Xi

33: CN 31: 202110056396.1 32: 2021-01-15

54: AN ALKALOID COMPOUND EXTRACTED FROM BANANA BLOSSOMS AND ITS EXTRACTION METHOD

00: -

The present invention relates to the technical field of alkaloid compound extraction, and in particularly to an alkaloid compound extracted from banana blossoms with the following steps: (1) Fresh banana blossoms are dried in the sun, extracted, filtered, and vacuum-concentrated to obtain the ethanol extract. (2) The ethanol extract is dispersed into water, and extracted with petroleum ether and ethyl acetate in turn to obtain the ethyl acetate extractum. (3) The ethyl acetate extractum is dissolved in methanol and eluted by the silica gel chromatographic column in which methanol and chloroform-methanol are the eluents, respectively. (4) It is further eluted by HPLC and silica gel chromatographic columns. (5) Constant flushing is made by HPLC and silica gel chromatographic column in turn, followed by elution with chloroform-

21: 2021/03755. 22: 6/1/2021. 43: 6/3/2021

51: B01D

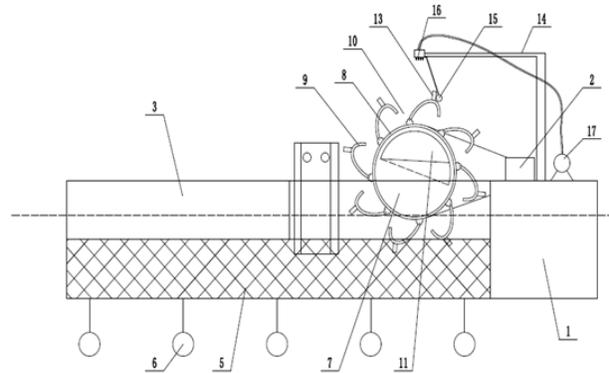
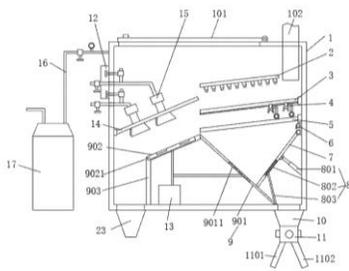
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, CHINA UNIVERSITY OF MINING AND TECHNOLOGY

72: YANG, Jingfen, XU, Hongjie, SANG, Shuxun, LIU, Huihu, CAO, Liwen, HUANG, Huazhou, WANG, Haiwen, LIU, Shiqi, LIU, Changjiang, ZHOU, Xiaozhi, JIA, Jinlong, WANG, Ran, WANG, Bowen, FANG, Zezhong

54: EXPERIMENTAL DEVICE FOR CONTINUOUSLY SEPARATING MIXTURE OF GAS-CONTAINING COAL AND WATER

00: -

The present invention discloses an experimental device for continuously separating a mixture of gas-containing coal and water, including a feeding crusher. Separation equipment includes a bin body; a sealing bin door and a feeding pipe are mounted on a top surface of the bin body; a primary sieve plate is mounted at the top of the interior of the bin body; mesh diameters of the primary sieve plate, a secondary sieve plate and a tertiary sieve plate are sequentially reduced; a heat preservation hood is mounted at the bottom of the secondary sieve plate; the heat preservation hood includes a vertical plate, an unloading plate and a water baffle; a heat preservation pump is mounted inside the heat preservation hoop; a second heating panel is embedded in the surface of the unloading plate; and a first heating panel is embedded in the surface of the water baffle.

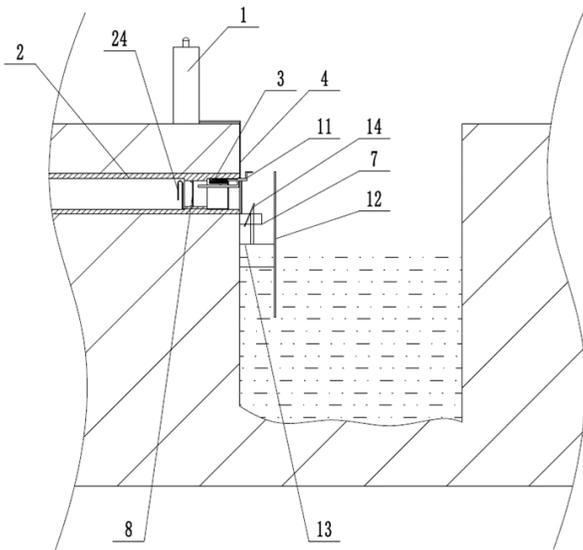


21: 2021/03756. 22: 6/1/2021. 43: 6/3/2021
 51: E03B
 71: SHANGHAI OCEAN UNIVERSITY
 72: LI, Qin, LU, Huajie, CHEN, Xinjun, LIU, Kai, NING, Xin, CHEN, Ziyue
54: A DEVICE FOR MULTI-LEVEL COLLECTION OF MARINE POLLUTANTS

00: -
 A device for multi-level collection of marine pollutants includes a float frame, a drive motor, two gathering arms, a fine material collection mechanism and a coarse material push mechanism. The fine material collection mechanism includes a mounting column, two rotating rings and a plurality of collection plates with a water drainage hole. The plurality of collection plates are provided spaced apart between the two rotating rings. A feeding gap is provided between two adjacent collection plates. An outer wall of an upper part of the mounting column is provided with a discharge groove. A first sorting groove is connected to the float frame. The coarse material push mechanism includes a piston cylinder, a push plate and a feeding tipping bucket. A telescopic rod of the piston cylinder is connected to the push plate. The feeding tipping bucket is hinged with the float frame.

21: 2021/03757. 22: 6/1/2021. 43: 6/3/2021
 51: G05B
 71: SHANGHAI OCEAN UNIVERSITY
 72: LI, Qin, LU, Huajie, CHEN, Xinjun, LIU, Kai, NING, Xin, CHEN, Ziyue
54: A DEVICE FOR MONITORING WATER POLLUTION OF A RIVER CHANNEL

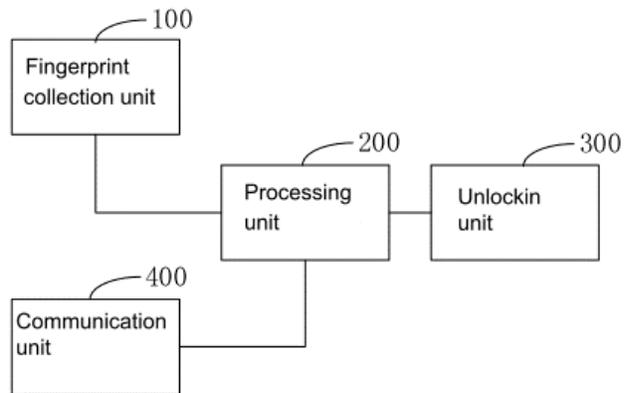
00: -
 A device for monitoring water pollution of a river channel, aiming to enable the accurate detection of water quality. The device includes a water quality detector, a sampling assembly and a sewage pipe buried in the banks of the river channel. The sampling assembly includes a switch connector, a sampling tube, a first branch tube and a second branch tube, where the sampling tube, the first branch tube and the second branch tube are connected to the switch connector. A water collection tank is arranged below an open end of the sewage pipe. One end of the first branch tube is connected to the switch connector, and the other end of the first branch tube extends downward into the collection tank. A one-way valve plate is arranged at an inner wall of the sewage pipe. A switch plug is movably arranged in the switch connector, and is connected with a post rod. One end of the post rod extends out of the sewage pipe, and a pushing distance is provided between the other end of the post rod and the one-way valve plate. A floating tank running through from top to bottom is arranged in the river channel, and a floating object is arranged in the floating tank. The floating object is connected with a push plate which is inclinedly arranged. An end of the second branch tube extends into the sewage pipe and passes through the one-way valve plate, and the second branch tube is placed in the sewage pipe.



21: 2021/03772. 22: 4/12/2021. 43: 6/3/2021
 51: G07C
 71: NINGBO POLYTECHNIC
 72: JIANG, Hao
 33: CN 31: 202010420191.2 32: 2020-05-18
54: SAFETY CABINET DEVICE, UNLOCKING METHOD, AND UNLOCKING SYSTEM
 00: -

A safety cabinet device, an unlocking method, and an unlocking system are disclosed. In the device, a fingerprint collection unit is configured to send first fingerprint information and second fingerprint information to a processing unit. The processing unit is configured to determine whether the first fingerprint information and the second fingerprint information are matched with a fingerprint sample in a predetermined fingerprint database or not, and perform, if matched, unlocking verification on the first fingerprint information and/or the second fingerprint information to obtain a verification result. An unlocking unit is configured to control a state of the safety cabinet device according to the verification result. According to the device, two different pieces of fingerprint information are collected by the fingerprint collection unit, and are matched with the predetermined fingerprint database and subjected to unlocking verification by the processing unit, so as to determine whether the unlocking of the safety cabinet device needs to be controlled, and when the safety cabinet device is unlocked, the communication unit uploads the two pieces of

fingerprint information to a server. As such, the safety of a safety cabinet during unlocking is improved.

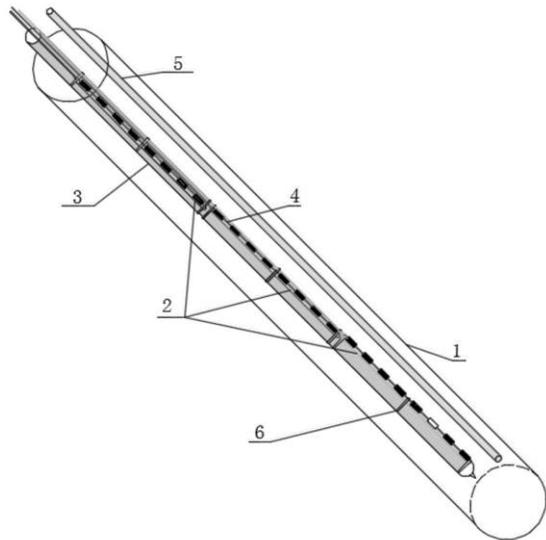


21: 2021/03779. 22: 6/2/2021. 43: 6/4/2021
 51: G01N

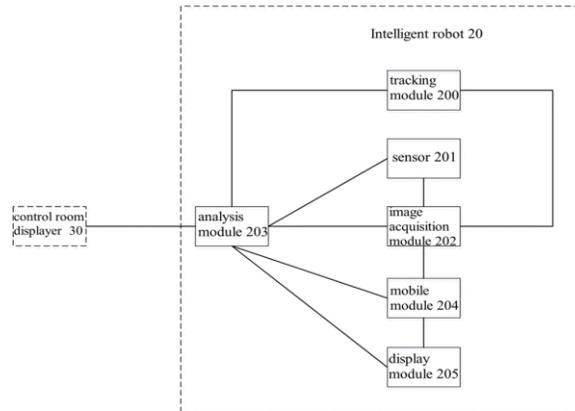
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Dong LI, Jucai CHANG, Wenbao SHI, Kai HE
54: A METHOD FOR TESTING DAMAGE DEPTHS OF COAL SEAM ROOFS AND COAL SEAM FLOORS AFTER WORKING FACE STOPING
 00: -

The invention discloses a method for testing the damage depths of roofs and floors of a coal seam after working face stoping, relates to the technical field of safe stoping at a working face, which include the following steps: S1: Drilling; S2: PVC pipe and optical cable connection; S3: Optical cable lowering down; S4: grouting for the borehole; S5: Optical fiber lead protection; S6: data collection; S7: Data processing. In the step S1, when the position for drilling is selected, if it is selected to be in the wind tunnel, try to be as close as possible to the side of the coal pillar left in the previous working face. In the step S1, it is configured that the diameter of the floor is 91mm, the depth of the hole is 55m, and the borehole angle can be selected within the range of 30° to 60°, it is configured such that hole depth of roof is 150m, diameter is 91 mm, and drilling angle is 90°. According to the present invention, in the method for testing the damage depths of the roofs and floors of the coal seam after the working face stoping, fixed-point grating optical cables are utilized to measure the damage depth of the floor, through which the accuracy and continuity of the measurement can be improved and the problem that the data cannot be measured caused by the damage

of a single optical fiber after the working face is pushed can be solve. The present method is simple to operate, has high stability, and can get accurate measurement, thus it is worthy of being popularized and used.



content information matched with the alarm message are obtained and displayed on the control room displayer and the robot display module respectively, so that the working target object can solve the problem quickly and improve the operation efficiency.



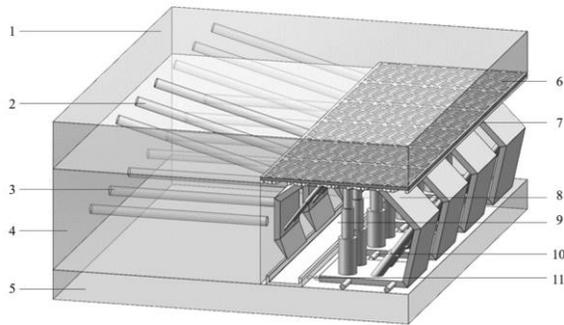
21: 2021/03803. 22: 6/3/2021. 43: 6/4/2021
 51: G21D
 71: WILD HR (Beijing) Intelligent Technology Co., LTD
 72: Fang Xiang
54: AUXILIARY CONTROL SYSTEM FOR NUCLEAR POWER PLANTS

00: -
 Embodiments of the invention disclose an auxiliary control system for nuclear power plants, belonging to the technical field of industrial and intelligent equipment. The system consists of an intelligent robot and a control room displayer connected to the intelligent robot. Further, the intelligent robot includes a head and a machine body rotatably connected with the head, wherein the head is provided with an image acquisition module; the body is provided with a tracking module and sensors, in addition to an analysis module inside, a robot display module on the surface and a mobile module on the bottom. Through the interplay between the intelligent robot and the control room displayer, the invention enables the use of intelligent robots to capture target objects for operation so as to obtain operational content images and analyse them. In the event that an alarm message is detected in the analysis results, the solution information and the protocol

21: 2021/03804. 22: 6/3/2021. 43: 6/4/2021
 51: G01N
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Xiaolou CHI, Ke YANG, Xing LV, Wenjie LIU, Zhen WEI, Zhainan ZHANG
54: A CONTROL METHOD OF A LARGE INCLINED WORKING FACE-ROOF LEAKAGE-COAL WALL SPALLING-BRACKET SLIDING BACKWARDS

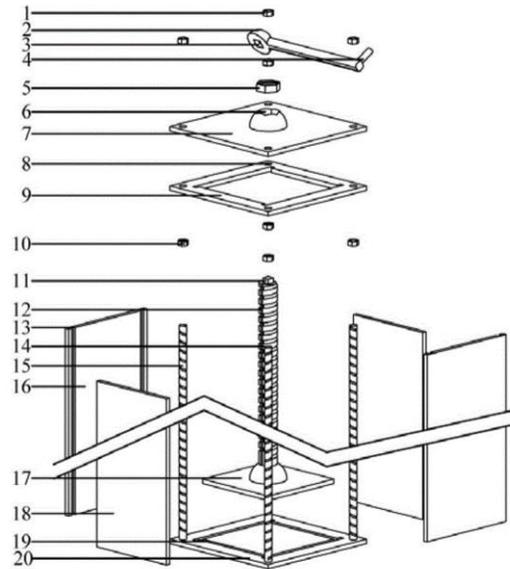
00: -
 The application relates to a mining and supporting method of a large inclined coal seam, in particular to a control method of a large inclined working face-roof leakage-coal wall spalling-bracket sliding backwards, comprising four steps of roof netting, coal wall grouting, support falling prevention and support sliding prevention:frame with 10# diamond-shaped metal woven mesh with a overall size of 5.0 m x 1.0 m and a mesh size of 40 mm x 40 mm thereon are laid on the roof, and double metal meshes are laid, with the first metal mesh and the second metal mesh overlapping alternately; drilling and grouting are carried out in the area where the roof is broken and the coal wall spalling is serious, holes of 43 mm are drilled and the grouted every 3 to 5 m (every 3 to 5 brackets), the hole is drilled along the boundary between the coal wall and the roof at an elevation angle of 15 to 20 degrees, and a cable-stayed grouting anchor rod is constructed. on

the coal wall 0.5 to 1.5 m away from the roof, drilling along the coal seam to construct the horizontal grouting anchor rod; every six brackets are used as an anchoring point, and every two hydraulic brackets are connected by two anti-falling jacks; every ten brackets are connected with the conveyor through anti-slip hinges.



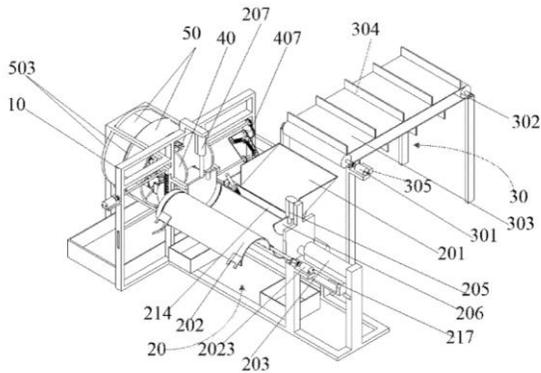
21: 2021/03805. 22: 6/3/2021. 43: 6/4/2021
 51: E02D
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Shuai LIU, Ke YANG, Tong ZHANG, Yankun MA, Xing LV, Zhen WEI, Qiang FU, Yujing FANG
54: A SPECIMEN PREPARATION MOLD FOR A FILLING BODY SIMULATING COMPRESSION AND TAMPING

00: -
 The present invention relates to an experimental specimen preparation mold, and in particular to a specimen preparation mold for a filling body simulating compression and tamping, which comprises a main board structure and a tamping structure; wherein the main board structure specifically includes a bolt nut, a limiting groove, a top seat, a connecting hole, a fixing plate, a fixing nut, a connecting groove, a connecting bolt, a main side plate, an auxiliary side plate, a fixing groove and a base; the tamping structure specifically includes a rotating handle, a pin hole, a rotating handle, a tamping nut, a pin column, a scale groove, a tamping rod and a tamping plate. The preparation mold of the present invention fit the actual underground filling and tamping process and meet the requirements of laboratory experiments, which is convenient to disassemble, and realizes controllable compression compaction.



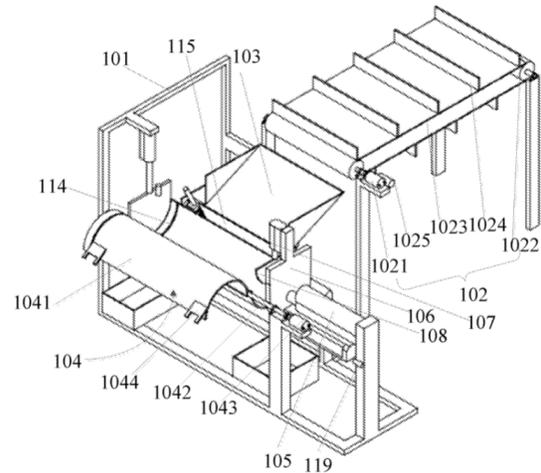
21: 2021/03830. 22: 03/06/2021. 43: 6/4/2021
 51: A23N
 71: BINZHOU UNIVERSITY
 72: LIU, Jing, LIU, Pengchuan, CAO, Jianmeng
 33: CN 31: 201911181560.0 32: 2019-11-27
54: FULLY AUTOMATIC CHINESE YAM CLEANING, PEELING AND WASHING ALL-IN-ONE MACHINE

00: -
 Provided is an automatic all-in-one machine for clearing, peeling, and cleaning yams, including: a rack; a two-end removing mechanism arranged on the rack; a conveying mechanism arranged on the rack, the conveying mechanism being arranged in coordination with a storage box of the two-end removing mechanism; a feeding mechanism arranged on the rack, an input end of the feeding mechanism being coordinated with and connected to an output end of the two-end removing mechanism; a peeling and cleaning mechanism arranged on the rack, the peeling and cleaning mechanism being arranged in coordination with and adjacent to the feeding mechanism; and a controller connected to the two-end removing mechanism, the conveying mechanism, the feeding mechanism, and the peeling and cleaning mechanism respectively. Through the technical solution of the present invention, yams with different thicknesses and lengths can be automatically removed at both ends, peeled, and cleaned, which reduces waste and makes peeled cleaning cleaner.



21: 2021/03831. 22: 03/06/2021. 43: 6/4/2021
 51: B26D
 71: BINZHOU UNIVERSITY
 72: LIU, Jing, LIU, Pengchuan, CAO, Jianmeng
 33: CN 31: 201911182786.2 32: 2019-11-27
54: TWO-END REMOVING DEVICE FOR CHINESE YAMS
 00: -

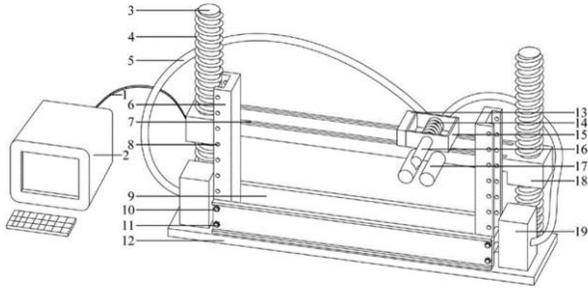
A yam two-end removing device includes: a conveying mechanism; a storage box arranged adjacent to and in coordination with the conveying mechanism; an accommodating portion arranged adjacent to and in coordination with the storage box; a first push-rod motor and a push plate connected to and coordinated with each other, arranged on one semicircular opening side of the accommodating portion; a second push-rod motor and a vertical cutter connected to and coordinated with each other, arranged on one side of the push plate toward the accommodating portion; a third push-rod motor and a baffle connected to and coordinated with each other, arranged on the other semicircular opening side of the accommodating portion, and a down-facing first photoelectric sensor being arranged in the top middle of the baffle; a fourth push-rod motor and a horizontal cutter connected to and coordinated with each other, and the accommodating portion being provided with a cutter groove; and a controller connected to the conveying mechanism, the first push-rod motor, the second push-rod motor, the third push-rod motor, the first photoelectric sensor and the fourth push-rod motor respectively. With the technical solutions of the present invention, both ends of yams with different thicknesses and lengths can be removed automatically and efficiently.



21: 2021/03880. 22: 6/7/2021. 43: 6/9/2021
 51: B29C
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: Juejing FANG, Ke YANG, Shuai LIU, Yankun MA, Xin LV
54: 3D PRINTING SIMILAR SIMULATION EXPERIMENT OPERATION METHOD
 00: -

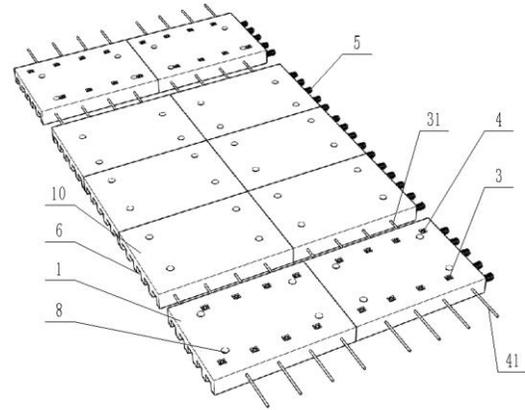
The present invention relates to a 3D printing similar simulation experiment operation method, which includes four steps of equipment debugging, instruction generation, similar printing and experiment monitoring; Cleaning a fixed base, a fixed baffle and a detachable baffle, controlling a displacement motor and a lifting motor to move to a tail end of a stroke by using a terminal processor and then return to an initial end, placing reagents of different colors in a storage cabinet, controlling injection nozzles to sequentially eject; generating a simulation 3D layer on the terminal processor, and limiting a tamping force; mounting detachable baffles at the bottommost part by using fixing bolts and fixing nuts, conveying a material and water into a material mixing box by a conveying pipe according to a ratio, rotary stirring rod starting stirring, printing by a material injection nozzle, controlling the movement in an X-axis direction by the displacement motor, start single-layer tamping after single-layer printing is finished, start next-layer printing after tamping is finished, and circulating for multiple times until the design height is achieved; monitoring the tamping force during printing in the terminal processor and being able to connect an external

monitoring device such as a strain gauge, processing various monitoring signals.



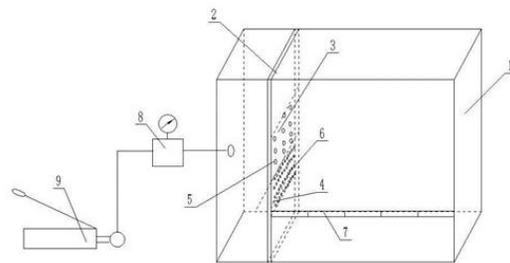
21: 2021/03882. 22: 6/7/2021. 43: 6/9/2021
 51: E01C
 71: RESEARCH INSTITUTE OF HIGHWAY
 MINISTRY OF TRANSPORT
 72: Li Sili, Tian Bo, Xie Jinde, Quan Lei, Li Lihui,
 Zhang Panpan, He Zhe
**54: PREFABRICATED CEMENT CONCRETE
 PAVEMENT STRUCTURE WITH PRESTRESS**
 00: -

The prefabricated cement concrete pavement structure with prestress comprises a first concrete plate and a concrete plate assembly which are connected in sequence, wherein the first concrete plate and the concrete plate assembly are arranged at intervals, and a plurality of prestressed channels are formed in the first concrete plate and the concrete plate assembly; First anchorages and second anchorages are respectively fixed at the top of the first concrete slab. First steel bars are arranged between the first anchorage and the second anchorage on the adjacent first concrete slab. According to the invention, the steps of prestressing the tensioned steel bars can be reduced, the construction efficiency is improved, the connection relationship between two adjacent prefabricated road slabs is improved, and the possibility of dislocation of two adjacent prefabricated road slabs is reduced.



21: 2021/03884. 22: 6/7/2021. 43: 6/9/2021
 51: E21F
 71: Anhui University of Science and Technology
 72: Guangtao WANG, Xiaorong ZHAI, Jiwen WU,
 Wenqiang LI, Yali SHI, Wenbin ZHANG
**54: A TEST DEVICE FOR INSTABILITY
 MECHANISM MODEL OF COAL PILLAR IN
 MINING AREA BOUNDARY**
 00: -

The invention aims to provide a test device for instability mechanism model of coal pillar in mining area boundary, comprising a testing box body, wherein the testing box body is connected with an inlet water pipe at its middle part in a height direction of its left side face, the inlet water pipe is provided with a manual booster pump, and the testing box body is internally provided with a vertical testing plate on whose left side is a sealed water box connected with the inlet water pipe and on whose right side is a material filling box. The invention has advantages over the prior art that the device solves the problem of such existing devices' failure to perform related special model tests with small lateral hydraulic-pressure in coal seam, has an accurate test and easy use.



21: 2021/03888. 22: 6/7/2021. 43: 6/9/2021
51: E21D

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

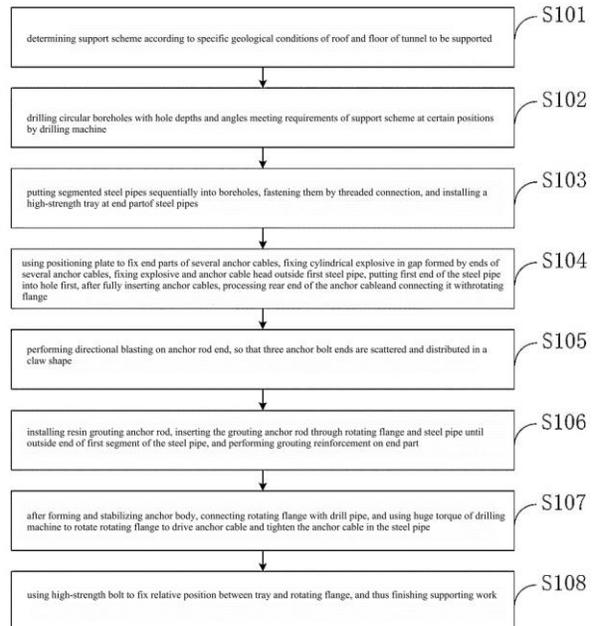
72: Qiang FU, Qinjie LIU, Ke YANG, Xiaolou CHI, Zhen WEI, Wenjie LIU, Xin LV, Xinyuan Zhao, Juejing FANG

54: BLASTING GROUTING COMBINED SUPPORT METHOD AND SYSTEM FOR END PART OF STEEL PIPE ANCHOR CABLE

00: -

The invention belongs to the technical field of tunnel support, which discloses a grouting reinforcement combined support method and system suitable for the end parts of steel pipe anchor cable after directional blasting. According to the invention, the end part of the anchor cable extending out of the grouting steel pipe in the support borehole is blasted, and the end part is anchored in cooperation with the grouting rod; after the end anchoring is completed successfully, the anchor cable is fixed through the flange plate; A plurality of anchor cables are twisted into a strand by the rotating flange plate and the drilling machine; and then the relative position between the flange plate and the tray is fixed by high-strength bolts, so that high pre-tightening force is provided for the overall support; The steel pipe body is coupled with the hole wall, therefore not only achieves the effect of resisting shear dislocation of rock stratum, but also avoids direct contact between anchor cable and lithosome, thus reducing the corrosion of anchor cable body, protecting anchor cable, maintaining anchoring effect of anchor cable and making the supported rock stratum a whole and stable entirety; The method effectively enhances the supporting effect of anchor cables, and has high supporting strength, especially solves the supporting problem of some large-section tunnels or broken surrounding rock tunnels near constructures, and further avoids the safety problem that the conventional anchor cables get pre-tightening force by stretching and may anchor cable and anchor rod may shoot out to hurt people when they fail, and has high supporting strength, solves the supporting problem of some large-section tunnels or broken surrounding rock tunnels near constructures, and avoids the safety problem that the conventional anchor cables get pre-tightening force by stretching and may anchor cable

and anchor rod may shoot out to hurt people when they fail.



21: 2021/03889. 22: 6/7/2021. 43: 6/9/2021
51: G05F

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

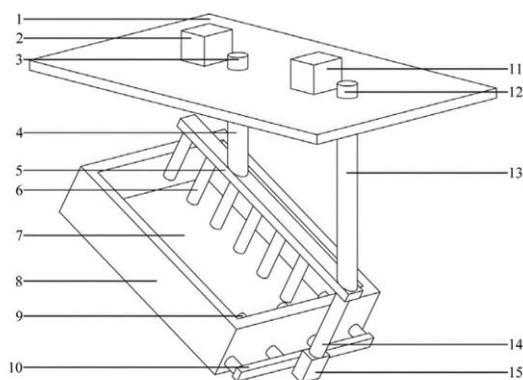
72: Juejing FANG, Ke YANG, Shuai LIU, Yankun MA, Xin LV

54: AN ABANDONED MINE BASED BIOGAS FERMENTATION-FERTILIZER PREPARATION SYSTEM AND ITS USE METHOD

00: -

The present application relates to an abandoned mine based biogas fermentation - fertilizer preparation system and its use method, wherein four steps as follows are comprised: abandoned mine reconstruction, enzyme bacteria temperature controlled fermentation, circulating pumping and stirring, and waste slag lifting and composting: Planning and designing the abandoned mine processing workshops and composting workshops are constructed, holes are drilled for laying of conveying pipes, shunt pipes, and injection pipes, and refluxing pipes are drilled down, collection pipes, refluxing pump station, lifting pipes and circulation pipes are installed; Anaerobic activated sludge is input into the feeding inlet, and then sprayed evenly into the goaf through the injection pipes, adding liquid as raw material, controlling the temperature of

the feed by maintaining the fermentation temperature, and adjusting the PH value of the fermentation broth, and make gas by fermentation; The refluxing pipes are opened to pump the fermentation liquid back to the shunt pipe again through the refluxing pump station, and spray it again through the injection pipes. When reaching the specified fermentation duration, the refluxing pipes are closed, the injection pipes are opened for reverse air extraction; The refluxing pipes are opened and the shunt pipe are closed, thereby pumping the waste liquid and waste at bottom to the discharge outlets on ground through the circulation pipes and the lifting pipes and finishing composting processing inside the composting workshops.



21: 2021/03921. 22: 6/8/2021. 43: 6/9/2021
 51: B01J
 71: Xuzhou University of Technology
 72: Chen Shanglong, Zhao Jiechang, Liu Hui, Chen Anhui, Liu Enqi

54: MODIFIED FUNGUS CHAFF SORBENT AND PREPARATION METHOD THEREOF

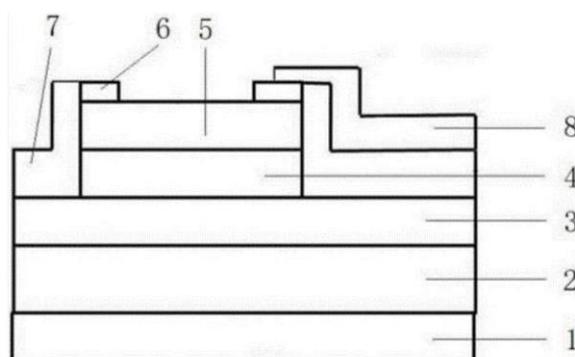
00: -
 The invention relates to a modified biosorbent and a preparation method thereof. The preparation method comprises the following steps of (1) swelling the dried and smashed Cordyceps militaris fungus chaff in sodium hydroxide aqueous solution for 4-6 h to obtain the pre-treated Cordyceps militaris fungus chaff; (2) adding the Cordyceps militaris fungus chaff after swelling pre-treatment into N,N-dimethylformamide dissolved with anhydride compounds, and let them react at 65-85C for 2-4h to obtain an intermediate product I; (3) adding the intermediate product I into ethylenediamine aqueous solution, and at 80-90C, the reaction is carried out

for 1-3h while stirring to obtain an intermediate product II; (4) evenly mixing the intermediate product II with the sodium alginate solution, adding epichlorohydrin, performing reaction at 50-60C for 30-60min, and then filtering to obtain a solid. Drying the solid to obtain the modified biosorbent. The modified biosorbent prepared by the invention has excellent adsorption effect on metal ions and dye molecules and can be reused.

21: 2021/03922. 22: 6/8/2021. 43: 6/9/2021
 51: G01D
 71: Huainan Normal University
 72: Zhang Ke, Li Lanlan, Yang Zhijun, Li Hui, Wang Shouya

54: A PHOTOELECTRIC DETECTOR

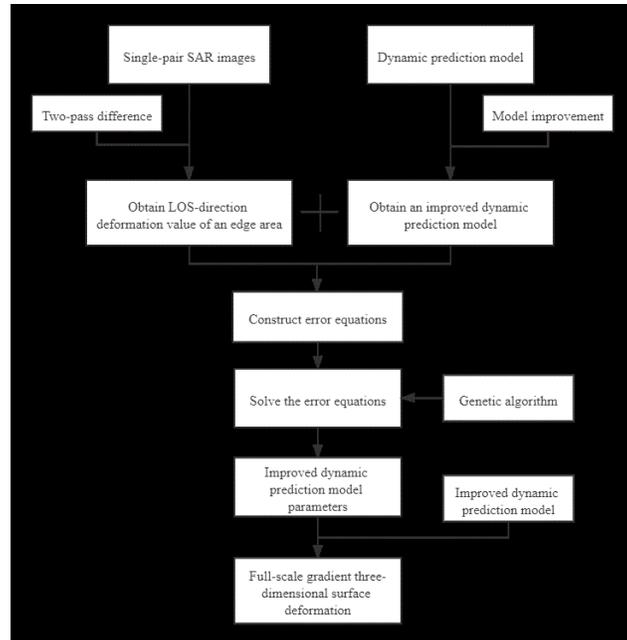
00: -
 The invention discloses a photodetector circuit, which comprises a chip U1, an op-amp U2, a chip U3, a chip U4, a resistor R1, a capacitor C1 and an infrared receiving diode D1. The invention makes the received infrared signal can accurately feedback to the chip U4 output through op-amp U2, chip U1 and chip U3, which not only improves the sensitivity of photodetector, but also reduces the manufacturing cost and manufacturing difficulty, and is suitable for popularization.



21: 2021/03923. 22: 6/8/2021. 43: 6/9/2021
 51: G06T
 71: Anhui University of Science and Technology
 72: Chuang JIANG, Lei WANG, Xuexiang YU, Zhongchen GUO

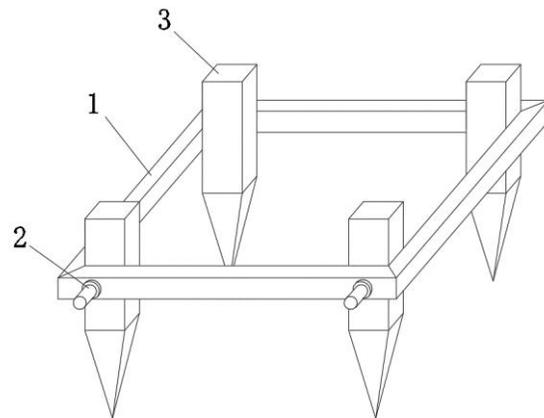
54: D-INSAR THREE-DIMENSIONAL PREDICTION METHOD FOR FULL-SCALE GRADIENT MINING SUBSIDENCE BASED ON IMPROVED DYNAMIC PREDICTION MODEL CONSTRAINT

00: -
 The present invention relates to a D-InSAR three-dimensional prediction method for full-scale gradient mining subsidence based on improved dynamic prediction model constraint. The method includes, firstly, modifying a probability integration method to solve the problem of fast edge convergence therein; secondly, based on a geometric projection relationship between D-InSAR based LOS-direction deformation of a mining area and three-dimensional surface deformation, constructing mining subsidence D-InSAR observation condition equations based on an improved dynamic prediction model, constructing a solving model of prediction parameters of the improved prediction model based on the genetic algorithm according to a genetic algorithm. Finally, a three-dimensional surface deformation value of the mining subsidence surface movement is obtained by the D-InSAR three-dimensional prediction method for full-scale gradient mining subsidence based on improved dynamic prediction model constraint. The method can rapidly, accurately and reliably estimate three-dimensional surface deformation of the full-scale gradient mining subsidence.



21: 2021/03924. 22: 6/8/2021. 43: 6/9/2021
 51: G01C; G01K
 71: Anhui University of Science and Technology
 72: Hao TAN, Xuexiang YU
54: DEVICE FOR OBTAINING DATA OF MINING SUBSIDENCE IN MINING AREA

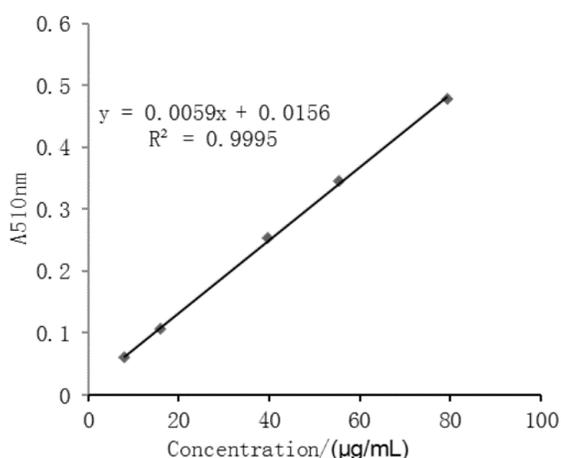
00: -
 The present invention belongs to the technical field of data collection, and in particular, relates to a device for obtaining data of mining subsidence in a mining area, which provides a device for obtaining data of mining subsidence in a mining area, comprising a mounting bracket on which a detector is mounted by means of a bolt. The subject of mining subsidence is directed to observation and research of laws of such movements and deformations and prevention of harmful effects of such movements and deformations on people's life or production.



21: 2021/03953. 22: 6/9/2021. 43: 6/11/2021
 51: A61K
 71: Xuzhou University of Technology
 72: Wu Yonghua, Gu Ran, Lu Wenjing, Liu Enqi, Zhou Jinwei, Chen Anhui, Zhang Jianping
54: A METHOD FOR PREPARING ARCTIUM LAPPAL FLAVONOIDS BY ENZYME PRETREATMENT COMBINED WITH ULTRASONIC-FLASH EXTRACTION

00: -
 The invention discloses a method for preparing Arctium lappa L Flavonoids by enzyme pretreatment combined with ultrasonic-flash extraction, which comprises the following steps: (1) Cutting Arctium lappa L into slices, soaking in aqueous solution containing sodium citrate for 10-15min, and drying to obtain pretreated Arctium lappa L samples;(2) Adding 25-35 times by weight of ethanol solution into the Arctium lappa L sample after the composite enzymolysis pretreatment for ultrasonic-assisted flash extraction, wherein the volume concentration of the ethanol solution is 60-70%, the extraction voltage is 100V, the extraction time is 40-50s, the ultrasonic power is 800W, and the extraction times

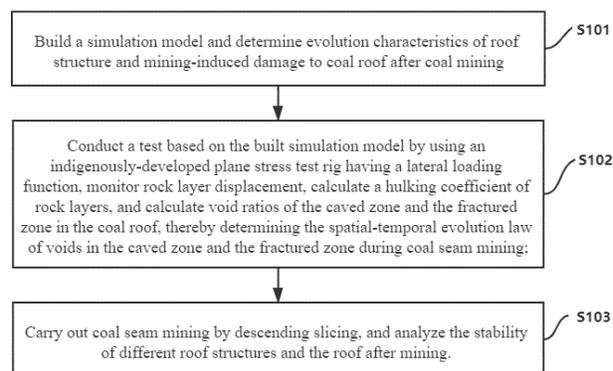
are 2-3 times to obtain Arctium lappa L Flavonoids extract;(3) Spray freeze-drying the extract of Arctium lappa L Flavonoids to obtain Arctium lappa L Flavonoids powder. According to the invention, by pretreating Arctium lappa L, the degradation of Flavonoids in Arctium lappa L in the flash extraction process is effectively reduced, and the extraction rate of Flavonoids in Arctium lappa L is improved; the Flavonoids content in Arctium lappa L Flavonoids extract is over 76.8%, which can be directly used as an effective part of medicine, and at the same time lays a foundation for further purification to obtain Flavonoids substance.



21: 2021/03954. 22: 6/9/2021. 43: 6/11/2021
 51: G01N
 71: Anhui University of Science and Technology
 72: Hu RU, Jiwen WU, Xiaorong ZHAI, Yaoshan BI, Guangtao WANG, Wei LIU, Kai HUANG
54: METHOD FOR ANALYZING SPATIAL-TEMPORAL EVOLUTION LAW OF VOIDS IN COAL SEAM MINING-INDUCED CAVED ZONE AND FRACTURED ZONE

00: -
 The invention provides a method for analyzing a spatial-temporal evolution law of voids in coal seam mining-induced caved zone and fractured zone, comprising: building a simulation model and determining evolution characteristics of roof structure and mining-induced damage to coal roof after coal mining; conducting a test based on the built simulation model by using an indigenously-developed plane stress test rig having a lateral loading function, monitoring rock layer displacement, calculating a hulking coefficient of rock layers, and

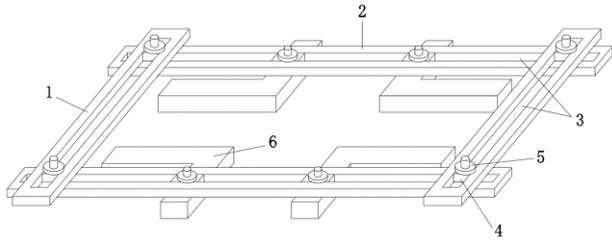
calculating void ratios of the caved zone and the fractured zone in the coal roof, thereby determining the spatial-temporal evolution law of voids in the caved zone and the fractured zone during coal seam mining. The method provided in the present invention has the advantages of convenient, visual and rapid operation, reliable accuracy, and low cost.



21: 2021/03955. 22: 6/9/2021. 43: 6/11/2021
 51: F16B
 71: Anhui University of Science and Technology
 72: Zhongchen GUO, Xuexiang YU, Chao HU, Chuang JIANG

54: EASILY-OPERABLE DETACHABLE POSITIONING DEVICE

00: -
 The invention belongs to the technical field of positioning, and provides an easily-operable detachable positioning device, wherein the detachable positioning device is provided with longitudinal mounting brackets and the longitudinal mounting brackets are connected with transverse mounting brackets by bolts. Spacing among the four positioning plates of this device can be adjusted, and also be determined from sheet width. The stability of sheet welding is ensured by vertical anchoring with bolts and rectangular sliders. The present device can satisfy the requirements for perpendicular and parallel steel sheet welding. With a steel sheet fixed among the positioning plates, welding by welders becomes more easily and convenient. Furthermore, this device can be disassembled and assembled arbitrarily so that its operation is highly convenient.



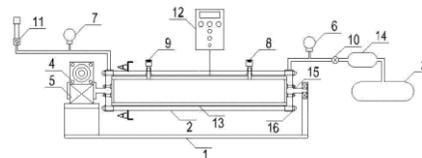
21: 2021/03957. 22: 6/9/2021. 43: 6/18/2021
 51: A41H
 71: TAIZHOU CENTRAL HOSPITAL (TAIZHOU UNIVERSITY HOSPITAL)
 72: ZHU, Jie, XU, Yinghe, HU, Fuyu, WANG, Li, LI, Zhaoyun, XU, Hanglong, LU, Zongjun, WU, Bo, SHU, Sheng, LI, Qiao, LIU, Chen
 33: CN 31: 202010520722.5 32: 2020-06-10
54: POSTURE ACQUISITION METHOD AND DIGITAL PROTECTIVE CLOTHING CUSTOMIZATION SYSTEM BASED ON METHOD

00: -
 The present invention relates to the technical field of posture recognition, and discloses a posture acquisition method, including: S1, extracting a posture feature and position feature of a user when standing still; S2, outputting an instruction to allow the user to do at least two groups of action postures; S3, capturing an action posture video; splitting the action posture video, and taking each frame of action posture video as an action node image to obtain a fixed-point posture image at an action pause and posture change images at various action linkage phases; S4, converting the fixed-point posture image and the posture change images into feature vectors with an x, y, z axis and a time axis tag, and inputting the feature vectors into a preset classification model obtaining a standard protective clothing size; and S5, determining a cutting way matched with the size based on the standard protective clothing size.

21: 2021/03959. 22: 6/9/2021. 43: 6/18/2021
 51: G01N
 71: HOHAI UNIVERSITY
 72: WU, Xun, SHI, Jianyong, LI, Yuping, LI, Yulin, SHU, Shi, ZHANG, Tao, LI, Xiulei, YANG, Yang, LIU, Chao, ZHANG, Yuchen, ZHOU, Yaji, LIU, Zhanlei
 33: CN 31: 202010557778.8 32: 2020-06-18
54: TEMPERATURE-CONTROLLED MUNICIPAL SOLID WASTE GAS PERMEABILITY

COEFFICIENT MEASUREMENT TESTING DEVICES AND METHODS

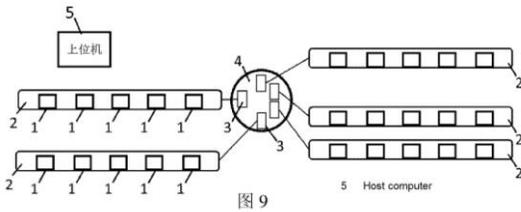
00: -
 The present invention discloses a temperature-controlled municipal solid waste gas permeability coefficient measurement testing device and method. The device includes a bracket, sample tube, gas compressor, decelerator, temperature control box, heating piece, gas heater, gas inlet pipeline, and gas outlet pipeline; the decelerator is mounted on one end of the bracket; one end of the sample tube is mounted on the bracket, and the other end is connected to an output shaft of the decelerator; the gas inlet pipeline is mounted on one end of the sample tube, and the gas outlet pipeline is mounted on the other end of the sample tube; the gas inlet pipeline is connected to the gas compressor; the gas heater is mounted on the gas inlet pipeline; the sample tube is wrapped with the heating piece; temperature sensor is fixed on the sample tube; and temperature sensor is connected to the temperature control box.



21: 2021/03970. 22: 09/06/2021. 43: 6/11/2021
 51: H04J; H04W
 71: TIANDI (CHANGZHOU) AUTOMATION CO., LTD., CCTEG CHANGZHOU RESEARCH INSTITUTE
 72: HU, Suiyan, HUO, Zhenlong, BAO, Jianjun, CHEN, Kang, WANG, Jun
 33: CN 31: 201811587729.8 32: 2018-12-25
54: WIRELESS POSITIONING MODULE, WIRELESS POSITIONING CABLE AND WIRELESS POSITIONING CABLE SYSTEM

00: -
 The present invention relates to a wireless positioning cable system that includes a plurality of wireless positioning cables, a plurality of connectors, and a host computer. The wireless positioning cables are connected by means of the connectors and cover a target area so as to achieve positioning of the target area. The host computer communicates with the wireless positioning cables, receives a wireless positioning measurement result, and

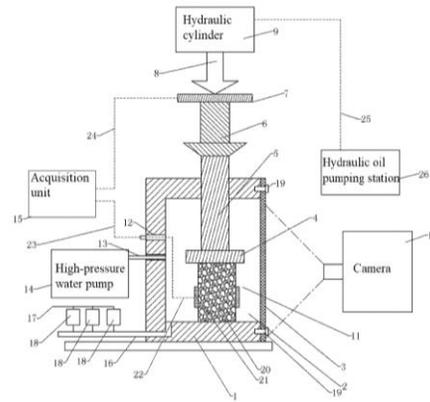
calculates terminal position coordinates or receives, analyzes, and displays a wireless positioning result. The present invention integrates compact wireless modules into the wireless positioning cables which enables very precise continuous positioning while facilitating deployment, extension, and disassembly in a target positioning area. The present invention provides a variety of transmission modes for positioning result label positioning coordinates and, if a communication network is already deployed in the target positioning area, receiving and sending data relating to the processing process. positioning can be done in a simpler and more efficient way.



21: 2021/03993. 22: 6/10/2021. 43: 6/18/2021
 51: B65G
 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: CHEN, Baobao, WANG, Lei, ZHU, Chuanqi, LI, Shaobo

54: COAL-ROCK LIQUID-SOLID COUPLING LOADING EXPERIMENT DEVICE

00: -
 Provided is a coal-rock liquid-solid coupling loading experiment device, including an experimental chamber and a hydraulic cylinder, where the inside of the experimental chamber is a hollow experimental cavity with one side open; the open side of the experimental cavity is sealed by a transparent plate; sides of the experimental chamber are provided with a water supply pipe and a drain pipe respectively, one end of the water supply pipe is communicated with the experimental cavity, and the other end thereof is communicated with a water outlet of a high-pressure water pump; one end of the drain pipe is communicated with the experimental cavity, and the other end thereof is sequentially communicated with inlets of a plurality of different constant pressure pressure-reducing valves in parallel.

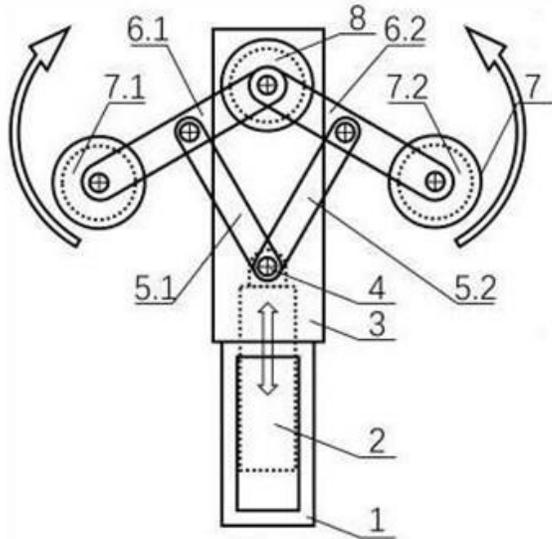


21: 2021/04101. 22: 6/15/2021. 43: 6/18/2021
 51: E04H; H02G
 71: STATE GRID SHANDONG ELECTRIC POWER COMPANY ZAOZHANG POWER SUPPLY COMPANY, STATE GRID CORPORATION OF CHINA

54: ELECTRIC STAY WIRE MANUFACTURING DEVICE AND MANUFACTURING METHOD THEREOF

00: -
 Disclosed are an electric stay wire manufacturing device and a manufacturing method thereof. The electric stay wire manufacturing device includes a power device, which is movable up and down, connected to a support structure, and internally provided with a piston ejector rod capable of reciprocating. A main shaft is fixed on the piston ejector rod, and extends from a front face and a back face of the support structure. The front face is hinged to a left support rod and a right support rod, which are hinged in the middles of a left crank arm and a right crank arm respectively. The back face is rigidly connected to a tongue plate groove. One end of the left crank arm or the right crank arm is coaxially hinged to a detachable central wheel, and the other ends of the left crank arm and the right crank arm are hinged to a left extrusion wheel and a right extrusion wheel respectively. The back face of

the support structure also has a wire clamping groove rigidly connected thereto. The wire clamping groove and the tongue plate groove are in a vertical corresponding relationship. The entire manufacturing process is standardized, the work steps are optimized, and the manufacturing efficiency is improved.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

3. DESIGNS

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 5/24/2021 -

F2021/00554 - Jacobus Cornelius Ferreira Class 21. GAME BOARD

A2021/00551 - Jacobus Cornelius Ferreira Class 14. GAME BOARD

A2021/00556 - MULTOTEC MANUFACTURING (PTY) LIMITED Class 8. SCREEN PANEL FASTENER

F2021/00560 - Aymam CC Class 25. BARGE BOARDS

A2021/00561 - Palm Footwear Manufacturers (Pty) Ltd Class 2. FOOTWEAR

A2021/00558 - DR. VRANJES FIRENZE S.P.A. Class 9. PERFUME BOTTLE

F2021/00557 - MULTOTEC MANUFACTURING (PTY) LIMITED Class 8. SCREEN PANEL FASTENER

F2021/00553 - Jacobus Cornelius Ferreira Class 14. GAME BOARD

A2021/00552 - Jacobus Cornelius Ferreira Class 21. GAME BOARD

F2021/00559 - Aymam CC Class 25. FASCIA BOARDS

F2021/00555 - JJ GOVENDER Class 13. THE NATIONAL SHIELD VERTICAL KW SOLAR CELL TOWER FARM

. - APPLIED ON 5/25/2021 -

A2021/00586 - RAUTENBACH, James Jackson, VAN ANTWERP, Cornelius Marthinus Class 8. SHOT HOLE DRILLING GUIDE

F2021/00590 - Agriplas (Pty) Ltd Class 23. WATER SPRAYER COMPONENT

F2021/00588 - PADDY's PAD 1201 CC Class 12. VEHICLE ACCESSORY

F2021/00585 - RAUTENBACH, James Jackson, VAN ANTWERP, Cornelius Marthinus Class 8. SHOT HOLE DRILLING GUIDE

A2021/00587 - PADDY's PAD 1201 CC Class 12. VEHICLE ACCESSORY

A2021/00589 - Agriplas (Pty) Ltd Class 23. WATER SPRAYER COMPONENT

. - APPLIED ON 5/27/2021 -

A2021/00595 - BROWN, Jason Class 14. STANDS FOR ELECTRONIC EQUIPMENT

A2021/00594 - ONCA OFF-ROAD PRODUCTS Class 12. LEGEND LRX BULL BAR

F2021/00593 - Shaoxing Keqiao Diwan Textile Co., Ltd. Class 06. CURTAIN

- APPLIED ON 5/28/2021 -

F2021/00613 - Darsim Tool & Die CC Class 7. BASINS

F2021/00609 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A CANOPY FRAME AND PANEL ASSEMBLY

F2021/00607 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A CANOPY FRAME AND PANEL ASSEMBLY

A2021/00606 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A VEHICLE CANOPY

A2021/00603 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A CANOPY FRAME AND PANEL ASSEMBLY

A2021/00602 - Turlen Holding SA Class 10. WATCHES

F2021/00610 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A VEHICLE CANOPY FRAME

A2021/00601 - Turlen Holding SA Class 10. WATCHES

F2021/00599 - NES CONSULT & ASSOCIATE (PTY) LTD Class 25. CONSTRUCTION SYSTEM

F2021/00611 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A FLAT PATTERN SHEET FOR A VEHICLE CANOPY FRAME

F2021/00597 - NES CONSULT & ASSOCIATES (PTY) LTD Class 25. FORMWORK SET

A2021/00612 - Darsim Tool & Die CC Class 7. BASINS

A2021/00608 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A VEHICLE CANOPY FRAME

F2021/00598 - NES CONSULT & ASSOCIATES (PTY) LTD Class 25. CONSTRUCTION SYSTEM

F2021/00600 - NES CONSULT & ASSOCIATES (PTY) LTD Class 25. CONSTRUCTION SYSTEM

F2021/00605 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A VEHICLE CANOPY

A2021/00604 - RHINO OUTDOOR AND OFFROAD (PTY) LTD Class 12. A CANOPY FRAME AND PANEL ASSEMBLY

A2021/00596 - SYMION AUTOMATION AND ENERGY (PTY) LTD Class 13. A HOUSING

- APPLIED ON 5/31/2021 -

A2021/00618 - UNILEVER GLOBAL IP LIMITED Class 9. CONTAINER WITH PUMP

A2021/00614 - HYUNDAI MOTOR COMPANY, KIA CORPORATION Class 12. AUTOMOBILE

A2021/00615 - Mark Finestone Class 12. CARRIER, CLAMP AND VERTICAL SUPPORT FOR A BICYCLE RACK

A2021/00620 - UNILEVER GLOBAL IP LIMITED Class 9. CONTAINER

A2021/00621 - UNILEVER GLOBAL IP LIMITED Class 9. CONTAINER

A2021/00616 - DS SMITH PACKAGING FRANCE SAS Class 09. TRAYS FOR PACKING FOODS

A2021/00617 - DS Smith Packaging France SAS Class 09. TRAYS FOR PACKING FOOD

A2021/00619 - UNILEVER GLOBAL IP LIMITED Class 9. CONTAINER

A2021/00624 - NLG GLOVES (PTY) LTD Class 02. PROTECTIVE GLOVES

F2021/00623 - TAMP PRODUCTS CC Class 23. URINAL MAT

A2021/00622 - TAMP PRODUCTS CC Class 23. URINAL MAT

. - APPLIED ON 6/1/2021 1 -

A2021/00625 - Assa Abloy AB Class 10. READER HOUSINGS

A2021/00627 - CUE THE BBQ LIMITED Class 23. BRIQUETTES

A2021/00626 - Assa Abloy AB Class 10. READER HOUSINGS

. - APPLIED ON 6/2/2021 1 -

A2021/00630 - Koninklijke Philips N.V. Class 7. COFFEE MAKERS

A2021/00632 - Koninklijke Philips N.V. Class 14. USER INTERFACES

F2021/00628 - Glen Clifton Kruger Class 6. TABLE FRAME

A2021/00631 - Koninklijke Philips N.V. Class 14. USER INTERFACES

A2021/00629 - Koninklijke Philips N.V. Class 7. COFFEE MAKERS

. - APPLIED ON 6/3/2021 1 -

F2021/00638 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00639 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00633 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00634 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00643 - FRONT RUNNER RACKS 2000 (PTY) LTD Class 9. RESTRAINTS FOR BOX CONTAINERS TO BE TRANSPORTED ON A ROOF RACK

A2021/00641 - WOOLWORTHS PROPRIETARY LIMITED Class 28. DETERGENT CAPSULES

F2021/00635 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00640 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00642 - FRONT RUNNER RACKS 2000 (PTY) LTD Class 9. RESTRAINTS FOR BOX CONTAINERS TO BE TRANSPORTED ON A ROOF RACK

F2021/00636 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00637 - VIGAMED PRODUCTS PRIVATE LIMITED Class 24. FEMALE CONDOM

F2021/00644 - HADLOW, William Albert Class 25. DRAINAGE GULLY SURROUND

- APPLIED ON 6/4/2021 1 -

A2021/00654 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

F2021/00657 - MOULDMAN DESIGN & DISTRIBUTION (PTY) LTD Class 08. A PIPE BEND

A2021/00647 - MOULDMAN DESIGN & DISTRIBUTION (PTY) LTD Class 08. BRACKET FOR A PIPE

F2021/00648 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. A SET CONSISTING OF A BOTTLE AND TWO LOCATING MEANS

A2021/00649 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

F2021/00650 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

A2021/00653 - MOULDMAN DESIGN & DISTRIBUTION (PTY) LTD Class 08. A PIPE BEND

F2021/00656 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. LOCATING MEANS

A2021/00658 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. LOCATING MEANS

F2021/00661 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

F2021/00662 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

A2021/00645 - BICK, Anthony Aaron, FANAROFF, Stanley Class 14. A GRID ANTENNA

F2021/00651 - MOULDMAN DESIGN & DISTRIBUTION (PTY) LTD Class 08. BRACKET FOR A PIPE

F2021/00652 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. LOCATING MEANS

A2021/00655 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. LOCATING MEANS

F2021/00659 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

A2021/00660 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

F2021/00663 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. BOTTLE

A2021/00646 - MAGNETO IP HOLDINGS (PTY) LTD Class 09. A SET CONSISTING OF A BOTTLE AND TWO LOCATING MEANS

- APPLIED ON 6/7/2021 1 -

F2021/00665 - FAMOUS BRANDS MANAGEMENT COMPANY (PTY) LTD Class 9. A BLANK FOR A BOX

A2021/00664 - NAMPAK PRODUCTS LIMITED Class 9. CONTAINERS

F2021/00666 - FAMOUS BRANDS MANAGEMENT COMPANY (PTY) LTD Class 9. A BLANK FOR A BOX

- APPLIED ON 6/8/2021 1 -

A2021/00675 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00681 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00667 - MUSCO CORPORATION Class 14. ENCLOSURE FOR CAPTURE DEVICES

A2021/00670 - WR OFF ROAD INDUSTRIES PROPRIETARY LIMITED Class 12. FUEL TANKS FOR VEHICLES

A2021/00672 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00673 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00674 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00677 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00679 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00668 - MUSCO CORPORATION Class 14. ENCLOSURE FOR CAPTURE DEVICES

A2021/00676 - Diageo Brands B.V. Class 9. BOTTLE

F2021/00669 - WR OFF ROAD INDUSTRIES PROPRIETARY LIMITED Class 12. FUEL TANKS FOR VEHICLES

A2021/00671 - Kutloano Jane Rakgahla Class 01. MN DESIGNS

A2021/00680 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00678 - Diageo Brands B.V. Class 9. BOTTLE

- APPLIED ON 6/9/2021 1 -

A2021/00682 - Capstone 1456 CC Class 9. CONTAINER

F2021/00684 - VIGAMED PRODUCTS PRIVATE LIMITED. Class 24. FEMALE CONDOM

A2021/00683 - Capstone 1456 CC Class 9. CONTAINER

- APPLIED ON 6/10/2021 -

F2021/00685 - DTRON COMMUNICATIONS (PTY) LTD Class 06. SECURE STORAGE CABINET

- APPLIED ON 6/11/2021 -

F2021/00686 - Bruce Rocco RYNHOUD, Ranakedi David MORWEDA Class 23. TOILET SEAT

A2021/00689 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE SHOULDER

A2021/00690 - DART INDUSTRIES INC. Class 7. HERB CHOPPER AND COVER FOR AN HERB CHOPPER

A2021/00693 - Diageo Brands B.V. Class 9. BOTTLE

A2021/00688 - JACK MASEROW FURNITURE MANUFACTURERS CC Class 6. SET OF FURNITURE

F2021/00687 - Field, Angelique Class 24. RO LIQUID PURIFIER

A2021/00692 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE

A2021/00691 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE WITH PUMP

- APPLIED ON 6/14/2021 -

A2021/00697 - Kvp Trading Class 32. PILLAY CREST

A2021/00698 - The Goodyear Tire & Rubber Company Class 12. TIRES

A2021/00699 - Brother Industries, Ltd. Class 9. PACKAGING

A2021/00695 - KC IP HOLDINGS, LLC Class 12. VEHICLE LIGHT

A2021/00696 - KC IP HOLDINGS, LLC Class 12. VEHICLE AUXILIARY LIGHT

F2021/00694 - GOSSAMER MACHINERY (PTY) LTD Class 15. CONTAINER FORMING MECHANISM

- APPLIED ON 6/15/2021 -

F2021/00700 - MATHOMOMAYO FAMILY TRUST Class 24. A MEDICAL SYRINGE

F2021/00702 - BINTU, Billy Abraham Class 12. AERO GENERATING AUTOMOBILE

A2021/00701 - BINTU, Billy Abraham Class 12. AERO GENERATING AUTOMOBILE

A2021/00715 - Koninklijke Philips N.V. Class 15. NOZZLES

- APPLIED ON 6/17/2021 -

A2021/00711 - PHILIP MORRIS PRODUCTS S.A. Class 27. LIGHTER AND EXTINGUISHER FOR AEROSOL GENERATORS, IN PARTICULAR FOR HEATED TOBACCO STICKS HAVING A CARBON HEAT SOURCE

A2021/00706 - Club Car, LLC Class 12. BRUSH GUARDS

A2021/00707 - Club Car, LLC Class 12. BRUSH GUARDS

F2021/00709 - BARNARDT, Chrismarie Class 04. BRUSH

A2021/00710 - PHILIP MORRIS PRODUCTS S.A. Class 27. LIGHTER AND EXTINGUISHER FOR AEROSOL GENERATORS, IN PARTICULAR FOR HEATED TOBACCO STICKS HAVING A CARBON HEAT SOURCE.

A2021/00703 - Dakalo Mondlane Class 09. HANDMADE PERFUME PACKAGING

A2021/00704 - Club Car, LLC Class 12. VEHICLE COWLS

A2021/00705 - Club Car, LLC Class 12. VEHICLE COWLS

A2021/00708 - BARNARDT, Chrismarie Class 04. BRUSH

F2021/00712 - PHILIP MORRIS PRODUCTS S.A. Class 27. LIGHTER AND EXTINGUISHER FOR AEROSOL GENERATORS, IN PARTICULAR FOR HEATED TOBACCO STICKS HAVING A CARBON HEAT SOURCE

A2021/00713 - PHILIP MORRIS PRODUCTS S.A. Class 27. LIGHTER AND EXTINGUISHER FOR AEROSOL GENERATORS, IN PARTICULAR FOR HEATED TOBACCO STICKS HAVING A CARBON HEAT SOURCE

F2021/00714 - PHILIP MORRIS PRODUCTS S.A. Class 27. LIGHTER AND EXTINGUISHER FOR AEROSOL GENERATORS, IN PARTICULAR FOR HEATED TOBACCO STICKS HAVING A CARBON HEAT SOURCE

- APPLIED ON 6/18/2021 -

F2021/00716 - Gossamer Machinery (Pty) Ltd Class 15. DAMPER ARRANGEMENT

A2021/00717 - SUMITOMO RUBBER INDUSTRIES, LTD. Class 12. TIRE FOR AN AUTOMOBILE

A2021/00718 - CERUS CORPORATION Class 24. ILLUMINATOR DEVICE

A2021/00719 - QLOCKTWO License GmbH Class 10. ASTRONOMICAL CLOCKS

F2021/00725 - African Vision and Synergy (pty)ltd, Cyril Ferreira Class 08. CATALYTIC CONVERTER GUARD

A2021/00721 - QLOCKTWO License GmbH Class 10. ASTRONOMICAL CLOCKS

A2021/00722 - QLOCKTWO License GmbH Class 10. ASTRONOMICAL CLOCKS

A2021/00723 - QLOCKTWO License GmbH Class 10. ASTRONOMICAL CLOCKS

F2021/00724 - Amanda G Hendricks, Lionel Woodman Class 02. AMANDA J VERSATILE GARMENT

A2021/00720 - QLOCKTWO License GmbH Class 10. ASTRONOMICAL CLOCKS

- APPLIED ON 6/21/2021 -

A2021/00727 - Koninklijke Philips N.V. Class 28. CAPS FOR SHAVER BLADES

A2021/00735 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

F2021/00726 - PLASTIC INNOVATIONS (PTY) LTD Class 9. A SEALING MECHANISM IN A CAP FOR A WATER BOTTLE

A2021/00728 - Koninklijke Philips N.V. Class 28. CAPS FOR SHAVER BLADES

A2021/00729 - Colgate-Palmolive Company Class 28. ORAL CARE IMPLEMENTS

A2021/00737 - Colgate-Palmolive Company Class 28. ORAL CARE IMPLEMENTS

A2021/00731 - Koninklijke Philips N.V. Class 28. CAPS FOR SHAVER BLADES

A2021/00732 - Koninklijke Philips N.V. Class 28. CAPS FOR SHAVER BLADES

A2021/00733 - Koninklijke Philips N.V. Class 28. CAPS FOR SHAVER BLADES

A2021/00734 - Koninklijke Philips N.V. Class 28. CAPS FOR SHAVER BLADES

A2021/00736 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/00730 - Koninklijke Philips N.V. Class 28. CAPS FOR SHAVER BLADES

- APPLIED ON 6/22/2021 -

A2021/00741 - APPLE INC. Class 3. CASE

A2021/00738 - PIGEON CORPORATION Class 7. NURSING BOTTLE

A2021/00739 - PIGEON CORPORATION Class 7. TEAT

A2021/00740 - APPLE INC. Class 14. EARPHONE

F2021/00747 - RICKARD AIR DIFFUSION (PTY) LTD Class 23. AIR DIFFUSER

A2021/00743 - IDE ELECTRIC S.L. Class 13. EQUIPMENT FOR DISTRIBUTION OR CONTROL OF ELECTRIC POWER

A2021/00744 - IDE ELECTRIC S.L. Class 13. EQUIPMENT FOR DISTRIBUTION OR CONTROL OF ELECTRIC POWER

A2021/00745 - IDE ELECTRIC S.L. Class 13. EQUIPMENT FOR DISTRIBUTION OR CONTROL OF ELECTRIC POWER

F2021/00746 - VAN NIEROP, Simon Class 21. ROOFTOP TENTS FOR VEHICLES

A2021/00742 - IDE ELECTRIC S.L. Class 13. EQUIPMENT FOR DISTRIBUTION OR CONTROL OF ELECTRIC POWER

- APPLIED ON 6/23/2021 -

A2021/00748 - BLATT IV APFEL (PTY) LTD. Class 6. CHAIRS

- APPLIED ON 6/24/2021 -

F2021/00749 - BARTELS, Linda Class 07. CLOTHES HANGER STABILIZERS

F2021/00751 - STELLENBOSCH UNIVERSITY Class 10. APPARATUS FOR MEASURING FOULING PARAMETERS IN A FLUID

F2021/00750 - STELLENBOSCH UNIVERSITY Class 10. APPARATUS FOR MEASURING FOULING PARAMETERS IN A FLUID

- APPLIED ON 6/25/2021 -

F2021/00752 - BIOSHOT (PTY) LTD Class 22. TREE TRUNK INJECTION DEVICE

F2021/00755 - GED 263 (VAN 180) VAALDAM SETTLEMENT (PTY) LTD Class 06. VOTING BOOTH

F2021/00754 - ARJO IP HOLDING AB Class 24. CONNECTOR FOR A MEDICAL DEVICE

A2021/00753 - ARJO IP HOLDING AB Class 24. CONNECTOR FOR A MEDICAL DEVICE

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that: **CQMS PTY LTD of 11/58 Metroplex Avenue, MURARRIE, Queensland 4175 Australia** has made application for the restoration of the design registered to the said: **CQMS PTY LTD** for the Design: **AN EXCAVATOR WEAR MEMBER** application number: **F2013/01469** date: **12/08/2013** which become void on **12/08/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

Notice is hereby given that: **CQMS PTY LTD of 11/58 Metroplex Avenue, MURARRIE, Queensland 4175 Australia** has made application for the restoration of the design registered to the said: **CQMS PTY LTD** for the Design: **AN EXCAVATOR WEAR MEMBER** application number: **F2013/01470** date: **12/08/2013** which become void on **12/08/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

Notice is hereby given that: **THE SCOTT FETZER COMPANY of 28800 Clemens Road, Westlake, Ohio 44145, USA.** has made application for the restoration of the design registered to the said: **THE SCOTT FETZER COMPANY** for the Design: **BRUSHES** application number: **A2010/01510** date: **17/11/2010** which become void on **22/07/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

Notice is hereby given that: **THE SCOTT FETZER COMPANY of 28800 Clemens Road, Westlake, Ohio 44145, USA** has made application for the restoration of the design registered to the said: **THE SCOTT FETZER COMPANY** for the Design: **BRUSHES** Application number: **A2010/01540** date: **17/11/2010** which become void on **22/07/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

No records available

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. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgement. **(23)** release date (if applicable). **(DR)** 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 (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

21: A2015/00337 22: 2015-03-04 23:
43: 2021-05-21
52: Class 09 24: Part A
71: MURRAY DAVIDSON

54: GARBAGE CONTAINER

57: Protection is claimed for the features of shape and/or configuration and/or ornamentation of a garbage container substantially as shown in the accompanying representations, with the lighter weighted lines representing contour.

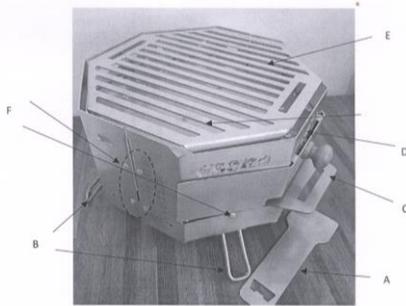


21: A2019/00587 22: 2019-05-02 23:
43: 2021-05-12
52: Class 07 24: Part A
71: PIETER JACOBUS ANDRIIAN
RAUBENHEIMER

54: A GRILL

57: The novelty of the design resides in the shape or configuration of a grill substantially as shown in the

accompanying representation. The features marked A (a spatula), B (support members), C (a plate), D (markings), E (a grid) and F (fasteners) are optional and do not form part of the design.



21: A2019/00766 22: 2019-06-06 23:
43: 2018-12-07
52: Class 15 24: Part A
71: SSAB Technology AB
33: EM(SE) 31: 005848579-0001 32: 2018-12-07

54: EXCAVATOR BUCKETS

57: The design is for an excavator bucket comprising a curved base, rear and top walls, and a pair of opposed sidewalls, defining between them a containment zone. The sidewalls each include a plurality of plates, a central plate being bean-shaped, a front plate being elongate, having a first end in a lower sidewall region and a second end curving from an upper sidewall region to extend to the top wall. Each side of the containment zone defines a recessed zone which includes a plurality of rectangular wear plates attached by bolts. The base defines a central ridged zone, with each opposing side including the plurality of wear plates. A front lip of the containment zone includes spaced-apart elongate teeth.

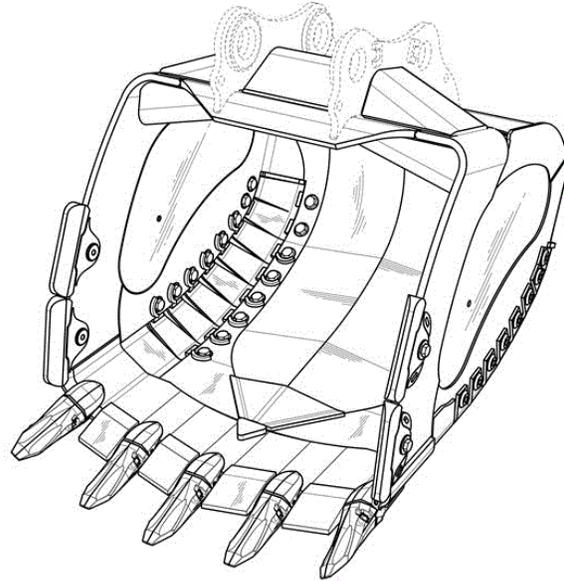


Figure 1

Three-dimensional view

21: A2019/00767 22: 2019-06-06 23:
43: 2018-12-07
52: Class 15 24: Part A
71: SSAB Technology AB
33: EM(SE) 31: 005848579-0003 32: 2018-12-07

54: EXCAVATOR BUCKETS

57: The design is for a base, which partially defines a containment zone of an excavator bucket, which comprises a pair of curved elongate panels with inclined front ends. The panels are concavely curved in a top of the containment zone and each arranged at an outward, downward incline. Rear ends of the panels curve upwardly.

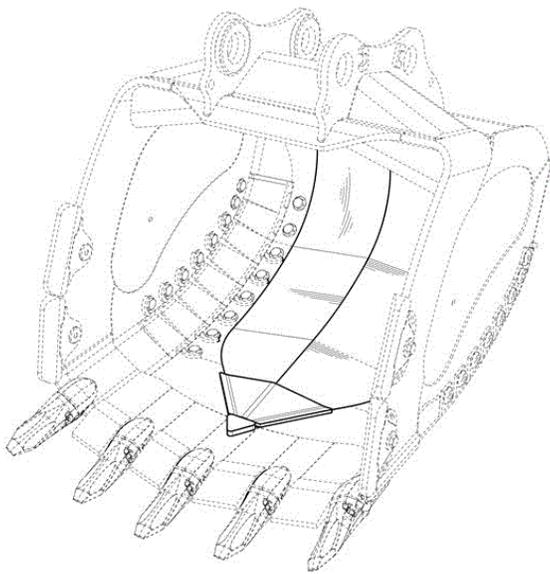


Figure 1

Three-dimensional view

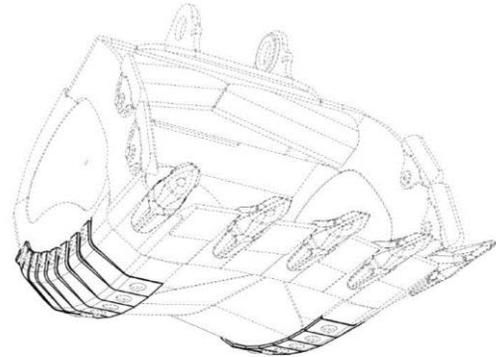


Figure 1

Three-dimensional view

21: A2019/00768 22: 2019-06-06 23:
43: 2018-12-07
52: Class 15 24: Part A
71: SSAB Technology AB
33: EM(SE) 31: 005848579-0006 32: 2018-12-07
54: EXCAVATOR BUCKETS
57: The design is for wear plates for sides of a base of an excavator bucket. Each wear plate comprises a central inclined portion with opposite rectangular ends. An inner end abuts a surface of a base of the bucket and an outer end abuts a side wall of the bucket. Sides of the central portion taper inwardly slightly towards the outer end of the plate. A plurality of the wear plates are provided along an edge of the base in an arcuate arrangement.

21: A2019/00769 22: 2019-06-06 23:
43: 2018-12-07
52: Class 15 24: Part A
71: SSAB Technology AB
33: EM(SE) 31: 005848579-0007 32: 2018-12-07
54: EXCAVATOR BUCKETS
57: The design is for an excavator bucket and specifically for plate members arranged around a top wall of the bucket. A raised member is provided above the top wall. A middle section of the raised member is rectangular and each end section is triangular, with a top wall inclined outwardly downwardly from the middle section towards its bottom wall. A front member is isosceles trapezium-shaped and projects forwardly from the top wall and curves slightly downwardly. A pair of triangular-shaped members are attached below the top wall such that a lower wall of each member is inclined inwardly upwardly from each side wall to meet at a central axis.

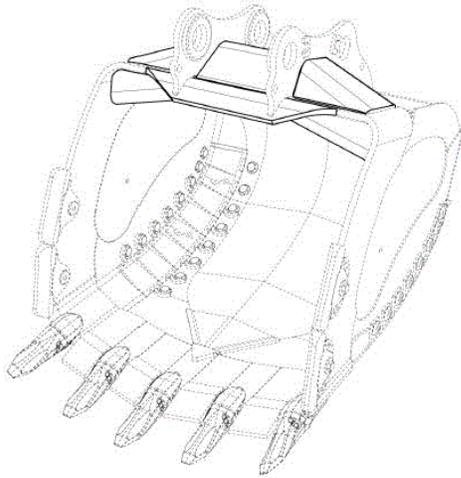
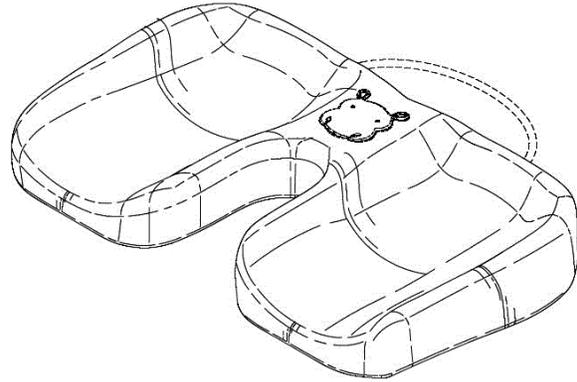
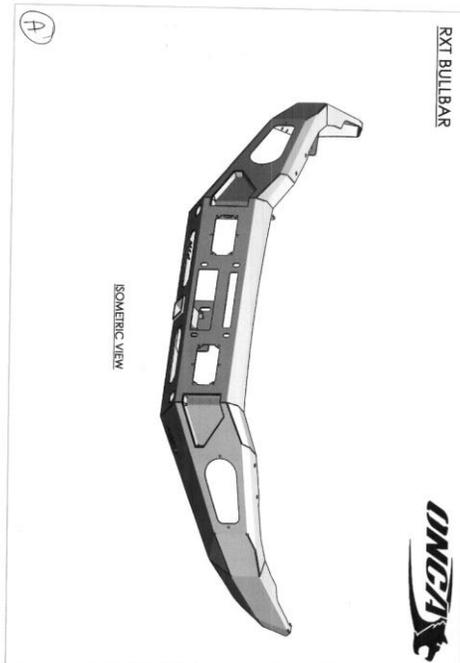


Figure 1
Three-dimensional view

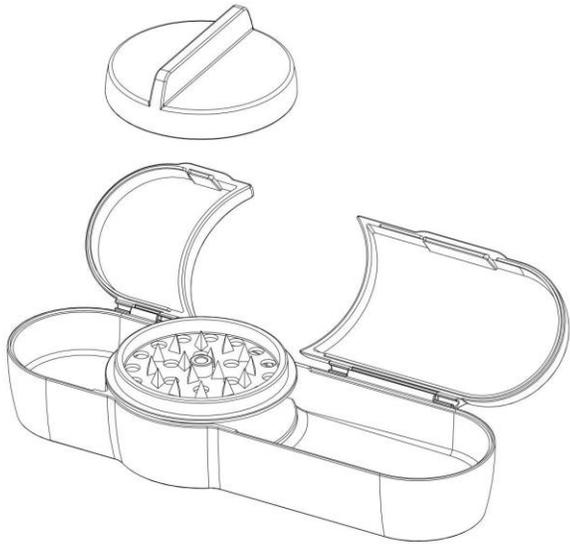
21: A2019/00876 22: 2019-06-27 23:
43: 2019-06-27
52: Class 6 24: Part A
71: Huduhealth (Pty) Ltd.
54: KNEELER
57: The design is applied to a kneeler substantially as illustrated in the accompanying representations.



21: A2019/00778 22: 2019-06-07 23:
43: 2021-05-21
52: Class 12 24: Part A
71: ONCA OFF-ROAD PRODUCTS
54: VEHICLE BUMPER
57: The design relates to a vehicle bumper, the features of the design are those of shape, configuration, and/or ornamentation.



21: A2019/01079 22: 2019-08-07 23:
43: 2021-05-28
52: Class 27 24: Part A
71: DE WET, RAYNO ANDRE
54: A SMOKER'S ACCESSORY
57: The design relates to a smoker's accessory. Features of the design for which protection is claimed are those of the shape and/or configuration of a smoker's accessory, substantially as shown in the accompanying representations. The protuberances, apertures, rim and coupling formation of a first grinding disc, the gripping formation of a second grinding disc and the features of the hinge mechanism do not form a part of the design and are disclaimed. Contour lines are provided to indicate contours but do not form part of the design and are also disclaimed.



21: A2019/01097 22: 2019-08-13 23:
43: 2019-02-14
52: Class 27 24: Part A
71: Glas, Inc.
33: US 31: 29/680,303 32: 2019-02-14
54: CARTRIDGES FOR VAPORIZATION DEVICES
57: The design is for a cartridge for a vaporization device, the cartridge comprising a rectangular body and a curved overcap positioned at a top of the rectangular body. The overcap comprises a front surface, a rear surface and a peripheral side wall extending between the front and rear surfaces. A front end of each of the front and rear surfaces curve inwardly to meet the peripheral side wall. The rectangular body has a front surface, a rear surface, a peripheral side wall and curved edges having an obround cross-sectional profile.

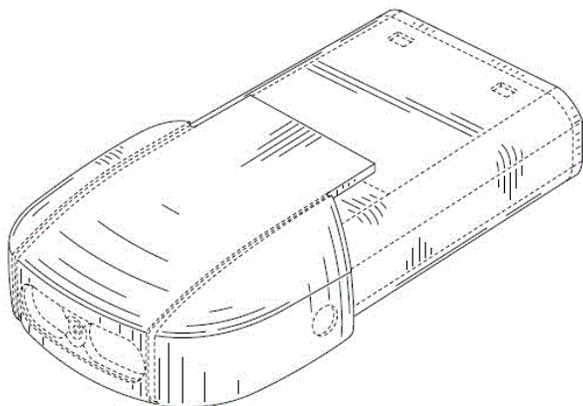


Figure 1
Three-dimensional view

21: A2019/01098 22: 2019-08-13 23:
43: 2019-02-14
52: Class 27 24: Part A
71: Glas, Inc.
33: US 31: 29/680,303 32: 2019-02-14
54: CARTRIDGES FOR VAPORIZATION DEVICES
57: The design is for a cartridge for a vaporization device comprising a rectangular body having a front surface, a rear surface, peripheral side wall and curved edges having an obround cross-sectional profile.

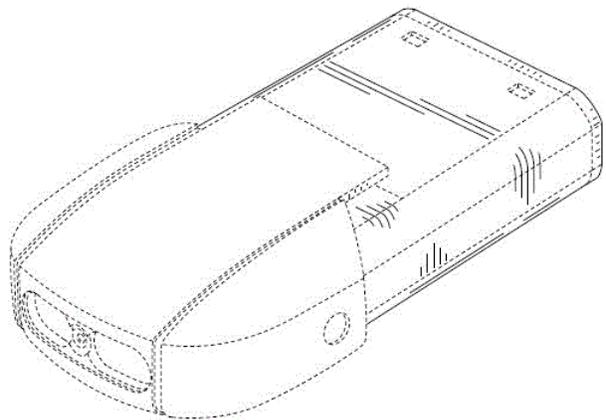
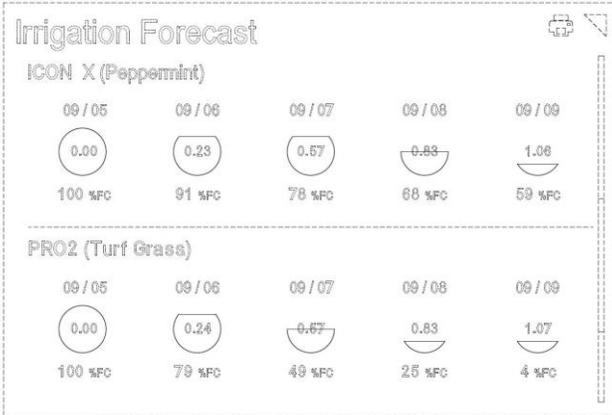


Figure 1
Three-dimensional view

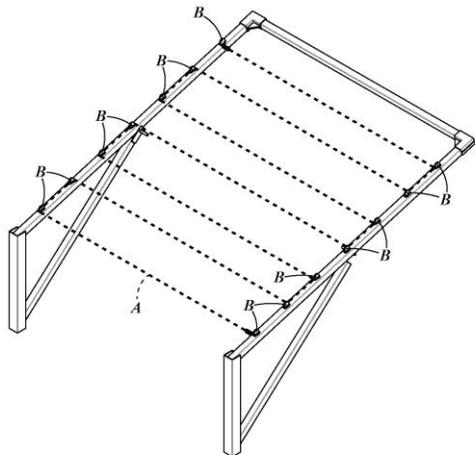
21: A2019/01239 22: 2019-08-28 23:
43: 2020-06-02
52: Class 14 24: Part A
71: Valmont Industries, Inc.
33: US 31: 29/683,053 32: 2019-03-11
54: DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE
57: The design is for a display screen or portion thereof with graphical user interface, in which quantities are represented by circles from which upper segments are omitted or only lower segments are shown.



21: A2019/01423 22: 2019-09-26 23:
 43: 2021-03-12
 52: Class 07 24: Part A
 71: ADRIAAN NEL

54: A DRYING RACK

57: The design relates to a DRYING RACK. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of the DRYING RACK including the line supports B substantially as illustrated in the accompanying representations. The pattern and/or shape and/or configuration of the line A, shown in broken lines, is not claimed.



REAR UPPER PERSPECTIVE VIEW SHOWING WASHING LINE A IN DOTTED LINES

21: A2019/01424 22: 2019-09-26 23:
 43: 2021-04-08
 52: Class 12. 24: Part A
 71: MAN TRUCK & BUS SE
 33: EM 31: 006622254-0001 32: 2019-07-11
54: Bus

57: The design relates to a bus. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT VIEW

21: A2019/01777 22: 2019-12-11 23:
 43: 2019-06-12
 52: Class 13 24: Part A
 71: Techtronic Cordless GP
 33: US 31: 29/694,584 32: 2019-06-12

54: POWER TOOLS

57: The design is for a power tool comprising a pair of comb-like sections at opposing sides of the interface. Each section has a flat upper surface with forwardly protruding rectangular teeth, serving as a keying feature.

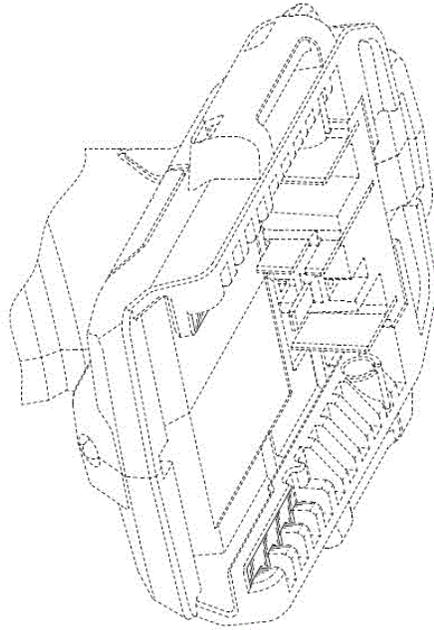


Figure 1
Three-dimensional view

21: A2019/01778 22: 2019-12-11 23:
43: 2019-06-12
52: Class 13 24: Part A
71: Techtronic Cordless GP
33: US 31: 29/694,584 32: 2019-06-12

54: POWER TOOLS

57: The design is for a power tool comprising a pair of rectangular sections at opposing ends of the interface. Each section has a flat upper surface and a perpendicular side wall.

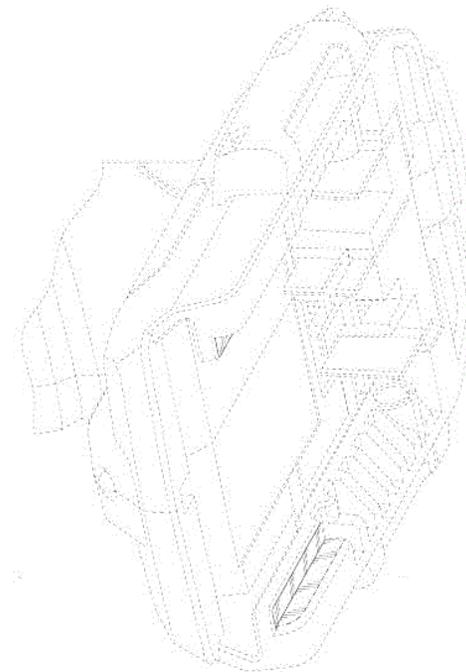


Figure 1
Three-dimensional view

21: A2020/00005 22: 2020-01-06 23:
43: 2019-07-08
52: Class 4 24: Part A
71: GSK Consumer Healthcare S.A.
33: EM(GB) 31: 006615639 32: 2019-07-08

54: TOOTHBRUSH HEADS

57: The design is for a toothbrush head. The toothbrush head comprises a stem which tapers inwardly towards an upper end thereof. The upper end of the stem has a laterally oriented circular cylindrical protuberance from which elongate bristles project radially, some of which project beyond the protuberance. Slots are defined in a top of the protuberance, in the stem below the bristles, in a rear surface of the stem, in line with the bristles, and at and adjacent a base of the stem.

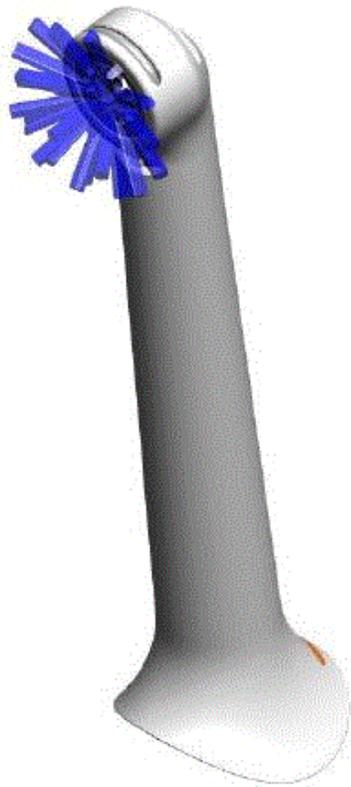
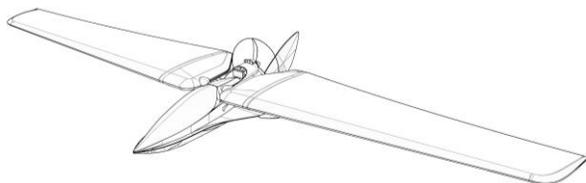


Figure 1

Three-dimensional view

21: A2020/00083 22: 2020-01-28 23:
43: 2021-06-09
52: Class 12 24: Part A
71: Bray Brothers Technologies (Pty) Ltd
54: AIRCRAFT
57: The design relates to a Aircraft. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



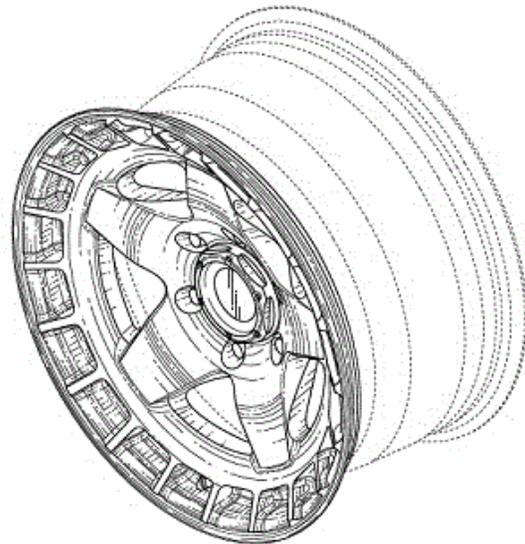
21: A2020/00147 22: 2020-02-07 23:

43: 2021-04-15
52: Class 12. 24: Part A
71: TOYOTA JIDOSHA KABUSHIKI KAISHA
54: Automobile
57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT LEFT PERSPECTIVE VIEW

21: A2020/00169 22: 2020-02-12 23:
43: 2021-04-26
52: Class 12. 24: Part A
71: WHEEL PROS, LLC
33: US 31: 29/723,135 32: 2020-02-04
54: Wheel
57: The design relates to a wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/00197 22: 2020-02-14 23:
43: 2019-08-16
52: Class 4 24: Part A
71: Colgate-Palmolive Company

33: US 31: 29/702,083 32: 2019-08-16

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement in the form of a toothbrush. The toothbrush comprises an elongate handle having a brown wooden appearance. The handle has a rounded base, a mid-section with a gentle concavity, and an elongate neck. The toothbrush has an oval head projecting upwardly from the neck. In side view, a front surface of the mid-section has a gentle undulation. A front surface of the handle includes a darker brown marking of bamboo-like branches and leaves. A front of the head includes an oval arrangement of black or dark coloured bristles surrounding an arrangement of green bristles.



Figure 1

Three-dimensional view

forming an oval perimeter and surrounding an inner arrangement of green bristles.



Figure 1

Three-dimensional view

21: A2020/00333 22: 2020-03-11 23:

43: 2020-03-11

52: Class 12 24: Part A

71: SUPERCART SOUTH AFRICA (PTY) LTD

54: TROLLEY CHASSIS

57: The design is applied to a trolley chassis for a steel trolley, the chassis defining an integrated handle. The features of the design for which protection is claimed include the shape and/or configuration of a trolley chassis, substantially as illustrated in the accompanying representations. The dotted portions are disclaimed and do not form any part of the claimed design.

21: A2020/00198 22: 2020-02-14 23:

43: 2019-08-16

52: Class 4 24: Part A

71: Colgate-Palmolive Company

33: US 31: 29/702,083 32: 2019-08-16

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement and specifically for an arrangement of bristles for a toothbrush. The bristles are arranged in an oval configuration with black or dark coloured bristles



Figure 1

Three-dimensional view

21: A2020/00403 22: 2020-03-24 23:
43: 2019-11-12
52: Class 4 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/712,876 32: 2019-11-12

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement in the form of a toothbrush, comprising an elongate handle extending from a rounded base to a rearwardly inclined elongate neck, there being a forwardly protruding formation between the two. A front of the handle includes an oval gripping surface comprising an arrangement of nested concavely curved elements. A rear of the handle includes a longer oval gripping surface, with a top half including an arrangement of concavely curved nested elements and a lower portion including a single concavely curved element. An oval head projects upwardly from the neck, with a top half of the head curving forwardly. A front of the head includes clusters of bristles, grouped in first and second arrangements, with thicker individual bristles flanking the first arrangement. The clusters are arranged by bristle length, providing a concave shaped profile for each arrangement when viewed from the side.

21: A2020/00404 22: 2020-03-24 23:
43: 2019-11-12
52: Class 4 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/712,876 32: 2019-11-12

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement in the form of a toothbrush, comprising an elongate handle extending from a rounded base to a rearwardly inclined elongate neck. A junction of the handle and neck forms a forwardly protruding formation. A front of the handle includes an oval gripping surface comprising an arrangement of nested concavely curved elements. A rear of the handle includes a longer oval gripping surface, with a top half including an arrangement of concavely curved nested elements and a lower portion including a single concavely curved element.

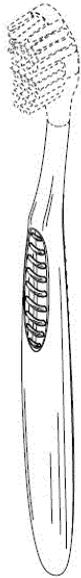


Figure 1

Three-dimensional view

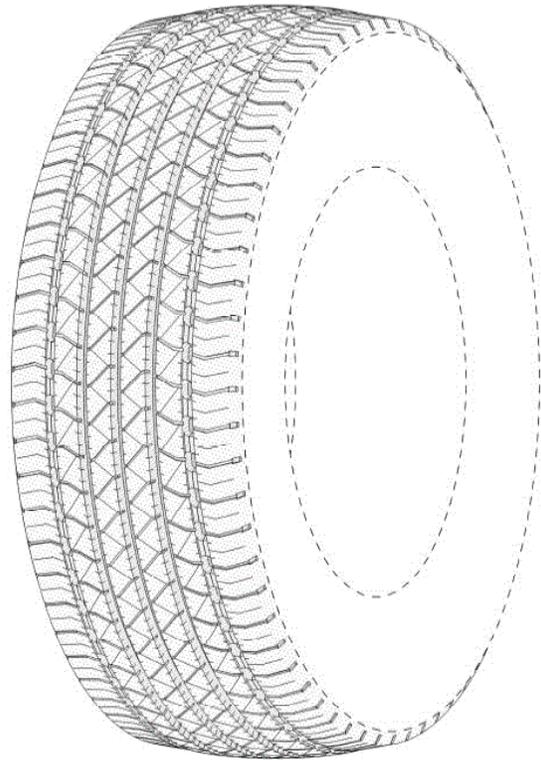


Figure 1

Three-dimensional view

21: A2020/00472 22: 2020-05-04 23:
43: 2019-10-16
52: Class 12 24: Part A
71: The Goodyear Tire & Rubber Company
33: US 31: 29/709,600 32: 2019-10-16

54: TIRES

57: A tread for a tire having five rows of tread elements, a center row, a pair of intermediate rows, and a pair of shoulder rows; each shoulder row being spaced apart from an intermediate row by a circumferentially continuous narrow shoulder groove and each intermediate row being spaced from the center row by a circumferentially continuous wide intermediate groove; the center row is located at the equatorial centerplane of the tread and bifurcated by a circumferentially continuous narrow groove on the centerplane, the center row having circumferential arrays of wider spaced apart inclined sipe segments along opposite sides, the arrays angled in opposite direction from a respective intermediate groove, inward ends of the sipe segments each being connected to the centerplane groove by a narrow sipe segment; each intermediate row has a circumferential array of spaced apart inclined grooves extending from an intermediate groove to a respective shoulder groove; each shoulder row has a circumferential array of spaced apart inclined blind grooves extending from shoulder row toward a respective outer edge of the tread.

21: A2020/00498 22: 2020-05-04 23:
43: 2021-04-15
52: Class 21. 24: Part A
71: TEQBALL HOLDING SARL
33: IB 31: WIPO84853 32: 2019-10-07

54: Game Table

57: The design relates to a game table. The features of the design are those of shape and/or configuration and/or ornamentation.

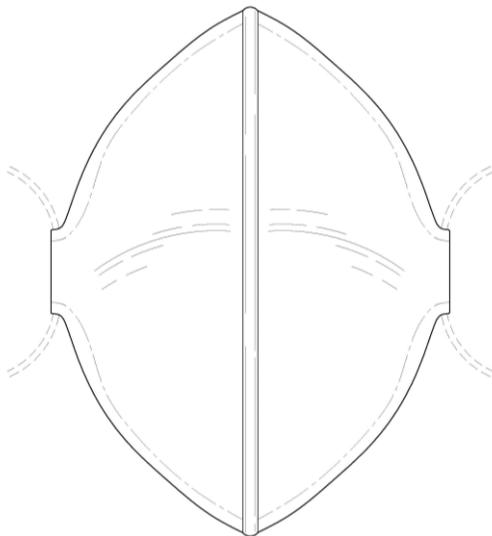


PERSPECTIVE VIEW

21: A2020/00526 22: 2020-05-05 23:
 43: 2020-04-29
 52: Class 29 24: Part A
 71: Palm Footwear Manufacturers (Pty) Ltd

54: MASKS

57: This design is for a face mask having a pair of major lobes connected along a central axis, wherein each lobe is substantially eyeshaped with a laterally projecting portion. Each lobe may comprise a pair of layers formed or terminating in a loop at the laterally projecting square portion such that a suitable strap is locatable through the loop. In this way, in use, the straps are attachable to an ear of a user thereby facilitating attachment of the mask to a face of the user thereby covering the mouth and nose of the user.

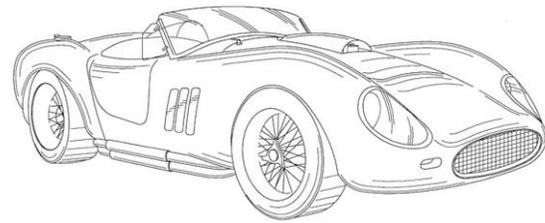


Front view

21: A2020/00680 22: 2020-05-29 23:
 43: 2021-06-21
 52: Class 12 24: Part A
 71: Taormina Imports
 33: US 31: 29/733,400 32: 2020-05-01

54: AUTOMOBILE

57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern or ornament applied to the automobile shown in the representations.



21: A2020/00686 22: 2020-05-29 23:
 43: 2021-04-15
 52: Class 12. 24: Part A
 71: DAIHATSU MOTOR CO., LTD.
 33: JP 31: 2019-028965 32: 2019-12-26

54: Automobile

57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/00829 22: 2020-06-15 23:
 43: 2019-12-17
 52: Class 12 24: Part A
 71: The Goodyear Tire & Rubber Company
 33: US 31: 29/717,339 32: 2019-12-17

54: TIRES

57: The design is for a tire comprising a first and a second circumferential shoulder rib and four circumferential intermediate ribs therebetween. Circumferential jagged grooves separate the intermediate ribs from one another and from the shoulder ribs. The shoulder ribs comprise spaced diagonal sipes defining blocks. A first and fourth intermediate rib comprises spaced diagonal sipes defining blocks and a circumferential jagged groove. A second and third intermediate rib comprises spaced zigzag sipes defining blocks.



Figure 1

Three-dimensional view

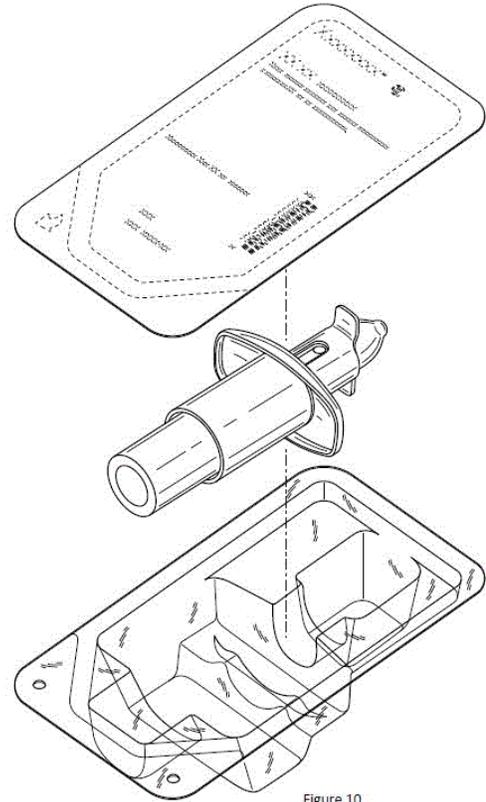


Figure 10

Exploded view

21: A2020/00835 22: 2020-06-17 23:
43: 2019-12-18
52: Class 9 24: Part A
71: Janssen Pharmaceutica NV
33: US 31: 29/717,663 32: 2019-12-18

54: PACKAGING

57: The design is for packaging containing a drug delivery device. The packaging comprises an irregularly shaped container having a plurality of recesses and inward protrusions accommodating the drug delivery device. A rectangular flange is provided around a periphery of the container. A correspondingly shaped removable lid is provided. The drug delivery device comprises a circular cylindrical body having a circular cylindrical sleeve mounted on a middle portion thereof. The sleeve has a pair of outwardly projecting components. A head of the drug delivery device includes a dispensing tip and a pair of flanges.

21: A2020/00836 22: 2020-06-17 23:
43: 2019-12-18
52: Class 9 24: Part A
71: Janssen Pharmaceutica NV
33: US 31: 29/717,663 32: 2019-12-18

54: PACKAGING

57: The design is for packaging for a drug delivery device. The packaging comprises an irregularly shaped container having a plurality of recesses and inward protrusions for accommodating a drug delivery device. A rectangular flange is provided around a periphery of the container. A correspondingly shaped removable lid is provided.

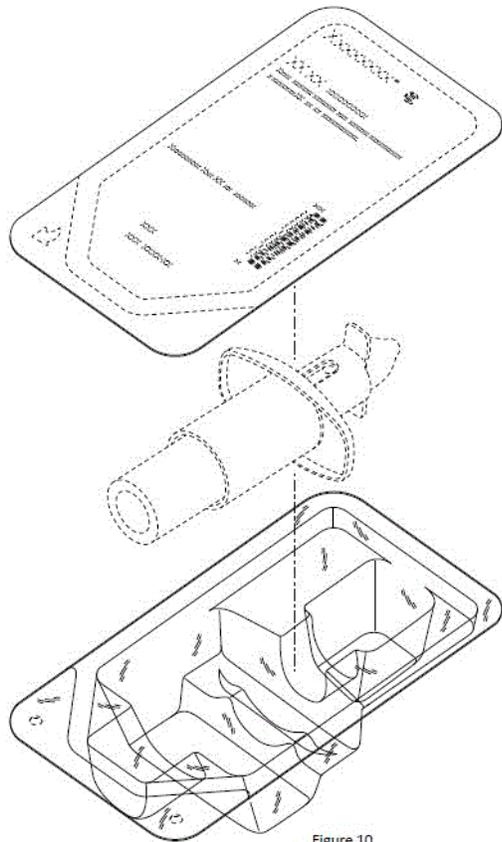
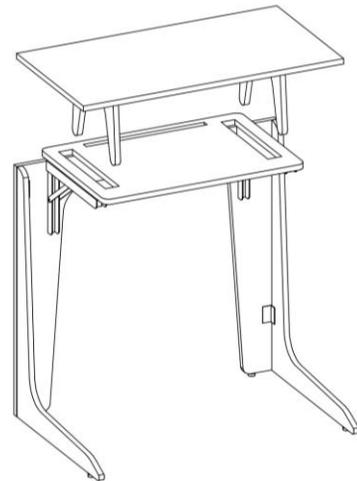


Figure 10
Exploded view



Three-dimensional front view in use showing the lap desk extracted from the tabletop support.

21: A2020/00846 22: 2020-06-18 23:
43: 2021-04-26
52: Class 06 24: Part A
71: GEEL, Werner

54: DESKS

57: The design is for a collapsible desk. The desk is defined by a tabletop support, hinged to an inverted U-shaped back support and two substantially L-shaped legs hinged to the sides of the U-shape back support. The L-shaped legs are collapsible and can fold inwards towards each other. Furthermore, the tabletop support is collapsible to fold inwards towards the inverted U-shape back support. The tabletop support includes two vertical slots positioned on the opposing sides of the tabletop support. The desk further includes a collapsible lap desk, of which the supporting legs can be inserted through the two vertical slots of the tabletop support to provide a tabletop. The supporting legs are capable of being folded inwards, attaching the collapsible lap desk to the tabletop support. In a collapsed condition the desk is folded flat and can be carried using a horizontal slot on the tabletop support.

21: A2020/00886 22: 2020-06-24 23:
43: 2021-04-26
52: Class 12 24: Part A
71: HYUNDAI MOTOR COMPANY, KIA MOTORS CORPORATION
33: KR 31: 30-2020-0004102 32: 2020-01-30
54: AUTOMOBILE
57: The representation shows a perspective view of the automobile showing the overall appearance thereof.



21: A2020/00889 22: 2020-06-24 23:
43: 2021-04-26
52: Class 21 24: Part A
71: SOUTH AFRICAN RUGBY LEGENDS ASSOCIATION NPC
54: MULTI-PURPOSE TRAILERS
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a multi-purpose trailer substantially as illustrated in the accompanying representations, wherein essential features of the design reside in the shape and/or configuration of a rear region of the trailer, which allows the trailer to function as a scrummaging

machine, and wherein the other components and elements of the trailer as illustrated in the representations are non-essential features of the design.

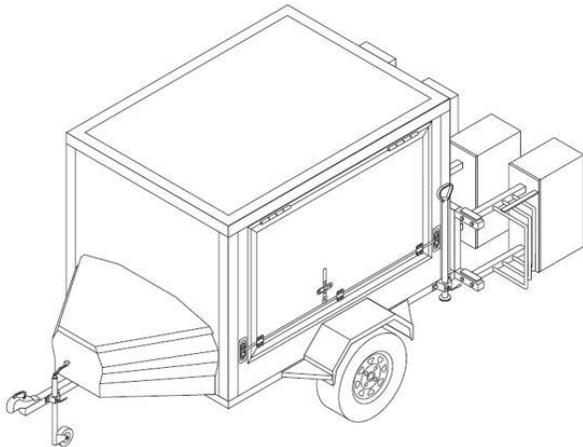


Figure 1
Perspective view

21: A2020/01002 22: 2020-07-17 23:
43: 2021-04-15
52: Class 09 24: Part A
71: CORRUSEAL GROUP (PTY) LTD

54: CONTAINERS

57: The features of the design for which protection is claimed reside primarily in the set of four holes arranged in a rectangular formation in a top wall of the container as shown in the accompanying representations, the shape and/or configuration and/or pattern and/or ornamentation of the holes in the top wall being essential features of the design, while the other parts of the design are non-essential features.



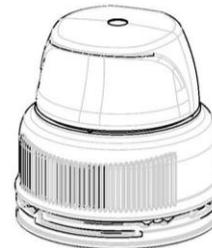
Figure 1

Three-dimensional view of top wall and front of erected container

21: A2020/01027 22: 2020-07-27 23:
43: 2021-05-21
52: Class 09 24: Part A
71: Polyoak Packaging (Pty) Ltd

54: CAP

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

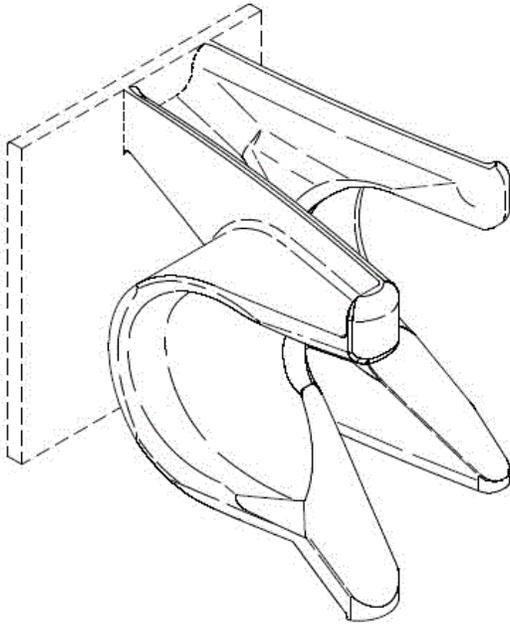


21: A2020/01035 22: 2020-07-29 23:
43: 2020-07-29
52: Class 31 24: Part A
71: FREDDY HIRSCH GROUP PROPRIETARY LIMITED

54: Sausage Cutters

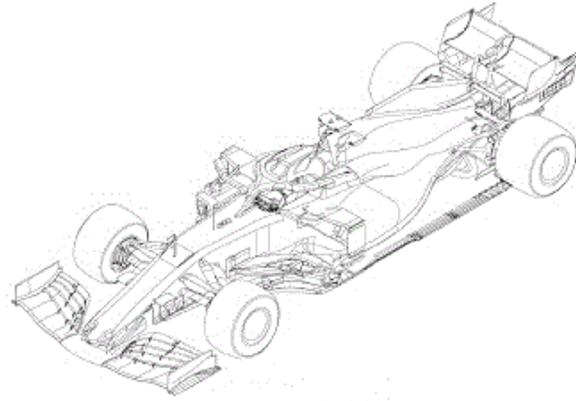
57: The design is for a sausage cutter having a cutting blade for cutting a sausage rope into smaller sections and a support formation spaced from the cutting blade, for supporting the sausage as it is cut. The cutting blade defines a V-shaped recess in which a side portion of the sausage to be cut, is received. An inner side of the cutting blade defines a convexly domed cutting face for meshing with a cutting face of a similar cutting blade in a shearing

action for cutting the sausage when the similar cutting blade is received in the space between the cutting blade and the support formation. The support formation has a rounded recess within which the side portion of the sausage is received for supporting the sausage and resisting lateral forces applied to the sausage while it is cut. Outer sides of the cutting blade and the support formation have concave curved strengthening formations.



21: A2020/01075 22: 2020-08-06 23:
43: 2021-04-15
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: EM 31: 007669767-0001 32: 2020-02-07
54: Car

57: The design relates to a car. The features of the design are those of shape and/or configuration and/or ornamentation.

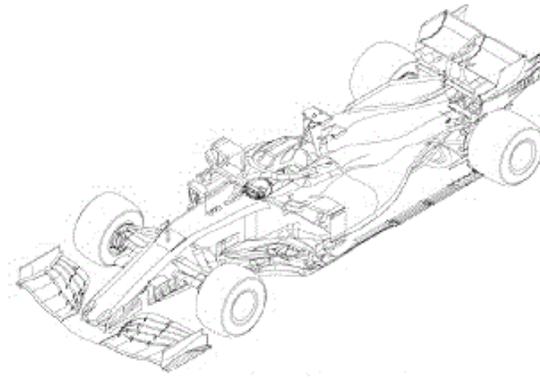


FRONT PERSPECTIVE VIEW

21: A2020/01076 22: 2020-08-06 23:
43: 2021-04-15
52: Class 21. 24: Part A
71: FERRARI S.P.A.
33: EM 31: 007669791-0001 32: 2020-02-07

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or ornamentation.

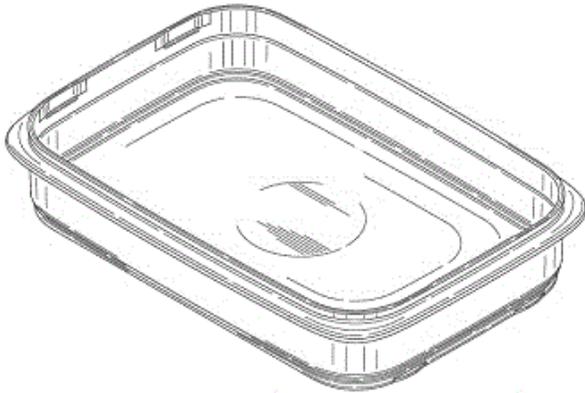


FRONT PERSPECTIVE VIEW

21: A2020/01083 22: 2020-08-11 23:
43: 2021-04-21
52: Class 7. 24: Part A
71: DART INDUSTRIES INC.
33: US 31: 29/724,008 32: 2020-02-12

54: Storage Container

57: The design relates to a storage container. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND RIGHT SIDE PERSPECTIVE VIEW

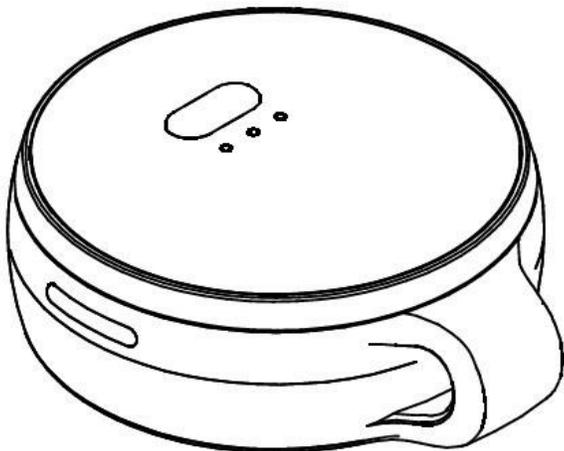
21: A2020/01088 22: 2020-08-12 23: 43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED
33: EU 31: 007723648-0001 32: 2020-02-28

54: LOCATING DEVICE

57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.



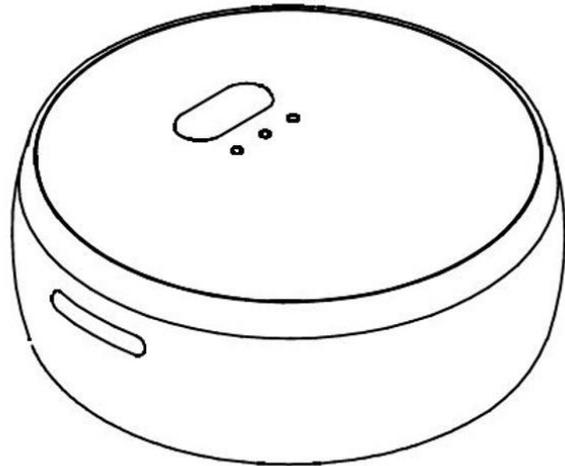
21: A2020/01089 22: 2020-08-12 23: 43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED
33: EU 31: 007723648-0002 32: 2020-02-28

54: LOCATING DEVICE

57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.



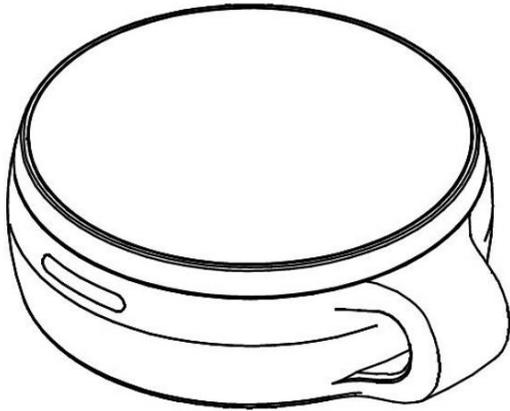
21: A2020/01090 22: 2020-08-12 23: 43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED
33: EU 31: 007723648-0003 32: 2020-02-28

54: LOCATING DEVICE

57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.



21: A2020/01091 22: 2020-08-12 23:
43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED

33: EU 31: 007723648-0004 32: 2020-02-28

54: LOCATING DEVICE

57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.



21: A2020/01094 22: 2020-08-12 23:
43: 2020-08-12

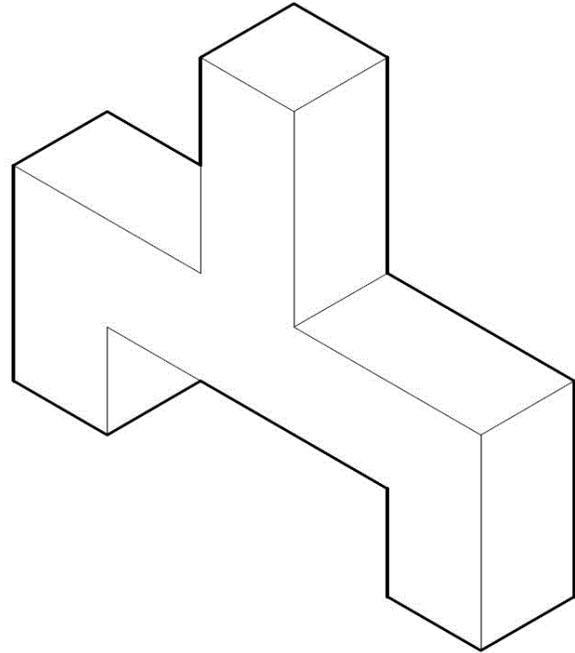
52: Class 21 24: Part A

71: CROCKETT, John Malcolm

54: BLOCKS

57: The design is for a three-dimensional block which can be used for amusement. When seen in front view, the block has a body which is symmetrical

about a transversely extending midline. The body comprises a roughly C-shaped portion which has pair of spaced apart square legs and a lateral, perpendicular bisector which extends away from the C-shaped portion in an opposing direction. Using a plurality of these blocks, a host of different patterns and three-dimensional, tower-like structures or assemblies can be created. An outer leg length of each leg is equal to a length of the perpendicular bisector. The perpendicular bisector and the respective legs have an equal, square cross-section.



21: A2020/01095 22: 2020-08-12 23:
43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED

33: EU 31: 007723648-0006 32: 2020-02-28

54: LOCATING DEVICE

57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.



57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.



21: A2020/01096 22: 2020-08-12 23:
43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED

33: EU 31: 007723648-0007 32: 2020-02-28

54: LOCATING DEVICE

57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.

21: A2020/01098 22: 2020-08-12 23:
43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED

33: EU 31: 007723648-0009 32: 2020-02-28

54: LOCATING DEVICE

57: The design is applied to a locating device. 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 locating device, substantially as illustrated in the accompanying representation.



21: A2020/01097 22: 2020-08-12 23:
43: 2021-04-21

52: Class 10 24: Part A

71: VODAFONE GROUP SERVICES LIMITED

33: EU 31: 007723648-0008 32: 2020-02-28

54: LOCATING DEVICE

21: A2020/01106 22: 2020-08-13 23:
43: 2020-02-14

52: Class 9 24: Part A
 71: Colgate-Palmolive Company
 33: US 31: 29/724,336 32: 2020-02-14

54: BOTTLES

57: The design is for a bottle. The bottle includes an elongate body extending between an oval base at one end and a peripheral shoulder at an opposing end thereof. When seen in top and bottom view, the body has an oval outline. A plurality of curved peripheral grooves is provided along a length of the body. The body is configured to provide a narrower waist. A neck extends from the shoulder and tapers operatively inwardly and upwardly away from the shoulder. A central screw cap opening protrudes from the neck. When seen in side view, a generally oval shaped indent formation is provided on the body proximate the base and shoulder, respectively.

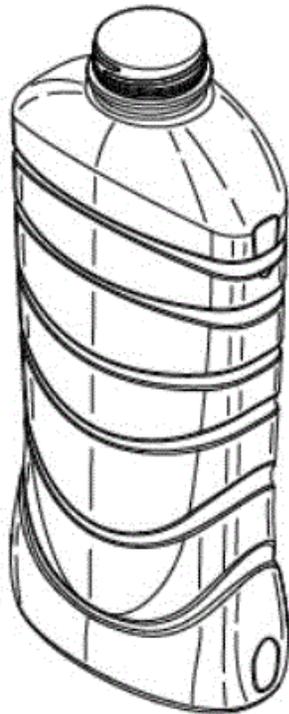


Figure 1

Three-dimensional view

21: A2020/01107 22: 2020-08-13 23:
 43: 2020-02-14
 52: Class 9 24: Part A
 71: Colgate-Palmolive Company
 33: US 31: 29/724,336 32: 2020-02-14

54: BOTTLES

57: The design is for a bottle. The bottle includes an elongate body extending between an oval base at one end and a peripheral shoulder at an opposing

end thereof. When seen in top and bottom view, the body has an oval outline. A plurality of curved peripheral grooves is provided along a length of the body. The body is configured to provide a narrower waist. A neck extends from the shoulder and tapers operatively inwardly and upwardly away from the shoulder. A central screw cap opening protrudes from the neck.

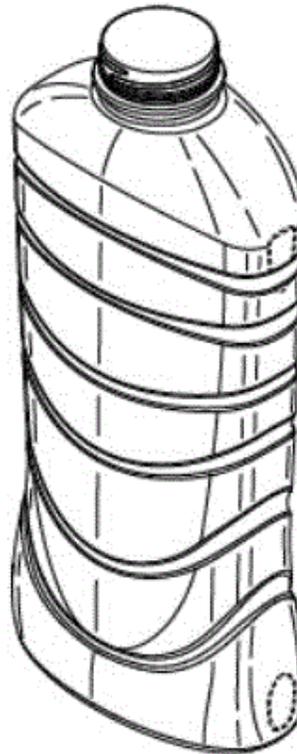


Figure 1

Three-dimensional view

21: A2020/01112 22: 2020-08-14 23:
 43: 2021-05-24

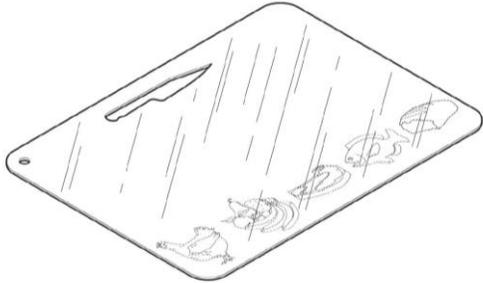
52: Class 07 24: Part A

71: SWARTZ, Davonne David, LOFTUS, Shanel Kim

54: RECTANGULAR MIRROR FINISH FOOD PREPARATION BOARD

57: The novelty of the design resides in the shape, configuration and ornamentation of a RECTANGULAR MIRROR FINISH FOOD PREPARATION BOARD substantially as shown in the drawings, the ornamentation of the RECTANGULAR MIRROR FINISH FOOD PREPARATION BOARD being constituted by a mirror finish applied at least to the upper surface of the RECTANGULAR MIRROR FINISH FOOD PREPARATION BOARD. The images illustrated in

dotted lines in the drawings are variable, decorative, do not form part of the design, and are disclaimed.



21: A2020/01156 22: 2020-08-26 23:
43: 2021-04-22
52: Class 20. 24: Part A
71: KIESER, HENDRIK GEORG
54: A billboard

57: The design relates to a billboard. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/01164 22: 2020-08-27 23:
43: 2021-05-19
52: Class 12 24: Part A
71: ONCA OFF-ROAD PRODUCTS
54: LAND CRUISER MK2 BULL BAR

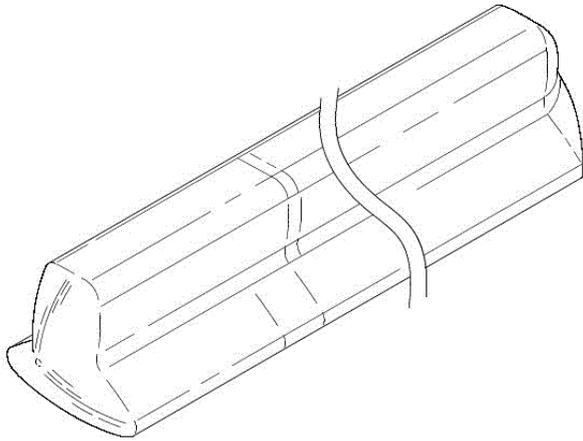
57: The design relates to a Land Cruiser MK2 Bull Bar, the features of the design are those of shape, configuration, and/or ornamentation.



LAND CRUISER MK2 BULLBAR
ONCA OFF-ROAD

21: A2020/01166 22: 2020-08-28 23:
43: 2020-08-28
52: Class 9 24: Part A
71: Nimalux (Pty) Ltd.
54: FUEL TANK

57: The design is applied to a fuel tank for a transport container. The features of the design for which protection is claimed include the shape and/or configuration of a fuel tank, substantially as illustrated in the accompanying representations.



Three-dimensional view

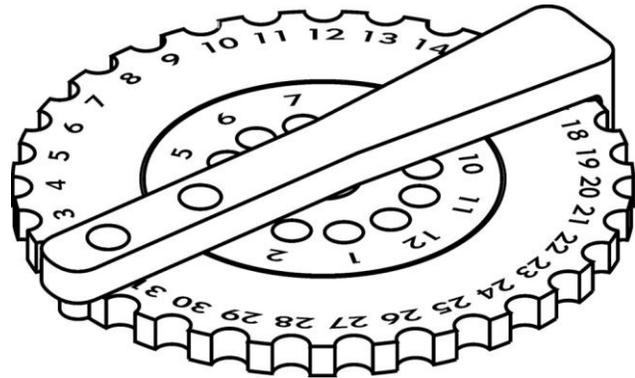
21: A2020/01174 22: 2020-09-01 23:
43: 2021-04-22
52: Class 14. 24: Part A
71: VIVO MOBILE COMMUNICATION CO., LTD.
33: CN 31: 202030065539.1 32: 2020-03-02
54: Mobile Phone
57: The design relates to a mobile phone. The features of the design are those of shape and/or configuration and/or ornamentation.



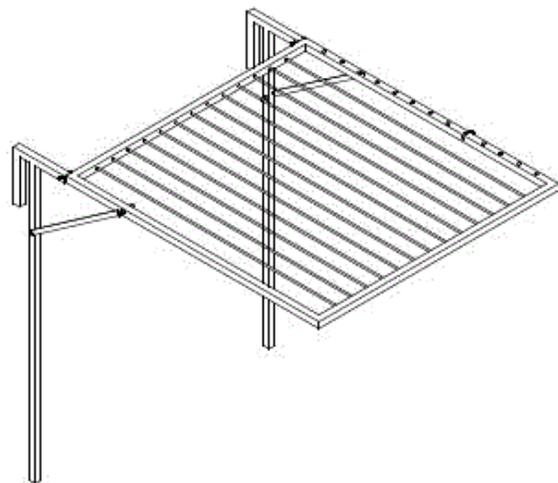
FRONT PERSPECTIVE VIEW

21: A2020/01175 22: 2020-09-02 23:
43: 2021-04-22
52: Class 10 24: Part A
71: VILABRIL, Monica De Oliveira
54: DATE AND/OR TIME INDICATOR
57: The design is applied to a date and/or time indicator. 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 date and/or time indicator, substantially as illustrated in the accompanying representation. The numerical markings appearing on the date and/or time indicator do not form part of the design and are disclaimed. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2020/01215 22: 2020-09-09 23:
43: 2020-09-09
52: Class 7 24: Part A
71: NASCIMENTO, Linda Ann
54: DRYING RACK
57: The design is applied to a drying rack. The features of the design for which protection is claimed include the shape and/or configuration and/or ornamentation of a drying rack substantially as shown in the accompanying representations.



Three-dimensional view in an open position

21: A2020/01219 22: 2020-09-10 23:
43: 2021-04-22

52: Class 12. 24: Part A
 71: TOYOTA JIDOSHA KABUSHIKI KAISHA
 33: JP 31: 2020-004943 32: 2020-03-12

54: Automobile

57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT LEFT PERSPECTIVE VIEW

21: A2020/01220 22: 2020-09-10 23:
 43: 2021-04-22
 52: Class 26. 24: Part A
 71: TOYOTA JIDOSHA KABUSHIKI KAISHA
 33: JP 31: 2020-004944 32: 2020-03-12
54: Front Combination Lamp for an Automobile
 57: The design relates to a front combination lamp for an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

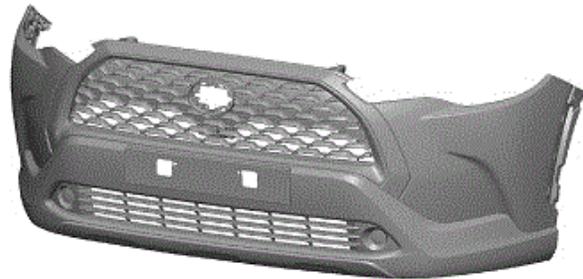
21: A2020/01221 22: 2020-09-10 23:
 43: 2021-04-22
 52: Class 26. 24: Part A
 71: TOYOTA JIDOSHA KABUSHIKI KAISHA
 33: JP 31: 2020-004945 32: 2020-03-12
54: Front Combination Lamp for an Automobile

57: The design relates to a front combination lamp for an automobile. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/01222 22: 2020-09-10 23:
 43: 2021-04-22
 52: Class 12. 24: Part A
 71: TOYOTA JIDOSHA KABUSHIKI KAISHA
 33: JP 31: 2020-004946 32: 2020-03-12
54: Front Bumper for an Automobile
 57: The design relates to a front bumper for an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2020/01225 22: 2020-09-10 23:
 43: 2021-04-22
 52: Class 08 24: Part A
 71: MOULDMAN DESIGN & DISTRIBUTION (PTY) LTD
54: A BRACKET FOR FASTENING A PIPE TO A SUPPORT STRUCTURE
 57: The novelty in the design as applied to a bracket for fastening a pipe to a support structure (commonly

known as a holderbat) resides in the shape and/or configuration and/or pattern and/or ornamentation of the bracket substantially as shown in the accompanying drawings.

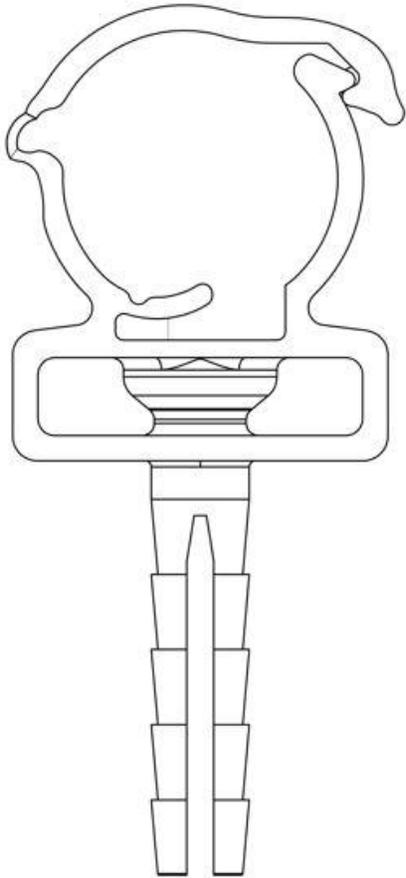
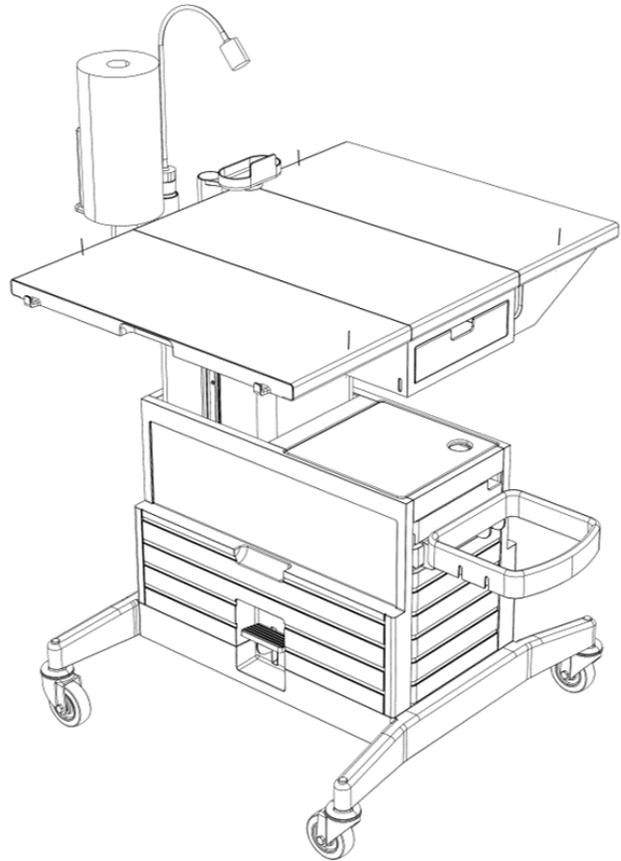


Figure 1

Front view of the bracket in the closed position



21: A2020/01230 22: 2020-09-11 23:
43: 2020-03-12
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 202030082159.9 32: 2020-03-12

54: CARS

57: The design is for an automobile. A front of the automobile has a large central radiator grille having horizontal operatively top and bottom edges, interconnected by outwardly diverging side edges, which has a distinctive pattern resembling a striped matrix to provide a textured appearance, being flanked by headlights extending into side panels of the vehicle. Fog lights are provided in a quadrilateral recess below each headlight. The quadrilateral recesses are interconnected by a front bumper with a front central number plate formation. A bonnet of the automobile has a pair of parallel, longitudinally extending contour lines. A pair of taillights each comprise a pair of horizontal bars partially enclosed in a border, with upper bars protruding inwardly beyond the borders. A horizontal rear bumper is provided with a rear central number plate formation.

21: A2020/01229 22: 2020-09-11 23:
43: 2021-04-22
52: Class 12 24: Part A
71: CHANNEL PRODUCTS, INC.
33: US 31: 29/727,533 32: 2020-03-11

54: CART

57: The design is applied to a cart. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the cart, substantially as illustrated in the accompanying representation.



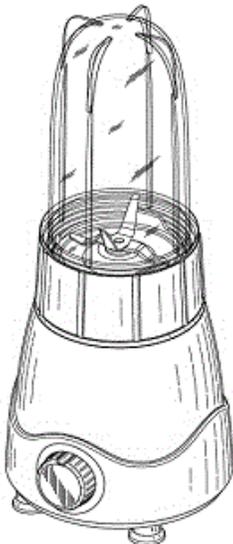
Figure 1

Three-dimensional view

21: A2020/01242 22: 2020-09-17 23:
43: 2021-04-30
52: Class 31. 24: Part A
71: CAPBRAN HOLDINGS, LLC
33: US 31: 29/728,433 32: 2020-03-18

54: Food Processing System

57: The design relates to a food processing system. The features of the design are those of shape and/or configuration and/or ornamentation.



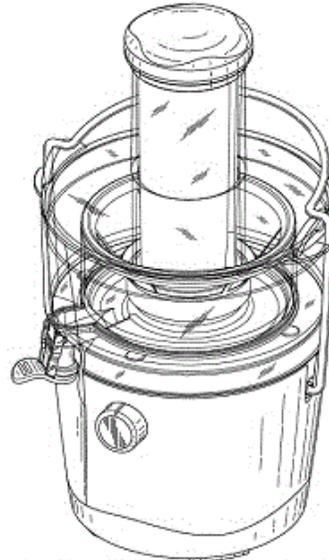
FRONT PERSPECTIVE VIEW

21: A2020/01243 22: 2020-09-17 23:
43: 2021-04-30
52: Class 31. 24: Part A
71: CAPBRAN HOLDINGS, LLC

33: US 31: 29/728,441 32: 2020-03-18

54: Juicer

57: The design relates to a juicer. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/01244 22: 2020-09-17 23:
43: 2021-04-30
52: Class 31. 24: Part A
71: CAPBRAN HOLDINGS, LLC
33: US 31: 29/728,433 32: 2020-03-18

54: Food Processing System

57: The design relates to a food processing system. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/01245 22: 2020-09-17 23:
43: 2021-04-30
52: Class 7. 24: Part A
71: CAPBRAN HOLDINGS, LLC
33: US 31: 29/728,441 32: 2020-03-18

54: Pitcher

57: The design relates to a pitcher. The features of the design are those of shape and/or configuration and/or ornamentation.

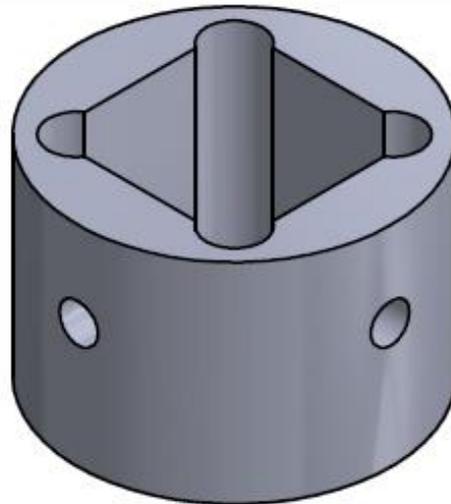


FRONT PERSPECTIVE VIEW

21: A2020/01265 22: 2020-09-22 23:
43: 2021-06-02
52: Class 03 24: Part A
71: Cape Umbrellas

54: BUSH FOR UMBRELLA

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and/or ornamentation of a bush, said bush used in an umbrella as shown in the accompanying representations.



21: A2020/01267 22: 2020-09-22 23:
43: 2021-06-02
52: Class 03 24: Part A
71: Cape Umbrellas

54: BUSH FOR UMBRELLA

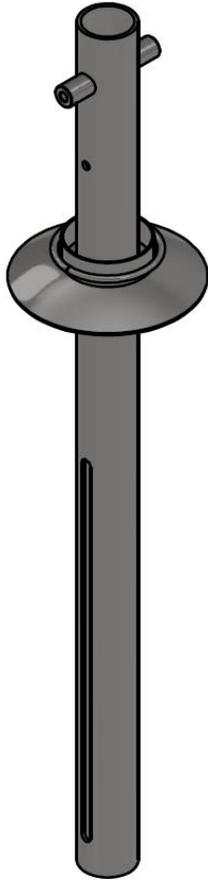
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and/or configuration of a bush, said bush used in an umbrella as shown in the accompanying representations.



21: A2020/01269 22: 2020-09-22 23:
43: 2021-06-02
52: Class 03 24: Part A
71: Cape Umbrellas

54: TUBE FOR UMBRELLA

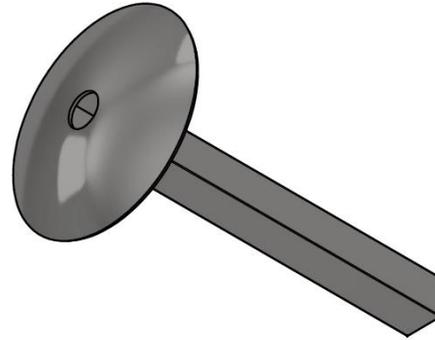
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and/or ornamentation of a tube, said tube used in an umbrella as shown in the accompanying representations



21: A2020/01271 22: 2020-09-22 23:
43: 2021-06-02
52: Class 03 24: Part A
71: Cape Umbrellas

54: DOME FOR UMBRELLA

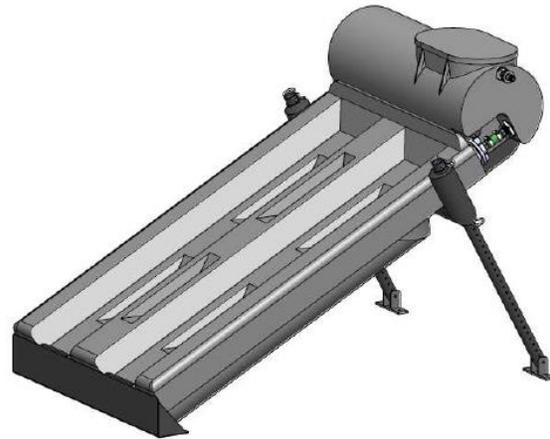
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and/or ornamentation of a dome, said dome used in an umbrella as shown in the accompanying representations



21: A2020/01288 22: 2020-09-25 23:
43: 2021-05-19
52: Class 23 24: Part A
71: Jo Jo Tanks (Pty) Limited

54: SOLAR GEYSER

57: The design is to be applied to a roof mountable solar-powered geyser and the novelty resides in the features of the shape, pattern, ornamentation and/or configuration as shown in the accompanying representations.

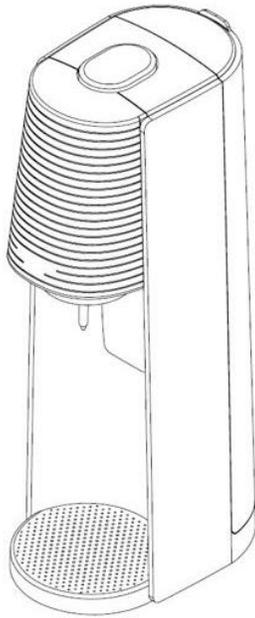


PERSPECTIVE VIEW

21: A2020/01371 22: 2020-10-20 23:
43: 2021-05-25
52: Class 31 24: Part A
71: SODASTREAM INDUSTRIES LTD.

54: DOMESTIC SODA-WATER PREPARING DEVICES

57: The design is for a domestic soda-water preparing device as shown in the representations.

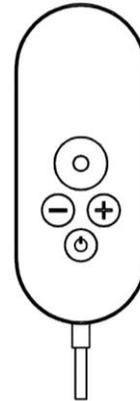


21: A2020/01542 22: 2020-11-27 23:
43: 2021-06-08
52: Class 22 24: Part A
71: Eagle Eye Bird Control Trust
54: BIRD REPELLENT DEVICE
57: The design relates to a Bird repellent device.
The features of the design are those of shape and/or
pattern and/or configuration and/or ornamentation.



21: A2021/00446 22: 2021-04-26 23:
43: 2021-05-12
52: Class 24 24: Part A
71: PARASYM LTD
33: CN 31: 202130028451.7 32: 2021-01-15
54: EXTERNAL PULSE GENERATOR
57: The features of the design for which protection is
claimed reside in the shape and/or configuration of
the external pulse generator substantially as shown
in the accompanying representations. The external

pulse generator is for generating and controlling
pulses and display equipment.

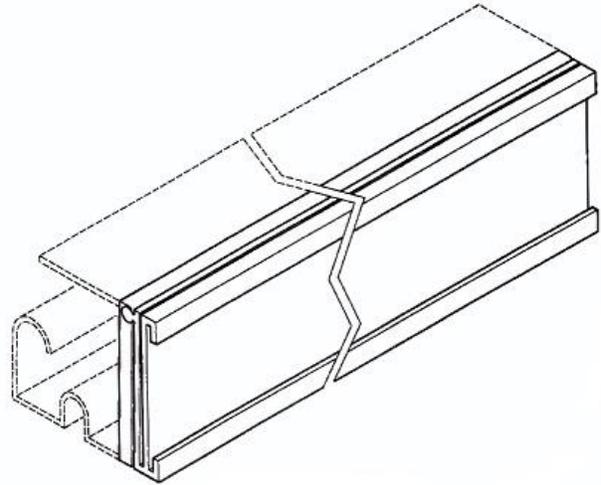
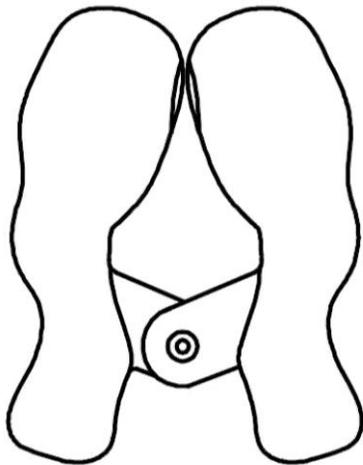


21: A2021/00447 22: 2021-04-26 23:
43: 2021-05-12
52: Class 24 24: Part A
71: PARASYM LTD
33: CN 31: 202130028387.2 32: 2021-01-15
54: TRANSCUTANEOUS ELECTRODES
57: The features of the design for which protection is
claimed reside in the shape and/or configuration of
the transcutaneous electrodes substantially as
shown in the accompanying representations. The
transcutaneous electrodes provide non-invasive
transcutaneous electrical nerve stimulation.



21: A2021/00448 22: 2021-04-26 23:
43: 2021-05-12
52: Class 24 24: Part A
71: PARASYM LTD
33: CN 31: 202130136539.0 32: 2021-03-15
54: AURICULAR PERCUTANEOUS ELECTRODE
57: The features of the design for which protection is
claimed reside in the shape and/or configuration of
the auricular percutaneous electrode substantially as
shown in the accompanying representations. The

auricular percutaneous electrode provides non-invasive auricular percutaneous electrical nerve stimulation.

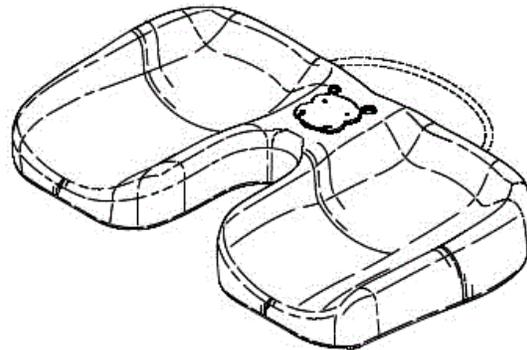


21: F2016/00117 22: 2016-01-28 23: 43: 2016-09-19
52: Class 20 24: Part F
71: HOLDIT MARKETING AND MANUFACTURING (PTY) LIMITED

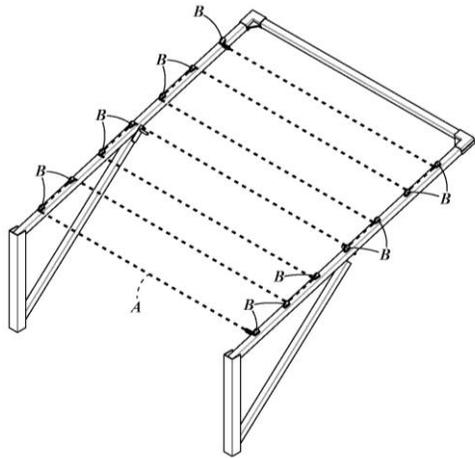
54: A PIVOTABLE SHELF EDGE DISPLAY SYSTEM

57: The design is in respect of shelf edge display system for positioning on an edge of a shelf, typically a retail shelf. The system includes an article locating arrangement and a shelf edge fitting complementary thereto. The article locating arrangement is removably mounted to the shelf edge and adapted to hold and display information relating to one or more items positioned on the shelf. The article locating arrangement has two elongate generally parallel side walls joined to each other by a short base at a first of their respective ends, the side walls defining an article locating space between them. A first of the side walls is biased to abut the other side wall and remain in a closed position wherein entry to the article locating space is closed until forcible opened to locate an article, typically first information relating to one or more items positioned on the shelf, in the locating space. An elongate bulbous protrusion extends along an upper edge of article locating arrangement while a complementary shaped groove extends along an upper edge of a shelf edge fitting.

21: F2019/00877 22: 2019-06-27 23: 43: 2019-06-27
52: Class 6 24: Part F
71: Huduhealth (Pty) Ltd.
54: KNEELER
57: The design is applied to a kneeler substantially as illustrated in the accompanying representations.



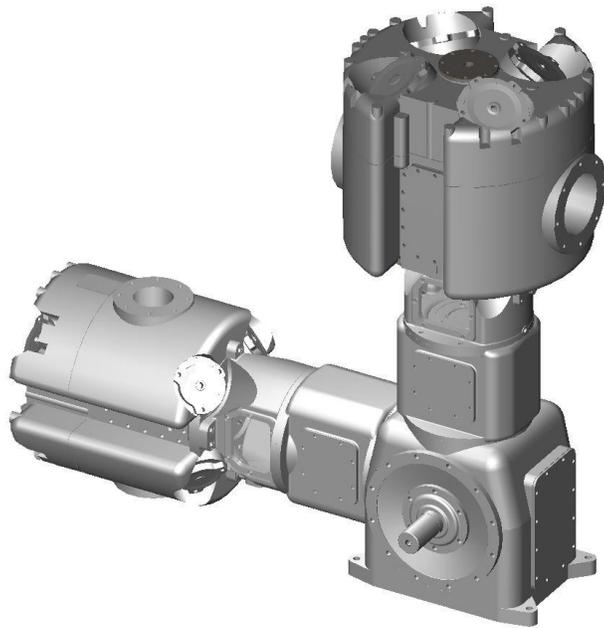
21: F2019/01435 22: 2019-09-26 23: 43: 2021-03-12
52: Class 07 24: Part F
71: ADRIAAN NEL
54: A DRYING RACK
57: The design relates to a DRYING RACK. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of the DRYING RACK including the line supports B substantially as illustrated in the accompanying representations. The pattern and/or shape and/or configuration of the line A, shown in broken lines, is not claimed.



*REAR UPPER PERSPECTIVE VIEW SHOWING
WASHING LINE A IN DOTTED LINES*

21: F2019/01618 22: 2019-10-30 23:
43: 2021-05-04
52: Class 15 24: Part F
71: ATELIERS FRANCOIS
33: EU 31: 006494589-0001 32: 2019-05-21
54: COMPRESSORS (PART OF-)

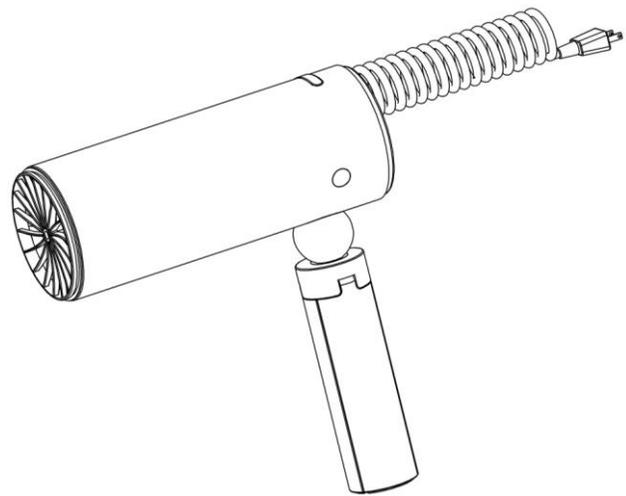
57: The design is for a part of compressors and components of air compressors. The features of the design for which protection is claimed are the shape and configuration of the design substantially as illustrated in the accompanying representation.



21: F2020/00166 22: 2020-02-12 23:
43: 2021-04-15

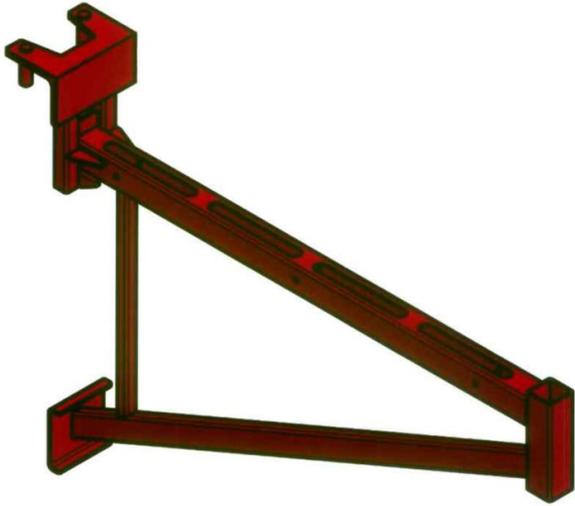
52: Class 28 24: Part F
71: WANG, Xiaobing, LI, Liangqing
33: CN 31: 201930471110.X 32: 2019-08-28
54: HAIR DRYER

57: The design is applied to a hair dryer. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the hair dryer, substantially as illustrated in the accompanying representation.



21: F2020/00173 22: 2020-02-13 23:
43: 2021-04-15
52: Class 25 24: Part F
71: PERI GMBH
33: IN 31: 324436-001 32: 2019-12-05
54: SCAFFOLDING BRACKET

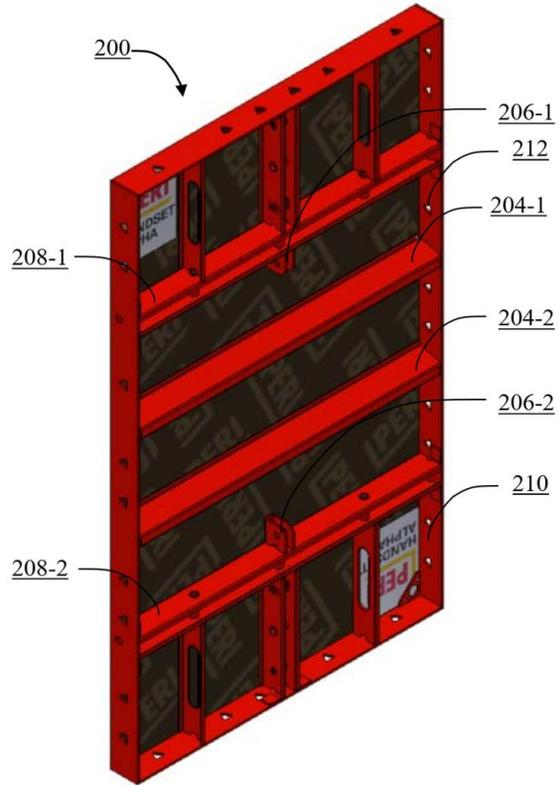
57: The design is applied to a scaffolding bracket. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the scaffolding bracket, substantially as illustrated in the accompanying representations. Colour forms no part of the design and is disclaimed.



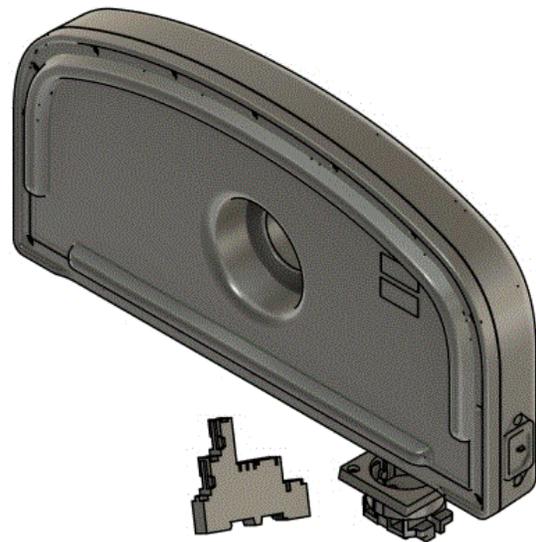
21: F2020/00176 22: 2020-02-13 23:
43: 2021-04-26
52: Class 25 24: Part F
71: PERI GMBH

54: A PANEL

57: The design is applied to panel. The features of the design for which protection is claimed are those of the shape and/or configuration of the panel. The panel has at least one stiffener member with a slanted or substantially V-shaped profile, substantially as illustrated in the accompanying representations. The illustrated board attached to the frame of the panel, the illustrated colour of the frame of the panel, and the external profile, brace connectors, anchor struts and other illustrated reinforcing members of the frame are not limiting on the design and are disclaimed.



21: F2020/00320 22: 2020-03-10 23:
43: 2021-03-10
52: Class 23 24: Part F
71: MEYER, Eugene, VAN DEN BERG, Gaston
54: TOILET CISTERN LID
57: The design is in respect of a toilet cistern lid as shown in the representations which may be used to replace an existing cistern lid.



21: F2020/00334 22: 2020-03-11 23:
43: 2020-03-11

52: Class 12 24: Part F

71: SUPERCART SOUTH AFRICA (PTY) LTD

54: TROLLEY CHASSIS

57: The design is applied to a trolley chassis for a steel trolley, the chassis defining an integrated handle. The features of the design for which protection is claimed include the shape and/or configuration of a trolley chassis, substantially as illustrated in the accompanying representations. The dotted portions are disclaimed and do not form any part of the claimed design.



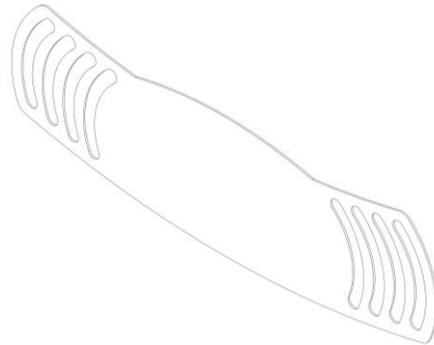
21: F2020/00376 22: 2020-03-19 23:
43: 2021-05-24

52: Class 24 24: Part F

71: MWRD (PTY) LTD

54: MASK

57: The design relates to a Mask. The features of the design are those of shape and/or pattern and/or configuration.



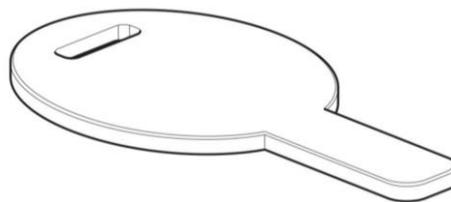
21: F2020/00511 22: 2020-05-04 23:
43: 2020-12-18

52: Class 08 24: Part F

71: De Zsign Trading CC

54: HYGIENE KEY

57: The novelty of this design resides in the shape and configuration of a HYGIENE KEY substantially as shown in the drawings.



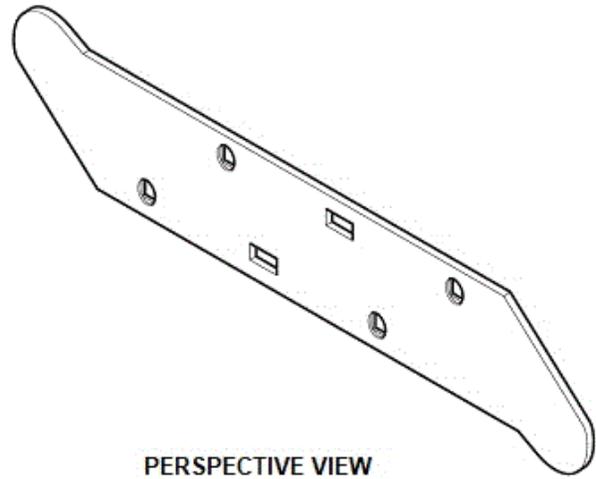
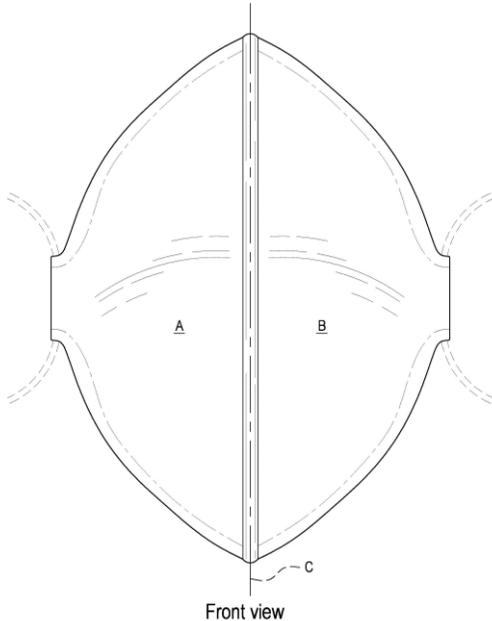
21: F2020/00527 22: 2020-05-05 23:
43: 2020-04-29

52: Class 29 24: Part F

71: Palm Footwear Manufacturers (Pty) Ltd

54: MASKS

57: This design is for a face mask having a pair of major lobes connected along a central axis, wherein each lobe is substantially eye-shaped with a laterally projecting portion. Each lobe may comprise a pair of layers formed or terminating in a loop at the laterally projecting square portion such that a suitable strap is locatable through the loop. In this way, in use, the straps are attachable to an ear of a user thereby facilitating attachment of the mask to a face of the user thereby covering the mouth and nose of the user.

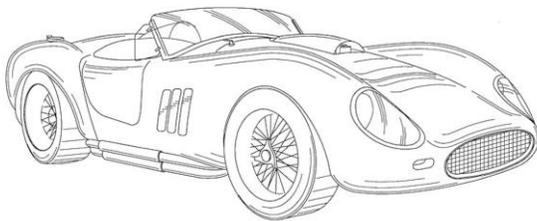


PERSPECTIVE VIEW

21: F2020/00681 22: 2020-05-29 23:
43: 2021-06-21
52: Class 12 24: Part F
71: Taormina Imports
33: US 31: 29/733,400 32: 2020-05-01

54: AUTOMOBILE

57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern applied to the automobile shown in the representations.



21: F2020/00920 22: 2020-06-30 23:
43: 2021-04-15
52: Class 15. 24: Part F
71: ERNEST H. JOHNSON (PTY) LTD.

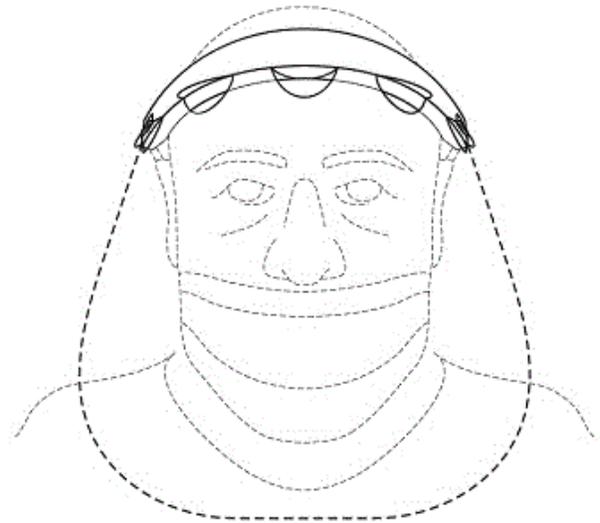
54: Ploughshare Blade

57: The design relates to a ploughshare blade. The features of the design are those of shape and/or configuration and/or pattern.

21: F2020/00921 22: 2020-06-30 23:
43: 2021-04-15
52: Class 29. 24: Part F
71: CONVER-TEK (PTY) LTD

54: Face Shield

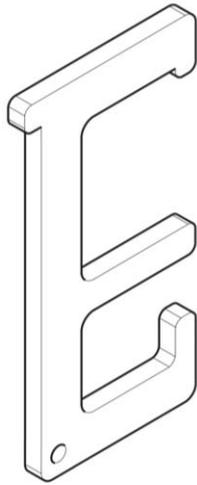
57: The design relates to a face shield. The features of the design are those of shape and/or configuration and/or pattern.



FRONT VIEW IN USE

21: F2020/00976 22: 2020-07-14 23:
43: 2021-05-24
52: Class 08 24: Part F
71: De Zsign Trading CC
54: MULTI-TOOL

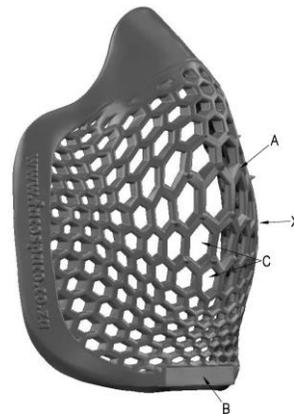
57: The novelty of this design resides in the shape and configuration of a MULTI-TOOL substantially as shown in the drawings.



21: F2020/01005 22: 2020-07-17 23:
43: 2020-07-17
52: Class 29 24: Part F
71: NORMAN, Jarid Michael

54: Spacer Devices for Face Masks

57: This design is for a spacer device for a face mask substantially as shown in the representations. The device has a cup-like body which comprises a plurality of vents with hexagonal profiles, wherein the vents are of variable size. The body is bordered by a peripheral edge which follows the contours of a human face. A bulbous front portion of the device may comprise larger primary vents whereas smaller secondary vents may be provided adjacent the peripheral edge. The device comprises a plurality of barbs on an exterior surface thereof to engage, and retain in engagement, an interior surface of a flexible face mask so as to space the face mask from the face of the user, in use.



21: F2020/01003 22: 2020-07-17 23:
43: 2021-04-15
52: Class 09 24: Part F
71: CORRUSEAL GROUP (PTY) LTD

54: CONTAINERS

57: The features of the design for which protection is claimed reside primarily in the set of four holes arranged in a rectangular formation in a top wall of the container as shown in the accompanying representations, the shape and/or configuration and/or pattern of the holes in the top wall being essential features of the design, while the other parts of the design are non-essential features.



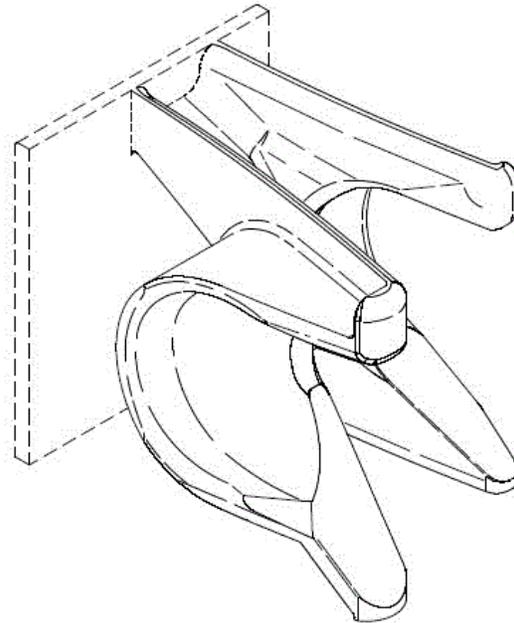
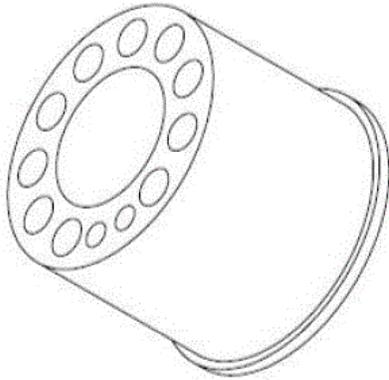
Figure 1

Three-dimensional view of top wall and front of erected container

21: F2020/01021 22: 2020-07-24 23:
43: 2021-04-15
52: Class 13 24: Part F
71: TRAIL-LINK CC

54: AN ELECTRICAL CONNECTOR

57: The drawing shows a three-dimensional view of an electrical connector showing the overall appearance thereof.



21: F2020/01036 22: 2020-07-29 23:
43: 2020-07-29
52: Class 31 24: Part F
71: FREDDY HIRSCH GROUP PROPRIETARY
LIMITED

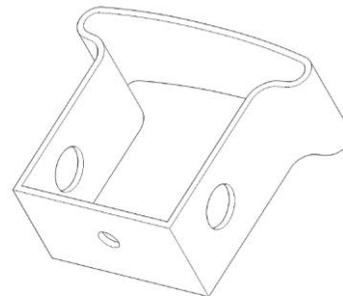
54: Sausage Cutters

57: The design is for a sausage cutter having a cutting blade for cutting a sausage rope into smaller sections and a support formation spaced from the cutting blade, for supporting the sausage as it is cut. The cutting blade defines a V-shaped recess in which a side portion of the sausage to be cut, is received. An inner side of the cutting blade defines a convexly domed cutting face for meshing with a cutting face of a similar cutting blade in a shearing action for cutting the sausage when the similar cutting blade is received in the space between the cutting blade and the support formation. The support formation has a rounded recess within which the side portion of the sausage is received for supporting the sausage and resisting lateral forces applied to the sausage while it is cut. Outer sides of the cutting blade and the support formation have concave curved strengthening formations.

21: F2020/01084 22: 2020-08-11 23:
43: 2021-04-21
52: Class 25 24: Part F
71: SPEIRS, Michael

54: FENCE POST

57: The novelty of this design resides in the shape and configuration of a FENCE POST substantially as shown in the drawings and, in particular, to the cross-sectional profile of the FENCE POST (Figure 3). The length of FENCE POST shown in the perspective view drawings (Figures 1 and 2) are for illustration purposes to show the FENCE POST in manufactured form.

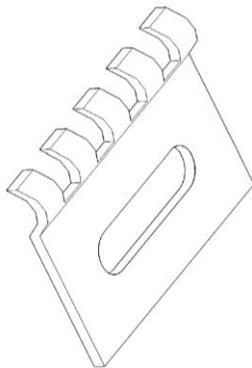


21: F2020/01085 22: 2020-08-11 23:
43: 2021-04-21
52: Class 25 24: Part F
71: SPEIRS, Michael

54: FENCE POST CLIP

57: The novelty of this design resides in the shape and configuration of a FENCE CLIP substantially as

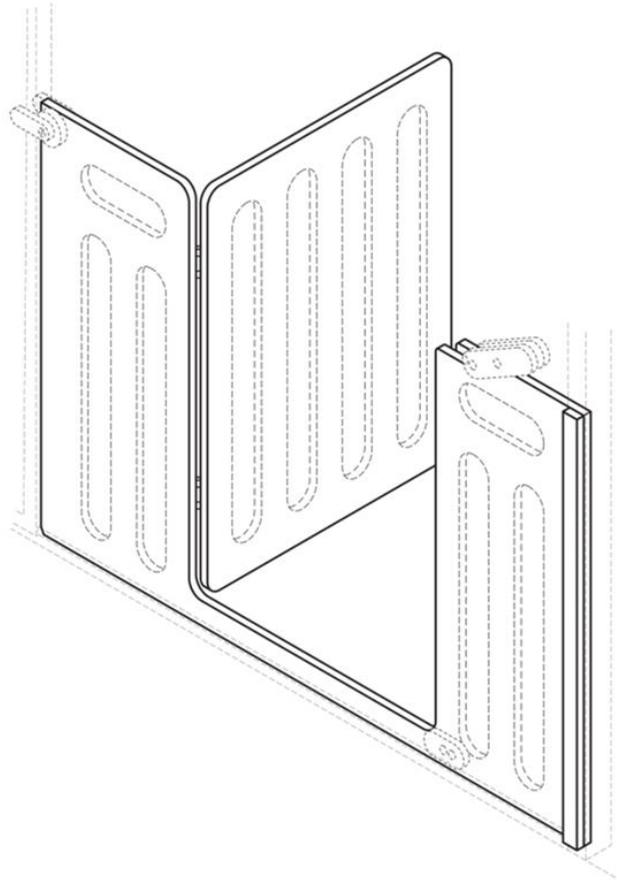
shown in the drawings. The fence post labelled A is for illustration purposes, does not form part of the design and is disclaimed.



21: F2020/01129 22: 2020-08-19 23:
43: 2021-04-21
52: Class 25 24: Part F
71: ESTERHUYSE, Jacobus Johannes

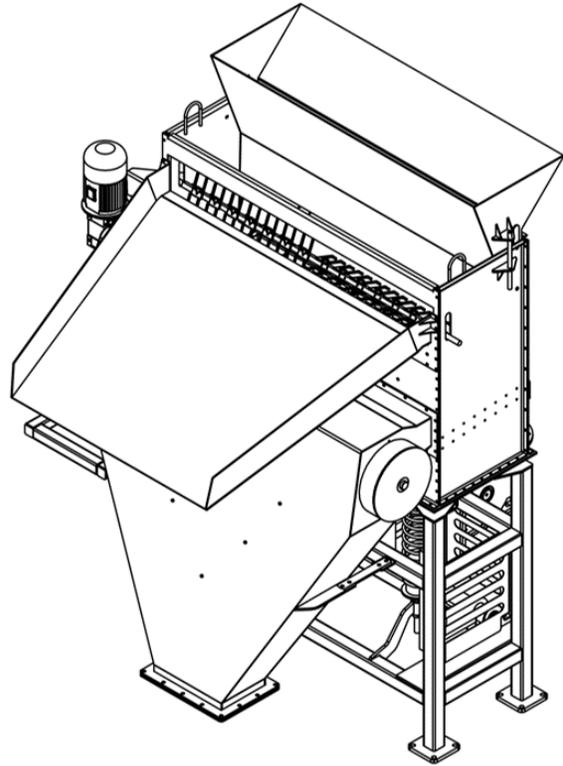
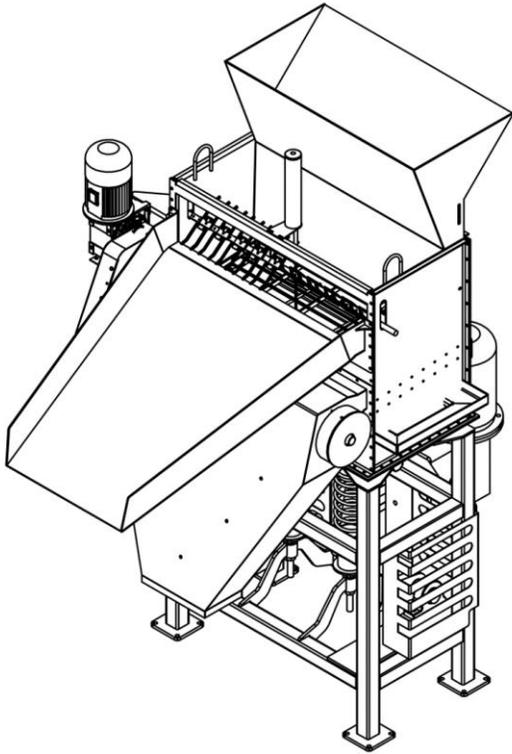
54: PORTABLE GATE

57: The design is applied to a portable gate. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the portable gate, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2020/01130 22: 2020-08-19 23:
43: 2021-04-21
52: Class 15 24: Part F
71: PULSATING JIGS INTERNATIONAL (PTY) LTD
54: JIG CONCENTRATOR

57: The design is applied to a jig concentrator. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the jig concentrator, substantially as illustrated in the accompanying representation. The features of the frame, electronics housing, linkages, drives, motors and gearboxes (20, 21, 23, 25, 27, 29) of the jig concentrator do not form part of the design and are disclaimed.

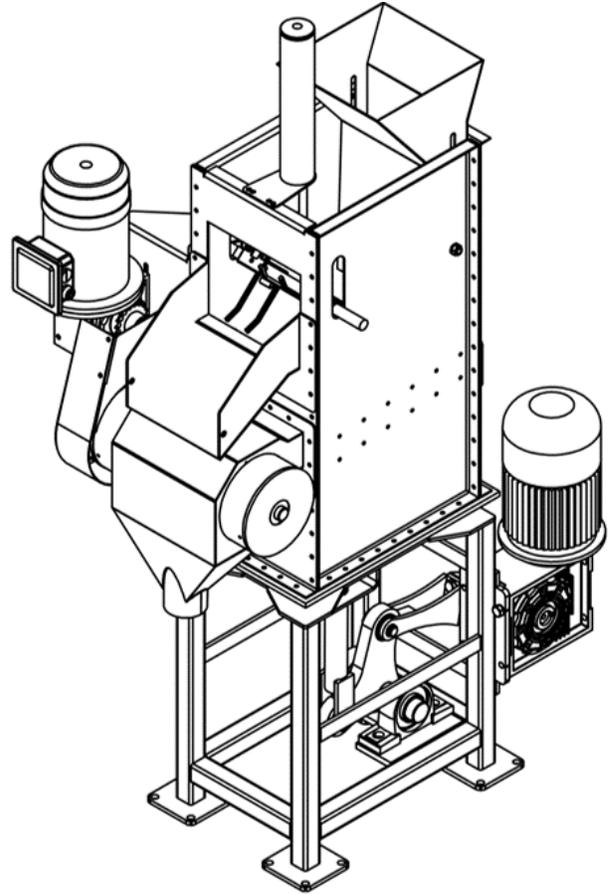
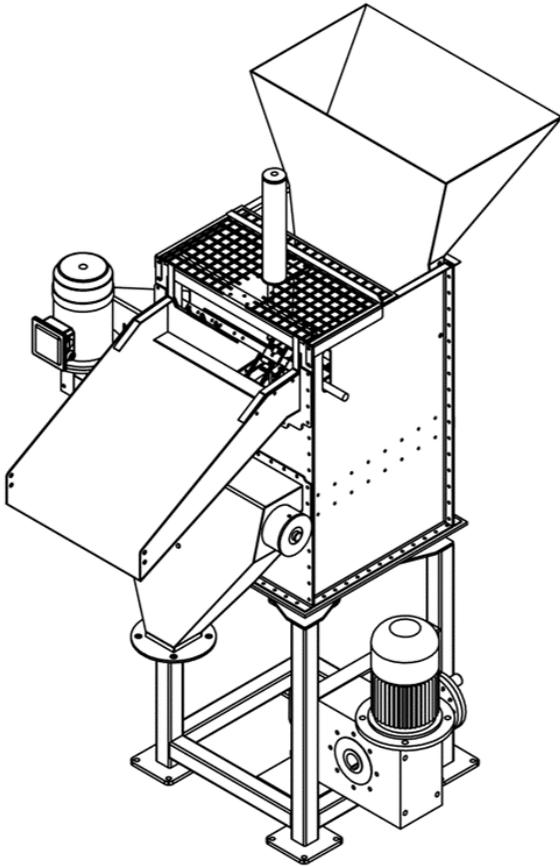


21: F2020/01132 22: 2020-08-19 23:
 43: 2021-04-21
 52: Class 15 24: Part F
 71: PULSATING JIGS INTERNATIONAL (PTY) LTD
54: JIG CONCENTRATOR

57: The design is applied to a jig concentrator. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the jig concentrator, substantially as illustrated in the accompanying representation. The features of the frame, linkages, drives, motors and gearboxes (21, 23, 25, 27, 29) of the jig concentrator do not form part of the design and are disclaimed.

21: F2020/01133 22: 2020-08-19 23:
 43: 2021-04-21
 52: Class 15 24: Part F
 71: PULSATING JIGS INTERNATIONAL (PTY) LTD
54: JIG CONCENTRATOR

57: The design is applied to a jig concentrator. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the jig concentrator, substantially as illustrated in the accompanying representation. The features of the frame, electronics housing, linkages, drives, motors and gearboxes (20, 21, 23, 25, 27, 29) of the jig concentrator do not form part of the design and are disclaimed.



21: F2020/01134 22: 2020-08-19 23:
43: 2021-04-21
52: Class 15 24: Part F
71: PULSATING JIGS INTERNATIONAL (PTY) LTD
54: JIG CONCENTRATOR

57: The design is applied to a jig concentrator. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the jig concentrator, substantially as illustrated in the accompanying representation. The features of the frame, electronics housing, linkages, drives, motors and gearboxes (20, 21, 23, 25, 27, 29) of the jig concentrator do not form part of the design and are disclaimed.

21: F2020/01149 22: 2020-08-24 23:
43: 2021-04-21
52: Class 29 24: Part F
71: Endless Summer Technologies CC
54: RESPIRATORY MASK

57: The novelty of this design resides in the shape and configuration of a RESPIRATORY MASK substantially as shown in the drawings.

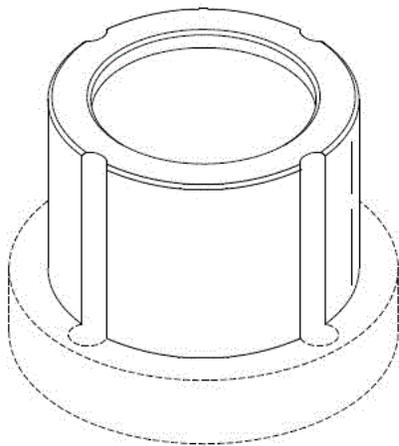


21: F2020/01151 22: 2020-08-25 23:

43: 2020-08-25
 52: Class 15 24: Part F
 71: JANSSEN, Cornelius Johannes

54: NOSE BUSH

57: The design is for a bush made from cast iron or steel having a substantially circular cylindrical body defining an inner bore about a longitudinal axis and a peripheral flange which extends radially away from the body. The flange includes four angularly spaced apart mounting holes. At an end of the body opposing the flange, the body has an inner periphery which forms a shoulder. An outer wall of the body includes four, longitudinally extending concave indentations which corresponding with or are in register with the mounting holes. The indentations provide room for receiving a head of a mounting bolt through the respective mounting holes.



Three-dimensional view from above

21: F2020/01155 22: 2020-08-26 23:
 43: 2021-04-22
 52: Class 25. 24: Part F
 71: KIESER, HENDRIK GEORG

54: A wind protector

57: The design relates to a wind protector. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: F2020/01194 22: 2020-09-03 23:
 43: 2021-04-22
 52: Class 7 24: Part F
 71: Abdul Razak Esakjee, uTyala STEM Institute

54: BOWL

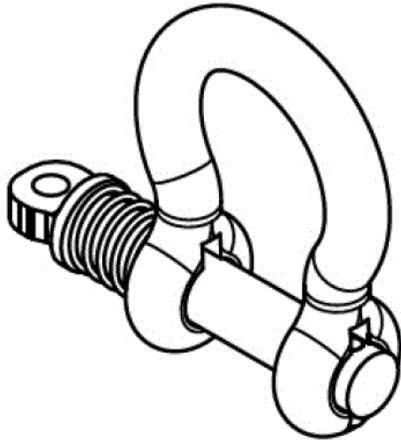
57: The design relates to a Bowl. The features of the design are those of shape and/or pattern and/or configuration.



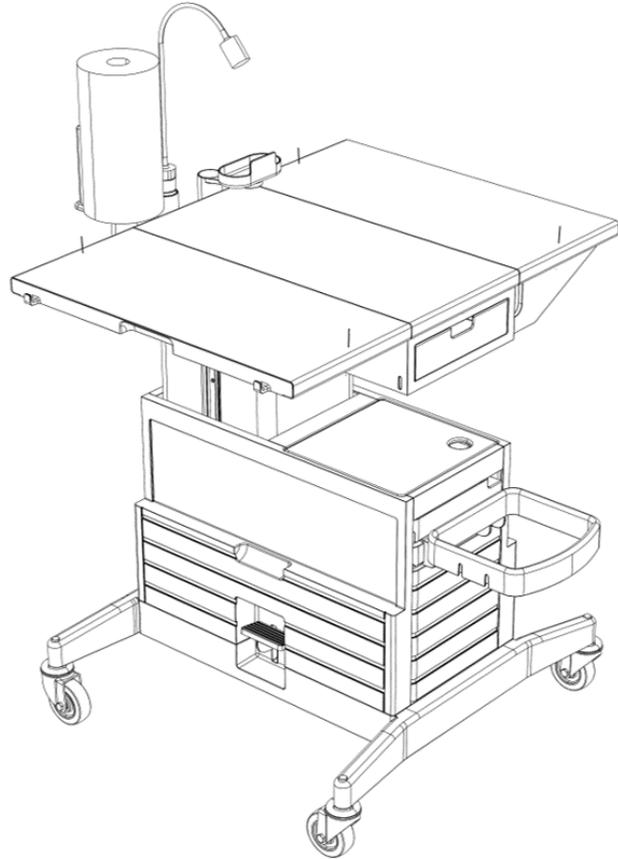
21: F2020/01208 22: 2020-09-04 23:
 43: 2021-04-22
 52: Class 8 24: Part F
 71: BROWN, Samuel, Jackson, Charles
 33: NZ 31: 427220 32: 2020-03-06

54: A BOW SHACKLE

57: The drawing shows a perspective view of a bow shackle in accordance with the present design in a closed position showing the overall appearance thereof.



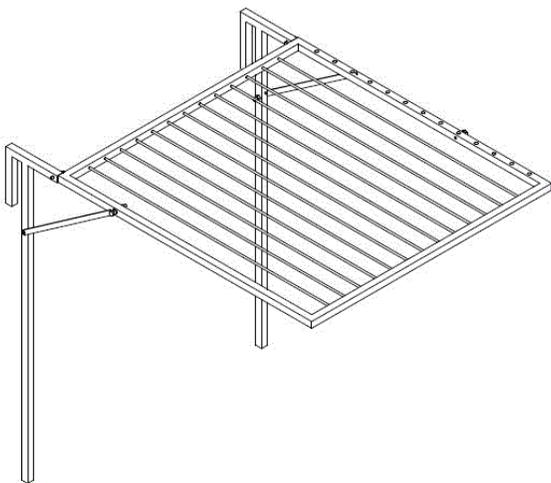
57: The design is applied to a cart. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the cart, substantially as illustrated in the accompanying representation.



21: F2020/01216 22: 2020-09-09 23:
43: 2020-09-09
52: Class 7 24: Part F
71: NASCIMENTO, Linda Ann

54: DRYING RACK

57: The design is applied to a drying rack. The features of the design for which protection is claimed include the shape and/or configuration and/or ornamentation of a drying rack substantially as shown in the accompanying representations.



Three-dimensional view in an open position

21: F2020/01226 22: 2020-09-10 23:
43: 2021-04-22
52: Class 08 24: Part F
71: MOULDMAN DESIGN & DISTRIBUTION (PTY) LTD

54: A BRACKET FOR FASTENING A PIPE TO A SUPPORT STRUCTURE

57: The novelty in the design as applied to a bracket for fastening a pipe to a support structure (commonly known as a holderbat) resides in the shape and/or configuration of the bracket substantially as shown in the accompanying drawings, it being a definitive feature of the design that the bracket is of a single piece construction.

21: F2020/01223 22: 2020-09-10 23:
43: 2021-04-22
52: Class 12 24: Part F
71: CHANNEL PRODUCTS, INC.
33: US 31: 29/727,533 32: 2020-03-11

54: CART

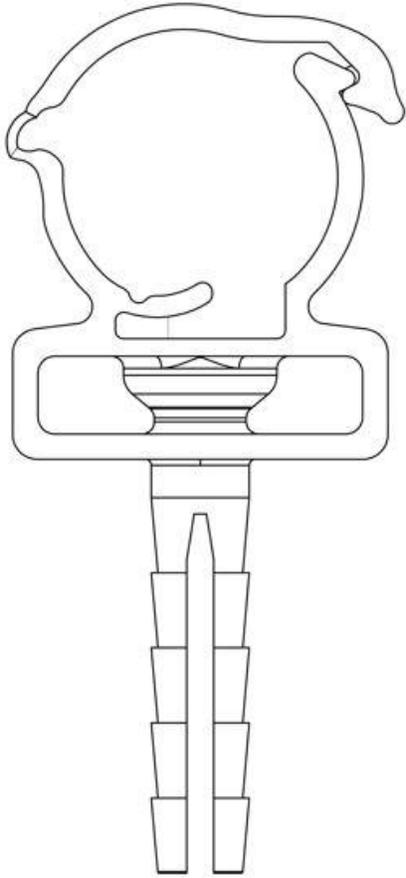


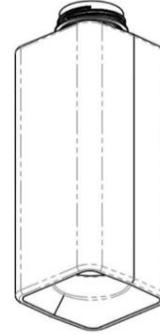
Figure 1

Front view of the bracket in the closed position

71: DUBE, Alexander Memory

54: MODULAR CONTAINER

57: The novelty of this design resides in the shape and configuration of a MODULAR CONTAINER substantially as shown in the drawings.



21: F2020/01261 22: 2020-09-21 23:

43: 2021-05-24

52: Class 09 24: Part F

71: DUBE, Alexander Memory

54: MODULAR CONTAINER

57: The novelty of this design resides in the shape and configuration of a MODULAR CONTAINER substantially as shown in the drawings.

21: F2020/01259 22: 2020-09-21 23:

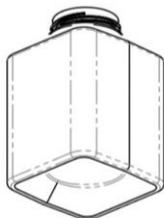
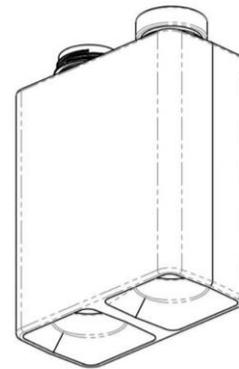
43: 2021-05-24

52: Class 09 24: Part F

71: DUBE, Alexander Memory

54: MODULAR CONTAINER

57: The novelty of this design resides in the shape and configuration of a MODULAR CONTAINER substantially as shown in the drawings.



21: F2020/01262 22: 2020-09-21 23:

43: 2021-05-24

52: Class 09 24: Part F

71: DUBE, Alexander Memory

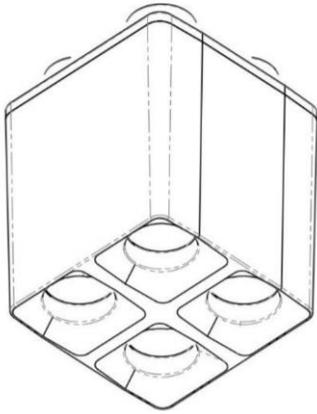
54: MODULAR CONTAINER

57: The novelty of this design resides in the shape and configuration of a MODULAR CONTAINER substantially as shown in the drawings.

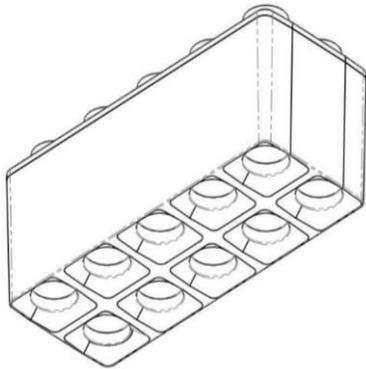
21: F2020/01260 22: 2020-09-21 23:

43: 2021-05-24

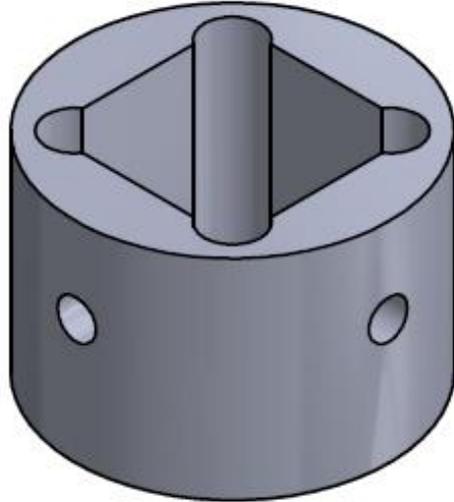
52: Class 09 24: Part F



21: F2020/01263 22: 2020-09-21 23:
 43: 2021-05-24
 52: Class 09 24: Part F
 71: DUBE, Alexander Memory
54: MODULAR CONTAINER
 57: The novelty of this design resides in the shape and configuration of a MODULAR CONTAINER substantially as shown in the drawings.



21: F2020/01266 22: 2020-09-22 23:
 43: 2021-05-19
 52: Class 03 24: Part F
 71: Cape Umbrellas
54: BUSH FOR UMBRELLA
 57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a bush, said bush used in an umbrella as shown in the accompanying representations

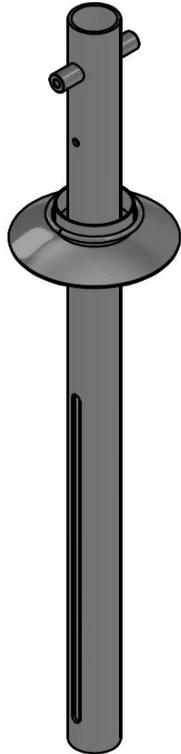


21: F2020/01268 22: 2020-09-22 23:
 43: 2021-06-02
 52: Class 03 24: Part F
 71: Cape Umbrellas
54: BUSH FOR UMBRELLA
 57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a bush, said bush used in an umbrella as shown in the accompanying representations



21: F2020/01270 22: 2020-09-22 23:
 43: 2021-05-24
 52: Class 03 24: Part F
 71: Cape Umbrellas
54: TUBE FOR UMBRELLA
 57: The features of the design for which novelty is claimed are the shape and / or configuration and / or

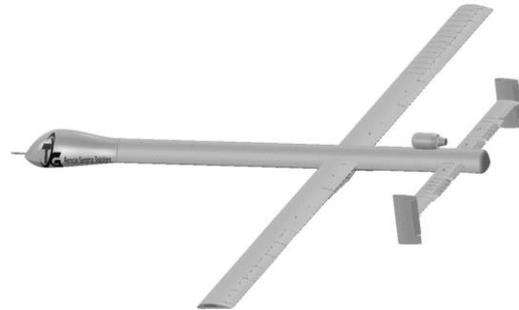
pattern of a tube, said tube used in an umbrella as shown in the accompanying representations



43: 2021-04-30
52: Class 12 24: Part F
71: Cungu Kamau

54: DRONE

57: The design relates to a Drone. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01289 22: 2020-09-25 23:

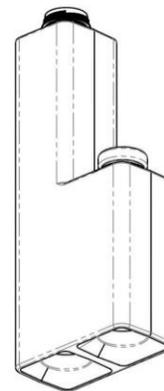
43: 2021-05-24

52: Class 09 24: Part F

71: DUBE, Alexander Memory

54: MODULAR CONTAINER

57: The novelty of this design resides in the shape and configuration of a MODULAR CONTAINER substantially as shown in the drawings.



21: F2020/01272 22: 2020-09-22 23:

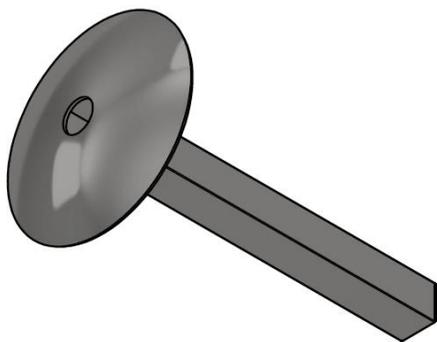
43: 2021-06-02

52: Class 03 24: Part F

71: Cape Umbrellas

54: DOME FOR UMBRELLA

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a dome, said dome used in an umbrella as shown in the accompanying representations



21: F2020/01290 22: 2020-09-25 23:

43: 2021-05-24

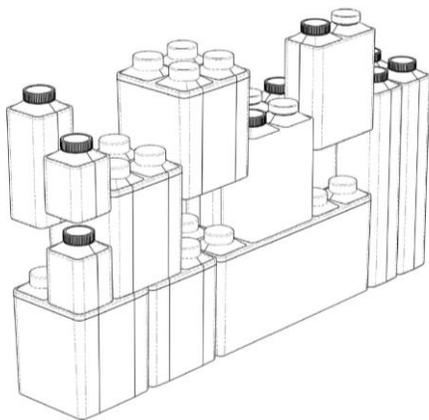
52: Class 25 24: Part F

71: DUBE, Alexander Memory

54: SET OF MODULAR BUILDING COMPONENTS

57: The novelty of this design resides in the shape and configuration of a SET OF MODULAR BUILDING COMPONENTS substantially as shown in the drawings.

21: F2020/01273 22: 2020-09-23 23:



21: F2020/01339 22: 2020-10-08 23:
43: 2021-05-19
52: Class 08 24: Part F
71: DE KOCK, Jean-Pierre

54: PLANT TRAINING HOOK

57: The design is for a plant training hook that forms a tight recess and an open, tapering recess, open to opposing sides of the hook. The plant training hook has a cross-sectional profile that flares outwards towards a bottom surface and the flaring profile provides a pinching grip in the tight recess and a gentler grip in the open tapering recess.



21: F2020/01356 22: 2020-10-13 23:
43: 2021-05-19
52: Class 6 24: Part F
71: Glen Clifton Kruger
54: TABLE

57: The design relates to a Table. The features of the design are those of shape and/or pattern and/or configuration.



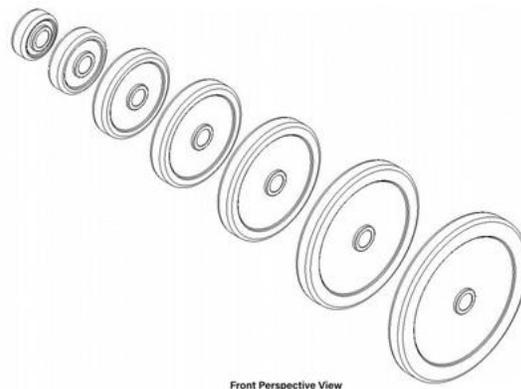
21: F2020/01361 22: 2020-10-15 23:
43: 2021-05-19

52: Class 21 24: Part F

71: DU TOIT, Francois George

54: SET OF EXERCISE WEIGHTS

57: The design relates to a Set of exercise weights. The features of the design are those of shape and/or pattern and/or configuration.



Front Perspective View

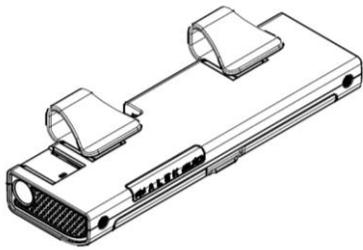
21: F2020/01373 22: 2020-10-21 23:
43: 2021-05-24

52: Class 23 24: Part F

71: THIBAUD, Hugh, HAMANN, Eric, CREED,
Gregory Edward

**54: VEHICLE INTERIOR SPACE UV
DECONTAMINATION SYSTEM**

57: The novelty of this design resides in the shape and configuration of a VEHICLE INTERIOR SPACE UV DECONTAMINATION SYSTEM substantially as shown in the drawings.



52: Class 25 24: Part F

71: Louwrens Olivier

54: INSULATOR

57: The design relates to a Insulator. The features of the design are those of shape and/or pattern and/or configuration.

21: F2020/01404 22: 2020-10-29 23:

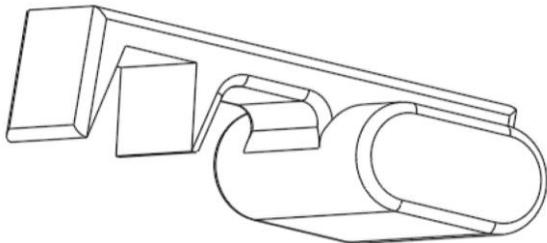
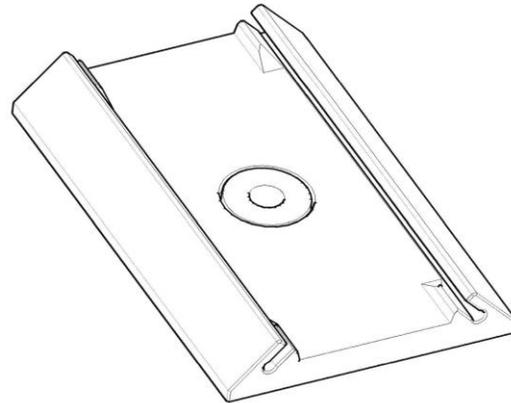
43: 2021-06-09

52: Class 24 24: Part F

71: Adewale Olukayode Sodade

54: ANTI-BRUXISM DEVICE

57: The design relates to a ANTI-BRUXISM DEVICE. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01541 22: 2020-11-27 23:

43: 2021-06-08

52: Class 22 24: Part F

71: Eagle Eye Bird Control Trust

54: BIRD REPELLENT DEVICE

57: The design relates to a Bird repellent device. The features of the design are those of shape and/or pattern and/or configuration.

21: F2020/01497 22: 2020-11-19 23:

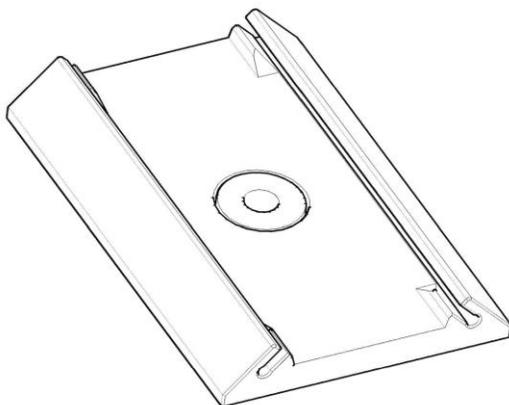
43: 2021-06-02

52: Class 12 24: Part F

71: Louwrens Olivier

54: INSULATOR

57: The design relates to a Insulator. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01498 22: 2020-11-19 23:

43: 2021-06-02

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.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

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No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The patent restoration under application no: **2017/03974** was advertised in the May 2021 journal with an incorrect date of lapse which appeared as **09/06/2017** instead of **26/12/2019**. **This restoration should** have appeared as the one below: However the publication date will remain the **26 May 2021** and the opposition period remain to run from **26 May 2021**.

Notice is hereby given **KONINKJLIKE PHILLIPS NV OF ADAMS & ADAMS, 1140 PROSPECT ROAD, PRETORIA, 0001** that made application for the Restoration of the Patent granted to said **KONINKJLIKE PHILLIPS** an invention **METHOD FOR ENCODING, VIDEO PROCESSOR, METHOD FOR DECODING, VIDEO DECODER** numbered **2017/03974** dated **09/06/2017** which became void **26/12/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof.

The patent application number **2017/03662** was advertised in the **April 2021 journal** without a drawing and it's being re-advertised in the **June 2021 journal** and as a result **its publication in the April 2021 journal is null and void** and the new valid publication date will be **30/06/2021**.

The patent application number **2019/08254** was advertised in the **July 2020 journal** with an old abstract which was not amended and this application should have appeared as the one below however the publication date will remain the **29/07/2020**.

21: **2019/08254**. 22:2019/12/11. 43: 2020/06/11

51: H04W

71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

72: TANG, Hai

54: **CHANNEL RESOURCE SET INDICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE**

00: -

A method for indicating a channel resource, a terminal device and a network device are provided. The method includes that: at least two resource sets are determined, the at least two resource sets at least including a first resource set and a second resource set and different resource sets corresponding to different Demodulation Reference Signal (DMRS) mapping types or corresponding scheduling types respectively; and a first resource from one resource set of the at least two resource sets is determined. Respective resource scheduling flexibility of each scheduling type may be improved, higher resource utilization rate and transmission performance for channel transmission are achieved, and a higher signaling overhead is avoided.

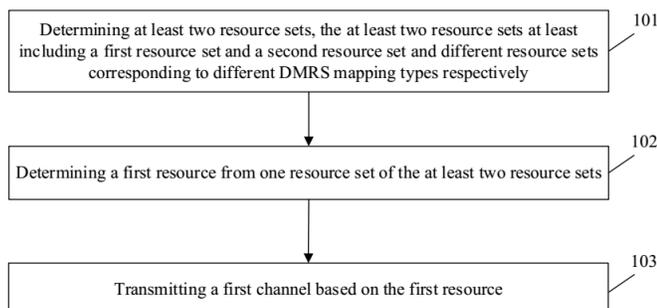


FIG. 1

DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for June 2021

Number of Advertised Patents: 429

Application Number	Patent Title	Filing Date
2013/05221	PROCESS	1/26/2012 1
2014/06967	ANTI SEZ6 ANTIBODIES AND METHODS OF USE	9/23/2014 1
2014/07121	COMPOSITIONS AND USES OF ANTIMICROBIAL MATERIALS WITH TISSUE-COMPATIBLE PROPERTIES	3/15/2013 1
2015/01674	USE OF SEMAPHORIN-4D BINDING MOLECULES TO PROMOTE NEUROGENESIS FOLLOWING STROKE	3/11/2015 1
2015/03627	A BUILDING BLOCK	5/22/2015 1
2015/05468	TOFACITINIB ORAL SUSTAINED RELEASE DOSAGE FORMS	3/12/2014 1
2015/06465	PHARMACEUTICAL PREPARATION	4/15/2014 1
2015/07831	PARTIAL NITRATION OF GLYCEROL	10/21/2015
2015/08055	A DRILL RIG	10/29/2015
2016/00528	COMBINATION OF EPIGENETIC FACTORS AND BISPECIFIC COMPOUNDS TARGETING CD33 AND CD3 IN THE TREATMENT OF MYELOID LEUKEMIA	9/15/2014 1
2016/03792	SESAME OIL BASED INJECTION FORMULATIONS	6/3/2016 12
2016/06081	HAIR STYLING DEVICE	2/3/2014 12
2016/07384	PHARMACEUTICAL COMBINATIONS FOR TREATING CANCER	10/26/2016
2016/07494	HONEYCOMB STRUCTURE COMPRISING A CEMENT SKIN COMPOSITION WITH CRYSTALLINE INORGANIC FIBROUS MATERIAL	10/31/2016
2016/08865	ULTRA RELIABLE LINK DESIGN	12/22/2016
2017/00422	METHODS FOR HYDROLYSING LIGNOCELLULOSIC MATERIAL	7/10/2015 1
2017/00540	INSTRUMENT FOR ANALYZING BIOLOGICAL SAMPLES AND REAGENTS	7/28/2015 1
2017/00730	BCMA CHIMERIC ANTIGEN RECEPTORS	1/30/2017 1
2017/00865	METHOD FOR THE MANUFACTURE AND/OR STORAGE OF A LIQUID PROVIDED FOR DRINKING CONSUMPTION, LIQUID CONTAINER PROVIDED FOR PERFORMING THE METHOD, AND USE OF THE LIQUID CONTAINER IN THE METHOD	2/3/2017 12
2017/01792	PROCESSES FOR PRODUCING LOW NITROGEN METALLIC CHROMIUM AND CHROMIUM-CONTAINING ALLOYS AND THE RESULTING PRODUCTS	10/5/2015 1
2017/01901	CATALYST WITH IMPROVED HYDROTHERMAL STABILITY	3/17/2017 1
2017/01949	NOVEL CHIRAL SYNTHESIS OF N-ACYL-(3-SUBSTITUTED)-(8-SUBSTITUTED)-5,6-DIHYDRO-[1,2,4]TRIAZOLO[4,3-A]PYRAZINES	9/25/2015 1
2017/02152	KIT FOR RADIOLABELLING WITH 68GA COMPRISING A METAL INHIBITOR	7/28/2015 1
2017/02191	NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS	10/15/2015

Application Number	Patent Title	Filing Date
2017/02585	COMPOSITIONS AND METHODS FOR INCREASING IRON INTAKE IN A MAMMAL	9/15/2015 1
2017/03290	METHODS FOR TUMOR TREATMENT USING CD3XCD20 BISPECIFIC ANTIBODY	11/17/2015
2017/03336	NOVEL PRODUCTS AND METHODS	5/15/2017 1
2017/03662	A TRANQUILIZER GUN	5/29/2017 1
2017/04634	ANTI-HISTAMINE FOR USE IN TREATMENT OF BREAST CANCER	1/19/2016 1
2017/04867	ON-DEMAND SYSTEM FOR DRAWING AND PURIFYING WELL WATER	7/18/2017 1
2017/05596	MULTI-FUNCTIONAL CONNECTOR, DRILL HEAD, AND METHOD	8/17/2017 1
2017/06440	GENE THERAPY TO IMPROVE VISION	9/22/2017 1
2017/06702	LOW DENSITY CARBON FIBERS FILLED MATERIALS	5/20/2016 1
2017/06802	VEHICLE VENTILATION SYSTEM (VARIANTS)	4/14/2016 1
2017/07404	TYPE III SECRETION SYSTEM TARGETING MOLECULES	10/31/2017
2017/07519	COMMUNICATION SYSTEM, COMMUNICATION METHOD, TERMINAL AND NETWORK NODE	11/7/2017 1
2017/07806	ANTHELMINTIC DEPSIPEPTIDE COMPOUNDS	5/20/2016 1
2017/07892	VIDEO LARYNGOSCOPES	5/17/2016 1
2017/07903	ANTI-CD40 ANTIBODIES AND USES THEREOF	11/21/2017
2017/07978	AUTHENTICATION METHODS AND SYSTEMS	5/27/2016 1
2017/08106	RARE EARTH METAL AND ITS PURIFICATION METHOD	11/29/2017
2017/08385	POOL CLEANING APPARATUS WITH A FILTRATION DEVICE THAT CAN BE EXTRACTED VIA A LATERAL FACE	12/11/2017
2017/08460	NEW HYDROXYESTER DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	12/13/2017
2017/08554	LONG-TERM EVOLUTION COMPATIBLE VERY NARROW BAND DESIGN	12/15/2017
2017/08558	HIGH-BAND SIGNAL GENERATION	12/15/2017
2017/08595	STUFFY NOSE DEBLOCKING COMPOSITION HAVING ANTIVIRAL ACTIVITY	7/12/2016 1
2017/08653	PEPTIDE MACROCYCLES AGAINST ACINETOBACTER BAUMANNII	12/19/2017
2017/08709	DIRECT CURRENT METER AND METHOD OF USE	12/20/2017
2018/00214	SYSTEM AND METHOD FOR CLEANING WINE AND/OR A BARREL CONTAINING WINE	8/18/2016 1
2018/01709	GROOVED NOODLES	3/13/2018 1
2018/01905	SYSTEMS AND METHODS FOR ESTIMATING DEGREE OF COMPLIANCE WITH RECOMMENDED CROP PROTOCOL	3/22/2018 1
2018/01907	METHOD AND SYSTEM FOR MANAGING EXCEPTIONS DURING RECONCILIATION OF TRANSACTIONS	3/22/2018 1
2018/02711	CHANNEL TYPE INDUCTION FURNACE	7/15/2016 1
2018/03135	A WIRELESS IDENTIFICATION SENSOR AND SERVER APPARATUS	5/14/2018 1
2018/03136	A WIFI HOTSPOT AUTHENTICATION SENSOR	5/14/2018 1
2018/03137	A CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR	5/14/2018 1

Application Number	Patent Title	Filing Date
2018/03139	A TRACKING CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR	5/14/2018 1
2018/03141	A LOCATION ACTIVATED WIFI AUTHENTICATION SENSOR	5/14/2018 1
2018/03142	A MESSAGE FORWARDING WIFI AUTHENTICATION SENSOR	5/14/2018 1
2018/03145	A CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR FOR ACTIVATING EMERGENCY NOTIFICATION APPARATUS	5/14/2018 1
2018/03151	A PERSONNEL TRACKING CONTROLLER UNIT HAVING A WIFI AUTHENTICATION SENSOR	5/14/2018 1
2018/03153	AN EMERGENCY CONTROLLER DOCKING APPARATUS HAVING A WIFI AUTHENTICATION SENSOR	5/14/2018 1
2018/03658	AIR DIFFUSION DUCT FOR AERATION SYSTEM, IN PARTICULAR FOR A RAILWAY VEHICLE	6/1/2018 12
2018/04104	METHOD FOR PRODUCING A ULTRA HIGH STRENGTH GALVANNEALED STEEL SHEET AND OBTAINED GALVANNEALED STEEL SHEET	12/29/2015
2018/04155	COMBINATION THERAPY	12/21/2016
2018/04523	NARROW BAND PHYSICAL RANDOM ACCESS CHANNEL FREQUENCY HOPPING PATTERNS AND DETECTION SCHEMES	7/6/2018 12
2018/04570	LIQUID PACKAGING PAPER	2/1/2017 12
2018/04769	BENZENESULFONYL-ASYMMETRIC UREAS AND MEDICAL USES THEREOF	7/17/2018 1
2018/05874	DEVICE, POWER TRANSMITTER AND METHODS FOR WIRELESS POWER TRANSFER	8/31/2018 1
2018/05945	LINER FOR IMPACT RESISTANT GRP PIPES	3/9/2017 12
2018/06561	HEPATITIS B ANTIVIRAL AGENTS	10/3/2018 1
2018/06629	TRISPECIFIC AND/OR TRIVALENT BINDING PROTEINS	4/13/2017 1
2018/06806	METHOD FOR THE TREATMENT OR PREVENTION OF OSTEOARTHRITIS.	10/12/2018
2018/07168	METHOD AND DEVICE FOR ORIENTING AN UMBILICATED FRUIT, IN PARTICULAR FOR PACKAGING SAME	10/26/2018
2018/07174	METHODS OF TREATMENT OF DISEASES IN WHICH IL-13 ACTIVITY IS DETRIMENTAL USING ANTI-IL-13 ANTIBODIES	10/26/2018
2018/07460	IMPROVEMENTS IN OR RELATING TO NUCLEIC ACID AMPLIFICATION PROCESSES	6/30/2017 1
2018/07532	A CONTAINER	11/8/2018 1
2018/07892	CRYSTAL FORMS OF CRISABOROLE IN FREE FORM AND PREPARATION METHOD AND USE THEREOF	11/22/2018
2018/07955	METHOD MAINTAINING IRON HOMEOSTASIS WITH SHOGAOLS	4/26/2017 1
2018/08083	PHARMACEUTICAL COMPOSITION CONTAINING A TETRAHYDROFOLIC ACID	11/29/2018
2018/08084	PHARMACEUTICAL COMPOSITION CONTAINING A TETRAHYDROFOLIC ACID	11/29/2018
2018/08316	MOSQUITO REPELLENT AND METHOD FOR ELIMINATING MOSQUITOS	6/6/2017 12
2018/08402	SYSTEM AND METHOD FOR AUTOMATED TABLE GAME	5/16/2017 1

Application Number	Patent Title	Filing Date
	ACTIVITY RECOGNITION	
2019/00044	TUBERCULOSIS COMPOSITIONS AND METHODS OF TREATING OR PREVENTING TUBERCULOSIS	6/16/2017 1
2019/00067	CATALYST COMPRISING SMALL 10-RING ZEOLITE CRYSTALLITES AND A METHOD FOR PRODUCING HYDROCARBONS BY REACTION OF OXYGENATES OVER SAID CATALYST	9/28/2017 1
2019/00117	PROCESS FOR PRODUCTION OF HIGH SILICA CONTENT ZEOLITE FROM FLY ASH	6/22/2017 1
2019/00122	PHOTOCATALYTIC COMPOSITIONS, AND USES THEREOF FOR OBTAINING WATER PAINTS	6/27/2017 1
2019/00132	WIND-GATHERING BLADE FOR COOLING BRAKE PAD	1/9/2019 12
2019/00276	HIGH FREQUENCY HIGH POWER CONVERTER SYSTEM	6/29/2017 1
2019/00308	SYSTEMS AND METHODS FOR CONFIGURING MEASUREMENT GAPS AND SOUNDING REFERENCE SIGNAL SWITCHING	9/29/2017 1
2019/00313	OPTICS AL-MIRROR WITH HIGH VOLUME FRACTION SICP/AL COMPOSITE-TITANIUM ALLOY-BISMUTHATE GLASS METAL PLUS DIELECTRIC MULTIPLE FILMS AND METHOD FOR MANUFACTURING THE SAME	4/14/2017 1
2019/00334	AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS, AND APPARATUS	7/24/2017 1
2019/00349	SELECTING RADIO RESOURCE	7/3/2017 12
2019/00399	MINE SUPPORT BLOCK	1/21/2019 1
2019/00423	USE OF NEUROKININ-1 ANTAGONISTS TO TREAT A VARIETY OF PRURITIC CONDITIONS	6/28/2017 1
2019/00456	MODIFIED LIGAND-GATED ION CHANNELS AND METHODS OF USE	7/7/2017 12
2019/00483	ANTI-CD19 ANTIBODY FORMULATIONS	6/27/2017 1
2019/00508	CATALYST, ACRYLIC ACID PRODUCTION METHOD, AND CATALYST PRODUCTION METHOD	7/24/2017 1
2019/00528	COMBINATION OF FXR AGONISTS	9/12/2017 1
2019/00543	ZEOLITE ADSORBENT IN THE FORM OF LOW-TORTUOSITY AGGLOMERATES	6/28/2017 1
2019/00608	IMPROVED UPLINK RESOURCE ALLOCATION AMONG DIFFERENT OFDM NUMEROLOGY SCHEMES	7/26/2017 1
2019/00663	DATA COMMUNICATION METHOD AND DEVICE	1/31/2019 1
2019/00668	LAUNDRY COMPOSITION	7/13/2017 1
2019/00669	DIAGNOSIS, TREATMENT AND PREVENTION OF NEUROTENSIN RECEPTOR-RELATED CONDITIONS	8/2/2017 12
2019/00696	MANUFACTURE OF TUNGSTEN MONOCARBIDE (WC) SPHERICAL POWDER	7/21/2017 1
2019/00720	PACKAGING MATERIAL COMPRISING MAGNETIZED PORTIONS AND METHOD FOR MAGNETIZING THE MATERIAL	7/12/2017 1
2019/00745	BRICK/BLOCK LAYING MACHINE INCORPORATED IN A VEHICLE	7/14/2017 1
2019/00746	BOOM FOR MATERIAL TRANSPORT	7/14/2017 1
2019/00763	TOILET PAPER DISPENSER	2/6/2019 12
2019/00778	BASE STATION APPARATUS, TERMINAL APPARATUS, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT	7/7/2017 12
2019/00787	Pit Latrine	2/7/2019 12

Application Number	Patent Title	Filing Date
2019/00859	METHOD OF ESTABLISHING THE PRESENCE OF TAXIS AND/OR COMMUTERS IN AN AREA AND SYSTEM THEREFOR	2/11/2019 1
2019/00860	INDAZOLE COMPOUNDS FOR USE IN TENDON AND/OR LIGAMENT INJURIES	9/21/2017 1
2019/00861	AZA¿INDAZOLE COMPOUNDS FOR USE IN TENDON AND/OR LIGAMENT INJURIES	9/21/2017 1
2019/00896	PROCESS FOR THE PRODUCTION OF AN ORGANIC ACID FROM A LIGNOCELLULOSIC FEEDSTOCK	2/12/2019 1
2019/00909	METHODS FOR DETECTING MYCOBACTERIA WITH SOLVATOCHROMIC DYE CONJUGATES	7/31/2017 1
2019/00920	COMPOUNDS AND METHODS FOR REDUCING TAU EXPRESSION	9/29/2017 1
2019/00923	A PROCESS FOR PURIFYING PROPYLENE OXIDE	2/13/2019 1
2019/00941	COMPOSITIONS AND METHODS OF REPLICATION DEFICIENT ADENOVIRAL VECTORS FOR VACCINE APPLICATIONS	7/21/2017 1
2019/00945	METHODS FOR DETECTING AAV	8/14/2017 1
2019/00949	A PROCESS FOR PREPARING PROPYLENE OXIDE	2/14/2019 1
2019/00968	METHODS FOR EFFICIENT SIGNALING IN V2X COMMUNICATIONS	8/11/2017 1
2019/00977	FILTRATION SYSTEM	2/15/2019 1
2019/00995	MOBILE PHONE AND BACK PANEL THEREFOR, TRANSFORMABLE INTO RETRACTABLE SELFIE STICK	7/31/2017 1
2019/01016	CHEMICALLY MODIFIED SINGLE¿STRANDED RNA¿EDITING OLIGONUCLEOTIDES	8/31/2017 1
2019/01034	MACROCYCLE KINASE INHIBITORS	7/27/2017 1
2019/01061	2'-SUBSTITUTED-N6-SUBSTITUTED PURINE NUCLEOTIDES FOR RNA VIRUS TREATMENT	9/6/2017 12
2019/01070	PYRAZOLOPYRIDINE DERIVATIVE HAVING GLP-1 RECEPTOR AGONIST EFFECT	2/19/2019 1
2019/01084	CLASSIFYING APPARATUS, SYSTEMS AND METHODS	7/21/2017 1
2019/01098	SYSTEMS AND METHODS FOR NUTRIENT RECOVERY AND USE	7/21/2017 1
2019/01131	LARGE-SCALE PROCESSING OF DATA RECORDS WITH EFFICIENT RETRIEVAL	2/22/2019 1
2019/01150	CONTROL OF APERIODIC SIGNALLING OF SRS FOR WIRELESS SYSTEMS	9/29/2017 1
2019/01174	ON¿LOAD TAP CHANGER, REGULATING TRANSFORMER WITH ON¿LOAD TAP CHANGER, AND METHOD FOR CONNECTING AN ON¿LOAD TAP CHANGER	9/7/2017 12
2019/01186	TRANSMISSION DEVICE AND TRANSMISSION METHOD	8/28/2017 1
2019/01209	INHALATION MONITORING SYSTEM AND METHOD	12/4/2015 1
2019/01224	MONOMETALLIC RHODIUM-CONTAINING FOUR-WAY CONVERSION CATALYSTS FOR GASOLINE ENGINE EMISSIONS TREATMENT SYSTEMS	7/25/2017 1
2019/01263	CRYSTALS OF CYCLIC AMINE DERIVATIVE AND PHARMACEUTICAL USE THEREOF	8/25/2017 1
2019/01316	AUTOCLAVE AND METHOD FOR REMOVING SALT FROM AUTOCLAVE	2/14/2018 1
2019/01317	METHOD OF RECOVERING IRON FROM ZINC	2/2/2018 12

Application Number	Patent Title	Filing Date
	SULPHATE SOLUTION	
2019/01417	METHOD OF THREE-DIMENSIONAL GROUTING IN ARGILLACEOUS FAULT ZONES	3/7/2019 12
2019/01470	BASE STATION APPARATUS, TERMINAL APPARATUS AND COMMUNICATION METHOD	8/29/2017 1
2019/01476	POROUS GRAPHENE-BASED FILMS AND PROCESSES FOR PREPARING THE FILMS	8/29/2017 1
2019/01490	ANTIBODY FORMULATIONS	10/30/2012
2019/01502	RADIO ACCESS NETWORK NODE AND A CORE NETWORK NODE FOR PAGING A WIRELESS DEVICE IN A WIRELESS COMMUNICATION NETWORK	8/18/2017 1
2019/01527	OVEN COMBINATION	3/12/2019 1
2019/01559	INTEGRATED WET SCRUBBING SYSTEM	8/31/2016 1
2019/01599	MULTIMODAL POLYETHYLENE PIPE	9/7/2017 12
2019/01600	MULTIMODAL POLYETHYLENE PIPE	9/7/2017 12
2019/01601	MULTIMODAL POLYETHYLENE COMPOSITION AND A FILM COMPRISING THE SAME	9/8/2017 12
2019/01602	MULTIMODAL POLYETHYLENE CONTAINER	9/11/2017 1
2019/01603	HIGH PERFORMANCES MULTIMODAL ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	9/11/2017 1
2019/01604	MULTIMODAL POLYETHYLENE FILM	9/8/2017 12
2019/01628	CONVERSION OF ALCOHOLS TO LINEAR AND BRANCHED FUNCTIONALIZED ALKANES	3/15/2019 1
2019/01641	PROCESS FOR THE PRODUCTION OF GLYCOLIC ACID	9/15/2017 1
2019/01643	AIR-SUPPORTED BELT CONVEYORS AND SYSTEMS AND METHODS OF USING SAME	9/15/2017 1
2019/01658	THERAPEUTIC COMPRESSION APPARATUS AND METHODS OF USE	3/18/2019 1
2019/01820	ACETOLACTATE DECARBOXYLASE VARIANTS HAVING IMPROVED SPECIFIC ACTIVITY	9/12/2017 1
2019/02015	A FISCHER¿TROPSCH CATALYST BODY	10/27/2017
2019/02147	CONTAINERIZED DESALINATION SYSTEM	9/15/2017 1
2019/02298	METHOD AND DEVICE FOR WRITING STORED DATA INTO STORAGE MEDIUM BASED ON FLASH MEMORY	9/5/2017 12
2019/02470	SYSTEM AND METHOD FOR INFORMATION PROTECTION	11/27/2018
2019/02474	SYSTEM AND METHOD FOR IMPROVING SECURITY OF SMART CONTRACT ON BLOCKCHAIN	11/27/2018
2019/02477	OPERATION OBJECT PROCESSING METHOD AND APPARATUS	9/13/2017 1
2019/02861	N-{3-[3-CYCLOPROPYL-5-(2-FLUORO-4-IODOPHENYLAMINO)-6,8-DIMETHYL-2,4,7-TRIOXO-3,4,6,7-TETRAHYDRO-2H-PYRIDO[4,3-D]PYRIMIDIN-1-YL]-PHENYL}-CYCLOPROPANECARBOXAMIDE DIMETHYL SULPHOXIDE SOLVATE AS AN MEK1/2 INHIBITOR	5/7/2019 12
2019/02864	DEFORMABLE GASKET FOR THE SEALED PASSAGE OF A FLUID THROUGH A WALL	5/7/2019 12
2019/02866	ORDER INFORMATION DETERMINING METHOD AND APPARATUS	5/7/2019 12
2019/02977	DATA TRANSMISSION METHOD AND APPARATUS	5/13/2019 1
2019/03200	SUPPORT STRUCTURE FOR A VEHICLE WITH A CARGO	5/21/2019 1

Application Number	Patent Title	Filing Date
	CRANE	
2019/03423	METHOD, APPARATUS AND ELECTRONIC DEVICE FOR SERVICE EXECUTION BASED ON BLOCKCHAIN	5/29/2019 1
2019/03459	METHODS AND A COMPUTING DEVICE FOR DETERMINING WHETHER A MARK IS GENUINE	5/30/2019 1
2019/04117	WASTE PICKERS TROLLEY	6/25/2019 1
2019/04167	SECURING DEVICE	6/26/2019 1
2019/04272	MUNITION AND LOGISTICS CONCEPT FOR, IN PARTICULAR, ARTILLERY PROJECTILES	6/28/2019 1
2019/04281	MONITORING, AUDITING AND/OR DETERMINING DEPTH OF OR IN A BOREHOLE	6/28/2019 1
2019/04283	TIME SYNCHRONIZATION SYSTEM AND TRANSMISSION DEVICE	6/28/2019 1
2019/04928	DATA ISOLATION IN A BLOCKCHAIN NETWORK	7/26/2019 1
2019/04961	METHOD, DEVICE AND KIT FOR DETECTING FETAL GENE MUTATION	12/25/2017
2019/05016	DEVICE FOR PRODUCING AND TREATING A GAS STREAM THROUGH AN AUTOMATICALLY CONTROLLED VOLUME OF LIQUID	7/30/2019 1
2019/05065	NOVEL ESTER COMPOUNDS, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF	7/31/2019 1
2019/05383	WATERTUBE PANEL PORTION AND A METHOD OF MANUFACTURING A WATERTUBE PANEL PORTION IN A FLUIDIZED BED REACTOR	8/14/2019 1
2019/05519	IMPROVED ANTIGEN BINDING RECEPTOR FORMATS	8/21/2019 1
2019/05542	MICROWAVE EGG PASTEURIZATION METHOD AND APPARATUS	8/22/2019 1
2019/05544	MODIFIED HAEMOGLOBIN PROTEINS	8/22/2019 1
2019/06123	DRILL ASSEMBLY AND METHOD OF USING SAME	9/17/2019 1
2019/06662	SUSPENSION COMPRISING ALUMINUM HYDROXIDE AND MAGNESIUM HYDROXIDE AND PREPARATION METHOD THEREFOR	4/12/2018 1
2019/06768	TRACK PART AND METHOD FOR PRODUCING A TRACK PART	10/14/2019
2019/06821	ANTI-JAGGED1 ANTIGEN BINDING PROTEINS	10/16/2019
2019/06848	NOVEL PYRROLOPYRIDINE DERIVATIVE, METHOD FOR PRODUCING SAME, AND USE THEREOF	10/17/2019
2019/06877	ISOMERICALLY PURE 18F-LABELLED TETRAHYDROFOLATES	10/18/2019
2019/06878	PROCESS FOR MAKING TABLET USING RADIOFREQUENCY AND LOSSY COATED PARTICLES	10/18/2019
2019/06884	POSITIVE LOCK SYSTEM FOR RESTRAINED JOINTS OF DUCTILE IRON SPUN PIPES AND FITTINGS	3/20/2018 1
2019/06954	BTLA AGONIST ANTIBODIES AND USES THEREOF	10/22/2019
2019/07030	MONITORING SYSTEM FOR DETECTING DEGRADATION OF A PROPULSION SUBSYSTEM	10/24/2019
2019/07051	METHOD AND SYSTEM FOR ONLINE MONITORING AND OPTIMIZATION OF MINING AND MINERAL PROCESSING OPERATIONS	10/25/2019
2019/07150	SUBSTITUTED N-(-1,3,4-OXADIAZOLE-2-YL)ARYL CARBOXAMIDES AND THE USE THEREOF AS HERBICIDES	10/29/2019

Application Number	Patent Title	Filing Date
2019/07232	RECAPTURE OF REMOTELY-TRACKED COMMAND GUIDED VEHICLE INTO THE TRACKER'S FIELD-OF-VIEW	10/30/2019
2019/07374	A PROCESS FOR MANUFACTURING TUBELESS TYRE HAVING INTEGRATED ENVELOPE(S) AND A PRODUCT THEREOF	5/16/2018 1
2019/07423	SYMMETRICALLY DYNAMIC EQUALIZED VOLUME AND PRESSURE AIR MANAGEMENT SYSTEM	6/15/2018 1
2019/07433	IMPROVED LIGHTING APPARATUS	11/8/2019 1
2019/07477	PRIMER PROBE SET FOR IDENTIFYING IVORY, APPLICATION, IDENTIFICATION METHOD AND KIT THEREOF	11/7/2019 1
2019/07516	RADIO LINK RECOVERY FOR USER EQUIPMENT	11/13/2019
2019/07572	METHOD FOR AERIAL SPRAYING OPERATION OF COTTON DEFOLIATING CHEMICAL IN ONE-FILM THREE-ROW CULTIVATION MODE	11/15/2019
2019/07643	AEROSOL GENERATING SYSTEM WITH MULTIPLE INDUCTOR COILS	8/9/2018 12
2019/07863	METHOD FOR TREATING WASTEWATER CONTAINING NITROGEN AND PHOSPHORUS AND METHOD FOR SYNTHESIZING MAGNESIUM AMMONIUM PHOSPHATE	11/27/2019
2019/07970	TUBULAR WATERWALL STRUCTURE IN A FLUIDIZED BED REACTION CHAMBER AND A FLUIDIZED BED REACTION CHAMBER	11/29/2019
2019/08038	METHOD FOR REMOVAL OF IMPURITIES FROM BACTERIAL CAPSULAR POLYSACCHARIDE BASED PREPARATIONS	5/3/2018 12
2019/08157	METHOD AND ELECTRONIC DEVICE FOR DETERMINING THE TEMPERATURE OF A METAL STRIP, RELATED CONTROL METHOD, COMPUTER PROGRAM, CONTROL APPARATUS AND HOT ROLLING INSTALLATION	6/26/2017 1
2019/08483	TIRE HEALTH SENSOR ASSEMBLY	12/19/2019
2019/08506	LOUVRE SHUTTER SYSTEM	3/16/2018 1
2019/08548	Selection and Signaling of Motion Vector (MV) Precisions	12/20/2019
2020/00056	ENGINEERED MICROBE-TARGETING MOLECULES AND USES THEREOF	7/18/2012 1
2020/00103	HIGH-EFFICIENCY ENERGY-SAVING SEWAGE LOW-PRESSURE EVAPORATION SYSTEM AND WORKING METHOD THEREOF	1/8/2020 12
2020/00168	FLOW SENSING ARRANGEMENT FOR SPIROMETER AND METHOD THEREOF	7/26/2018 1
2020/00171	ADHERENCE-TRACKING AND MONITORING DEVICE FOR METERED-DOSE INHALER	7/11/2018 1
2020/00172	ELECTROMECHANICAL BREATH ACTUATED INHALER	7/11/2018 1
2020/00204	PLASTICS LID ARRANGEMENT	1/13/2020 1
2020/00211	METHOD AND SYSTEM FOR AUTOMATICALLY GENERATING HOLE LOCATION MAP FOR GOLF COURSE	6/19/2017 1
2020/00328	AUTOMATIC VALVE	4/4/2018 12
2020/00475	GYMNASTIC APPARATUS	1/22/2020 1
2020/00637	A GAS-FILTERING SYSTEM AND METHOD	1/30/2020 1
2020/00705	ASSEMBLED STEEL PIPE CONCRETE BI-BLOCK	6/14/2018 1

Application Number	Patent Title	Filing Date
	RAILWAY SLEEPER	
2020/00706	BALLASTLESS TRACK BASE PLATE CONNECTING STRUCTURE AND BALLASTLESS TRACK HAVING SAME	6/14/2018 1
2020/00889	AN IMMUNOGENIC COMPOSITION HAVING IMPROVED STABILITY, ENHANCED IMMUNOGENICITY AND REDUCED REACTOGENICITY AND PROCESS FOR PREPARATION THEREOF	7/13/2018 1
2020/00962	HIGH FREQUENCY OPTICAL SWITCH AND FABRICATION METHODS THEREOF	7/24/2018 1
2020/01166	AVERAGE FLUID FLOW RATE MEASUREMENT SYSTEM IN STRAIGHT-LINE DISTANCE	8/1/2018 12
2020/01241	TORQUE SPINDLE SUITABLE FOR TORQUEING ROOF BOLTS	2/27/2020 1
2020/01325	REMOVAL OF BACTERIA FROM DRINKING WATER VIA FILTRATION	8/1/2018 12
2020/01355	AZOLE DERIVATIVE, INTERMEDIATE COMPOUND, METHOD FOR PRODUCING AZOLE DERIVATIVE, AGENT FOR AGRICULTURAL AND HORTICULTURAL USE, AND MATERIAL PROTECTION AGENT FOR INDUSTRIAL USE	11/13/2018
2020/01619	CLARIFIER	7/19/2018 1
2020/01628	LOADING METHOD AND DEVICE FOR TRAILING EDGE COMPONENT OF WIND TURBINE BLADE	3/16/2020 1
2020/01658	PRIMER, KIT FOR DETECTING ASPIRIN RESISTANCE-RELATED GENE POLYMORPHISM AND APPLICATION THEREOF	3/17/2020 1
2020/01773	IMPROVED DESIGN OF AN ETHYLENE OLIGOMERIZATION/TRIMERIZATION/TETRAMERIZATION REACTOR	3/20/2020 1
2020/01790	AUTOMATIC FOREIGN MATTER REMOVAL APPARATUS FOR ELECTRONIC FENCE	11/29/2017
2020/01801	METHOD FOR FERTILIZING CORN IN SEMI-HUMID REGION FOR ONE TIME	3/23/2020 1
2020/01802	SYSTEM AND METHOD OF TRACKING FLAT SURFACES OF A COMPONENT OF A DRILLING MACHINE	3/23/2020 1
2020/01861	DEVICE AND METHOD FOR PREPARING TRUE TRIAXIAL GEOTECHNICAL SPECIMENS WITH DIFFERENT FLAW GEOMETRIC PARAMETERS	3/24/2020 1
2020/01887	COMPOSITION FOR PREVENTING OR TREATING TNF-RELATED DISEASES, CONTAINING NOVEL DERIVATIVE AS ACTIVE INGREDIENT, AND METHOD FOR INHIBITING TNF ACTIVITY BY USING SAME	3/24/2020 1
2020/01889	SEED TRANSPORTATION SYSTEM AND METHOD	3/24/2020 1
2020/01973	GOAL SPORT CHECKING SYSTEM AND METHOD	5/4/2020 12
2020/02027	METHOD FOR PREPARING ARTOCARPUS NITIDUS SUBSP. LINGNANENSIS FRUIT POWDER SPRAY	5/4/2020 12
2020/02230	DEVICE AND METHOD FOR CAPACITIVELY MEASURING A FILL LEVEL OF A FILLING MEDIUM	5/4/2020 12
2020/02265	MACHINE GUN	5/4/2020 12
2020/02266	POWDER MADE OF INSECTS, FOR THE PREVENTION OR REDUCTION OF STRESS IN FISH BEING FARMED	5/4/2020 12
2020/02272	DEVICE THAT CAN BE HELD ON ONE HAND FOR ELECTRICALLY ASSISTED SKIN TREATMENT,	5/4/2020 12

Application Number	Patent Title	Filing Date
	ADDITIONAL PART FOR SAID DEVICE AND BLISTER FOR SAID ADDITIONAL PART	
2020/02276	CREAMERS COMPOSITIONS WITH ULTRA-HIGH OLEIC OILS	5/4/2020 12
2020/02285	ENCAPSULATION SYSTEM AND METHOD OF INSTALLING A ROCK BOLT	5/4/2020 12
2020/02363	MODULATORS OF THE CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR PROTEIN AND METHODS OF USE	5/4/2020 12
2020/02375	MACHINE GUN	5/4/2020 12
2020/02380	HOISTING ARRANGEMENT OF A HOIST OF A CRANE	5/4/2020 12
2020/02419	BITTER GANODERMA LUCIDUM SPORE POWDER AND PREPARATION METHOD THEREOF	6/8/2018 12
2020/02443	METHOD FOR OPTIMIZING RADIX ACONITI LATERALIS PROCESSING PROCESS	5/5/2020 12
2020/02475	VOLVARIELLA VOLVACEA CULTIVATION MATERIAL, AND PREPARATION METHOD AND USE THEREOF	5/6/2020 12
2020/02526	NEW ALCOXYAMINO DERIVATIVES FOR TREATING PAIN AND PAIN RELATED CONDITIONS	10/26/2018
2020/02568	ANTI-PD-L1 ANTIBODY AND IL-7 FUSIONS	1/25/2019 1
2020/02755	DRILL HEAD POSITION DETERMINATION SYSTEM	5/14/2020 1
2020/02968	PREPARATION METHOD OF LIGNIN-RESIN SUPER-HYDROPHOBIC INSULATED CORROSION-RESISTANT COATING	5/13/2020 1
2020/02969	PREPARATION METHOD OF LIGNIN-CHITOSAN BASED FLUORIDE-FREE HIGH-STRENGTH SUPER-HYDROPHOBIC PAPER	5/13/2020 1
2020/03045	SOIL TREATMENT COMPOSITION	3/25/2019 1
2020/03088	TREATMENT OF TUBERCULOSIS	5/27/2020 1
2020/03089	AN ADAPTOR ASSEMBLY FOR A MANHOLE-TYPE ACCESS SYSTEM, AND SUCH AN ACCESS SYSTEM	5/27/2020 1
2020/03113	METHOD OF SYNTHESISING 6-DEOXY-6-AMINO-ß-D-GLUCOPYRANOSIDE-CONTAINING POLYMERS	11/21/2018
2020/03134	COPPER ELECTROWINNING PRE-CELL SETTLER	5/27/2020 1
2020/03149	ORAL DELIVERY OF GLP-1 PEPTIDE ANALOGS	5/27/2020 1
2020/03153	FURNACE SIDEWALL WITH SLAG RETAINERS	5/27/2020 1
2020/03157	AROMATIC-BASED POLYETHERAMINE ALKOXYLATES	5/27/2020 1
2020/03172	METHOD AND DEVICE FOR MEASURING AN ULTRASOUND PARAMETER OF A VISCOELASTIC MEDIUM	5/28/2020 1
2020/03277	TIME-RESOLVED FLUORESCENCE IMMUNOCHROMATOGRAPHY TEST PAPER CARD FOR DETECTING BUTRALIN	6/2/2020 12
2020/03319	AMMUNITION BOX AND AMMUNITION MAGAZINE INTENDED TO RECIEVE SUCH A BOX	11/25/2018
2020/03341	HAND EXTENSION TOOL	6/4/2020 12
2020/03344	MODULAR LOCKER UNIT FOR CHARGING ELECTRONIC DEVICES	6/4/2020 12
2020/03349	STEEL SHEET HAVING EXCELLENT TOUGHNESS, DUCTILITY AND STRENGTH, AND MANUFACTURING METHOD THEREOF	12/18/2018
2020/03368	SIMULATION TEST METHOD FOR DYNAMICALLY	6/5/2020 12

Application Number	Patent Title	Filing Date
	MONITORING THE COAL RESERVOIR SENSITIVITY AND THE CONTROL OF DRAINAGE AND EXTRACTION	
2020/03373	COMBINATIONS OF INSECTICIDAL POLYPEPTIDES HAVING IMPROVED ACTIVITY SPECTRUM AND USES THEREOF	11/28/2018
2020/03382	ANTI-PD-L1/ANTI-CD47 BISPECIFIC ANTIBODY WITH STRUCTURE LIKE NATURAL ANTIBODY AND IN FORM OF HETERODIMER AND PREPARATION THEREOF	12/1/2018 1
2020/03401	PREPARATION METHOD OF 4D CHITOSAN-BASED THERMOSENSITIVE HYDROGEL	6/8/2020 12
2020/03402	INSULATED ELECTROSTATICALLY-ASSISTED SPRAYING EXTENDER	11/26/2018
2020/03410	CORRUGATED MEDICAL TUBING SYSTEM HAVING FITTING WITH ANTI-TAMPER SLEEVE	1/8/2019 12
2020/03428	USE OF A LIGNIN FRACTION AS A HUMAN AND ANIMAL FOOD SUPPLEMENT INGREDIENT	12/11/2018
2020/03437	PET FOOD MACHINE	6/9/2020 12
2020/03444	MULTIFUNCTIONAL DRESSING TABLE	12/27/2018
2020/03457	AN ECONOMICAL PROCESS FOR PREPARATION OF ANAEROBIC GRANULES FOR WASTE WATER TREATMENT	10/31/2018
2020/03471	MODIFIED POLYPEPTIDE WITH ATTENUATED ACTIVITY OF CITRATE SYNTHASE AND METHOD FOR PRODUCING L-AMINO ACIDS USING SAME	6/10/2020 1
2020/03497	WATER-RESISTANT WINDING WIRE AND MANUFACTURING METHOD THEREOF	6/11/2020 1
2020/03498	LARGE-SCALE PUMP-MOTOR AUTOMATIC DOCKING DEVICE	6/11/2020 1
2020/03499	SUBMERSIBLE ELECTRIC PUMP	6/11/2020 1
2020/03524	BREAKABLE LOCKING CAP FOR A CONTAINER COMPRISING A NECK	6/12/2020 1
2020/03549	METHOD FOR BUTT LASER WELDING TWO METAL SHEETS WITH FIRST AND SECOND FRONT LASER BEAMS AND A BACK LASER BEAM	12/19/2018
2020/03550	A HUMAN BODY COMPOSITION PREDICTION METHOD BASED ON IMPROVED ADAPTIVE GENETIC ALGORITHM	4/3/2020 12
2020/03552	A HUMAN BODY FEATURE PARAMETER SELECTION METHOD BASED ON THE COMBINATION OF IMPROVED RRELIEFF AND MRMR	4/3/2020 12
2020/03553	OPTIMIZED HOST/VECTOR SYSTEM FOR PRODUCING PROTECTIVE MONO- AND MULTIVALENT SUBUNIT VACCINES ON THE BASIS OF THE YEAST KLUYVEROMYCES LACTIS	12/19/2018
2020/03566	SELF-SERVE SNOW CONE MAKER AND DISPENSER	6/15/2020 1
2020/03611	COMPONENT FOR A LIGHT FITTING	6/17/2020 1
2020/03709	ALUMINUM CONTAINER CONTAINING DICARBONATE	6/19/2020 1
2020/03723	TILE, IN PARTICULAR CARPET TILE, AND COVERING OF SUCH TILES	1/9/2019 12
2020/03743	POWER SHIFT TRANSMISSION WITH ELECTRIC POWER ASSIST	6/22/2020 1
2020/03748	WINDOW CURTAIN	6/22/2020 1
2020/03771	CAST IRON INOCULANT AND METHOD FOR	6/22/2020 1

Application Number	Patent Title	Filing Date
	PRODUCTION OF CAST IRON INOCULANT	
2020/03773	CAST IRON INOCULANT AND METHOD FOR PRODUCTION OF CAST IRON INOCULANT	6/22/2020 1
2020/03787	LIVER SPECIFIC DELIVERY-BASED ENTECAVIR PRODRUG, NUCLEOSIDE CYCLIC PHOSPHATE COMPOUND, AND APPLICATION THEREOF	12/21/2018
2020/03788	COMPOSITION BASED ON PROBIOTICS AND USES THEREOF	12/6/2018 1
2020/03859	METHOD AND DEVICE FOR DETECTING THE POSITION OF A SEAL	1/17/2019 1
2020/03878	SYNCHRONIZED DISPLAY OF SCREEN CONTENT ON NETWORKED DEVICES	12/20/2018
2020/03886	INSULIN INJECTION PEN	6/24/2020 1
2020/03943	ANALYSIS OF POROUS MATERIAL USING LABORATORY CALIBRATED TEST APPARATUS AND SAMPLE DATA	6/29/2020 1
2020/03977	FLOOR PLANKS WITH A CORE COMPRISING CALCIUM CARBONATE AND METHODS OF MANUFACTURING THEREOF	1/25/2019 1
2020/04014	METHOD FOR SEPARATING POLYPHENOLIC COMPOUNDS FROM BIOMASS AND RESULTING PRODUCTS	7/1/2020 12
2020/04069	THERMOSOLAR HOT-WATER PREPARATION SYSTEM	1/15/2018 1
2020/04149	A MANUFACTURING PROCESS OF PRESS HARDENED PARTS WITH HIGH PRODUCTIVITY	3/5/2019 12
2020/04167	COOLING ELEMENT FOR USE IN A COOLING DEVICE OF A CLOSED-CIRCUIT BREATHING DEVICE	7/8/2020 12
2020/04201	DIAMETER DETERMINING METHOD AND SYSTEM FOR OLD URBAN WATER SUPPLY PIPELINE	7/9/2020 12
2020/04282	TAP HEAD HAVING A 3/2-WAY VALVE	9/13/2018 1
2020/04365	FOLDOUT TRAVEL TRAILER	7/16/2020 1
2020/04762	WALL MOUNTED FOLD UP SEAT	7/31/2020 1
2020/05069	PROVISION OF DIFFERENT NETWORK USAGE ADVANCE SERVICES TO DIFFERENT CATEGORIES OF SUBSCRIBERS	8/17/2020 1
2020/05070	TYPE CLASSIFICATION-BASED PROVISIONING OF NETWORK USAGE ADVANCES IN A MOBILE NETWORK	8/17/2020 1
2020/05412	HOSE COUPLING SEAL	1/22/2019 1
2020/05474	HYDRO LUBRICATED SCREW TYPE AIR COMPRESSOR	2/25/2020 1
2020/05623	A FRESH AGRICULTURAL PRODUCT RECOMMENDATION METHOD BASED ON MULTI-GRANULARITY FUZZY DATA	9/10/2020 1
2020/05624	A DOUBLE-LAYER PIPELINE CONVENIENT TO CLEAN AND A DESCALING DEVICE AND A DESCALING METHOD	9/10/2020 1
2020/05860	STRUCTURE OF RIGID FRAME BRIDGE HAVING ABUTMENTS AND CONSTRUCTION METHOD THEREFOR	12/3/2018 1
2020/06277	MOUNTING DEVICE FOR BUILDING SURFACES HAVING ELONGATED MOUNTING SLOT	10/9/2020 1
2020/06385	INFERIOR-ELIMINATING AND SUPERIOR-SELECTING BREEDING METHOD FOR SYNERGISTICALLY IMPROVING WHEAT YIELD AND QUALITY	10/21/2019

Application Number	Patent Title	Filing Date
2020/06386	CENTRAL NERVE MAGNETIC STIMULATION DEVICE AND HEALTHCARE OR MEDICAL INSTRUMENT HAVING SAME	3/26/2019 1
2020/06469	A DISPLAY AND CONTROL DEVICE OF AN AUTOMATIC TEMPERATURE-CONTROLLED TOBACCO LEAF DRYER	10/19/2020
2020/06471	LIBRARY HERRINGBONE AUTOMATIC ALIGNMENT LOADING TROLLEY	10/19/2020
2020/06472	A MONITORING SYSTEM FOR THE AUTOMATIC TEMPERATURE CONTROL TOBACCO LEAF DRYER	10/19/2020
2020/06473	DETECTION SYSTEM FOR MEASURING PIPELINE SIZE PARAMETERS AND DETECTION METHOD THEREFOR	4/2/2019 12
2020/06566	A DATA CLASSIFICATION METHOD BASED ON FRACTIONAL SEQUENTIAL MINIMAL OPTIMIZATION ALGORITHM	10/22/2020
2020/06567	DISEASE DATA CLASSIFICATION METHOD BASED ON FRACTIONAL ORDER C-SUPPORT VECTOR MACHINE (SVM)	10/22/2020
2020/06606	ACTIVE CONTROL SYSTEM FOR ROLLING BEHAVIORS OF HIGH-SPEED TRAINS	10/23/2020
2020/06900	VARIABLE-PRESSURE DESOLVENTIZING METHOD	12/12/2019
2020/06979	A SIMPLE, COST-EFFECTIVE AND AMPLIFICATION-BASED WHOLE GENOME SEQUENCING APPROACH	11/10/2020
2020/07024	TEST DEVICE AND METHOD FOR SIMULATING BREAKAGE OF ROOF ROCK BEAM	4/11/2019 1
2020/07122	INSPECTION AND CONSTRUCTION METHOD FOR COMPOSITE CEMENT-SOIL PILE	9/19/2019 1
2020/07123	METHOD FOR CONSTRUCTING FULL-CASING FULL-ROTARY INTERNAL-RAMMING PILE	9/19/2019 1
2020/07376	TRACKING METHOD AND SYSTEM	11/26/2020
2020/07526	A COMPREHENSIVE INTERPOLATION METHOD FOR DAILY PRECIPITATION DATA	12/3/2020 1
2020/07527	METHOD FOR DETECTING ZEN TOXIN IN WHEAT SCAB GRAINS	12/3/2020 1
2020/07696	NITROGEN AND PHOSPHORUS SYNERGIST CONTAINING EARTHWORM HYDROLYSATE AND PREPARATION METHOD AND APPLICATION THEREOF	12/9/2020 1
2020/07862	A PLANT DATABASE USED FOR REMEDIATION OF HEAVY METAL CONTAMINATED SOIL	12/17/2020
2020/07864	DENTAL FLOSS STICK	12/17/2020
2020/07866	CYP18A1 GENE AND ITS APPLICATIONS OF ERICERUS PELA CHAVANNES	12/17/2020
2020/07867	PASSIVE THERMAL STORAGE DOOR OR WINDOW FOR OPEN-AIR CULTURAL RELICS BASED ON PHASE CHANGE MATERIALS	12/17/2020
2020/07870	CAMPHOR TREE BRANCH AND LEAF SEPARATION EQUIPMENT	12/17/2020
2020/07915	A SHUNT-TYPE INJECTION-SUCTION HYDRAULIC IMPACTOR	12/18/2020
2020/08007	A DYNAMIC DETECTION AND ITS ASSESSMENT METHOD OF IMPACT RISK BASED ON RESPONSE PARAMETERS WHILE DRILLING	12/21/2020
2021/00067	POLYCARBOXYLATE SUPERPLASTICIZER AND	12/11/2020

Application Number	Patent Title	Filing Date
	METHOD FOR MAKING SAME	
2021/00638	COUPLED HEAT-MOISTURE-STRESS MODEL TEST CHAMBER	1/28/2021 1
2021/00745	PREPARATION PROCESS OF NANOMETER DELAY COMPOSITION USED FOR DETONATOR	2/3/2021 12
2021/01631	BIDDING METHOD AND SYSTEM	9/6/2019 12
2021/01771	JUDGMENT AND CONTROL METHOD OF IMPACT TENSION DAMAGE OF ANCHOR RODS OR ANCHOR CABLES IN DEEP TUNNELS	3/16/2021 1
2021/01808	INTELLIGENT FIRE PRE-WARNING SYSTEM AND METHOD BASED ON VISUAL PERCEPTION THREE-DIMENSIONAL RECONSTRUCTION TECHNOLOGY	12/31/2020
2021/01809	WINE JAR MOVING DEVICE	12/31/2020
2021/01810	AUTOMATIC SEALING DEVICE OF WINE JAR	12/31/2020
2021/02055	INTEGRATION MODULE OF MILLIMETER-WAVE AND NON-MILLIMETER-WAVE ANTENNAS	3/26/2021 1
2021/02641	PEANUT PICKING DEVICE	4/20/2021 1
2021/02642	METHOD FOR RECYCLING SPENT SELECTIVE CATALYTIC REDUCTION (SCR) CATALYSTS	4/21/2021 1
2021/02688	A HOUSEHOLD LIGHTING DEVICE	4/22/2021 1
2021/02733	COMPOSITE FLOCCULANT FOR REMOVING PHOSPHORUS AND TURBIDITY OF WASTE WATER, PREPARATION METHOD THEREFOR AND USE THEREOF	10/31/2019
2021/02747	FULLY-AUTOMATIC INTELLIGENT PH VALUE DETECTION DEVICE	3/18/2021 1
2021/02768	SPLITTING TEST PROBE FOR TESTING TENSILE STRENGTH OF COAL ROCKS, AND ASSEMBLY METHOD	4/23/2021 1
2021/02806	HOLLOW ANCHOR ROD WITH ADJUSTABLE GROUTING HOLES	4/28/2021 1
2021/02821	DIRECT EXPANSION EVAPORATOR WITH VAPOR EJECTOR CAPACITY BOOST	11/6/2019 1
2021/02896	HARD DISK DEVICE BASED ON BLOCKCHAIN	4/8/2021 12
2021/02917	MULTI-WALLED CARBON NANOTUBE COMPOSITE FORM-STABLE PHASE CHANGE MATERIAL, AND PREPARATION METHOD AND USE THEREFOR	7/9/2020 12
2021/02918	CORRECTOR FOR DEVIATION-FREE STEREOTACTIC DEVICE	6/28/2020 1
2021/02919	AUXILIARY APPARATUS WHICH CAN BE USED IN EXAMINATION OF FUNDUS BY SLIT LAMP MICROSCOPE IN COMBINATION WITH FRONT-MOUNTED LENS	4/8/2020 12
2021/02973	DIGITAL VEHICLE DISPLAY SYSTEM, APPARATUS AND METHOD	5/3/2021 12
2021/03004	EFFICIENT SEPARATION, RECYCLING TREATMENT AND CYCLIC UTILIZATION TEST DEVICE FOR COAL-WATER-GAS MIXTURE	4/30/2021 1
2021/03005	GANODERMA LUCIDUM SPORE POWDER FUNCTIONAL CHOCOLATE CHIP AND PREPARATION METHOD THEREOF	4/30/2021 1
2021/03076	USE OF SULFONIC ACIDS IN DRY ELECTROLYTES TO POLISH METAL SURFACES THROUGH ION TRANSPORT	11/6/2019 1
2021/03079	COMPOUND PESTICIDE FORMULATION AND	5/7/2021 12

Application Number	Patent Title	Filing Date
	PRODUCTION PROCESS FOR THE PREVENTION AND CONTROL OF SUGARCANE DISEASES AND PESTS	
2021/03081	METHOD FOR INCREASING ACETATE VOLATILE COMPONENTS IN LULI APPLE FRUITS	5/7/2021 12
2021/03122	PRIMER SET AND KIT FOR SIMULTANEOUSLY IDENTIFYING WILD STRAINS AND GENE-DELETED VACCINE STRAINS OF ASFV	5/10/2021 1
2021/03129	EXTENSIBLE GUIDE FOR A TUBE	3/20/2019 1
2021/03158	UNDERGROUND INTELLIGENT ROUTING INSPECTION UNMANNED AERIAL VEHICLE WITH EXPLOSION-PROOF FUNCTION	5/10/2021 1
2021/03169	A PESTICIDES COMPOUND FERTILIZER FORMULATION AND ITS PRODUCTION METHOD FOR SUGARCANE DISEASE AND PESTS	5/11/2021 1
2021/03170	MONITORING DEVICE AND MONITORING METHOD FOR ROADWAY SURROUNDING ROCK ROOF DISPLACEMENT	5/11/2021 1
2021/03204	A DIGITAL PUBLIC CULTURAL SERVICE MANAGEMENT PLATFORM	5/12/2021 1
2021/03207	MULTI-ANGLE DYNAMIC LOAD EXPERIMENTAL LOADING DEVICE AND EXPERIMENTAL METHOD THEREOF	5/12/2021 1
2021/03305	EXPERIMENTAL METHOD FOR CONTINUOUS SEPARATION OF MIXTURE OF GAS-CONTAINING COAL AND WATER	5/13/2021 1
2021/03366	COMPOSITION FOR TREATING DIABETES BASED ON CHINESE MEDICAL NUTRITION THERAPY AND APPLICATION OF COMPOSITION	10/18/2019
2021/03372	METHOD FOR EVALUATING IMPACT OF HYDRO-JUNCTION ON FISH HABITAT BASED ON IN-SITU TRACE ELEMENTS IN OTOLITH MICRO-AREA	5/19/2021 1
2021/03381	TWO-SIDE UNLOADING HOPPER CAR	12/27/2018
2021/03538	A METHOD OF EXTRACTING XANTHOTOXOL FROM THE ROOT OF ANGELICA DAHURICA	5/25/2021 1
2021/03566	FLOOD ANALYSIS METHOD BASED ON ONE-DIMENSIONAL RIVER NETWORK GENERALIZATION AND HIGH-PERFORMANCE ONE-TWO-DIMENSIONAL COUPLING	5/26/2021 1
2021/03573	METHOD AND DEVICE FOR PLUGGING UNDERGROUND ROADWAY	5/26/2021 1
2021/03574	TENSION FRACTURE SLOPE MEASURING DEVICE	5/26/2021 1
2021/03613	AN EXPERIMENTAL PLATFORM FOR ACCURATE SIMULATION OF FLYING GANGUE DISASTER OF THE STEEPLY INCLINED COAL SEAM AND AN APPLICATION METHOD	5/27/2021 1
2021/03614	A GASIFIER THAT GENERATES POWER FROM COAL AND COAL GANGUE IN THE UNDERGROUND MINE AND A GASIFYING METHOD THEREOF	5/27/2021 1
2021/03615	AN ALERTING DEVICE MONITORING DEFORMATION OF RING MAGLEV ROADWAY	5/27/2021 1
2021/03616	AN APPLICATION METHOD OF AN ANTI-IMPACT AND CO-RELIEVING ANNULAR SUPPORT IN DEEP WELL	5/27/2021 1

Application Number	Patent Title	Filing Date
	ROADWAY	
2021/03619	TEA DRINKING CAPSULE AVAILABLE FOR TEA DRINKING MACHINE	5/27/2021 1
2021/03660	DURABLE HANDMADE CALLIGRAPHY AND PAINTING PAPER FILLED WITH MICRO-NANO CALCIUM AND PREPARATION METHOD THEREOF	5/28/2021 1
2021/03670	A CONTAINER SEA-RAILWAY COMBINED TRANSPORT SYSTEM BASED ON UNDERGROUND CHANNEL	5/28/2021 1
2021/03707	PROCESS SYSTEM AND CONSTRUCTION METHOD OF SOLID FILLING ALONG FILLING AND RETAINING ROADWAY	5/31/2021 1
2021/03748	MINE SIMILAR SIMULATION 3D PRINTING EXPERIMENT SYSTEM	6/1/2021 12
2021/03749	VARIABLE-ANGLE SIMILAR SIMULATION EXPERIMENT BENCH	6/1/2021 12
2021/03750	A TRACKING-MODEL DUST MASK USED FOR AIR VOLUME AND HUMIDITY ADJUSTMENT IN THE MINE	6/1/2021 12
2021/03751	A DRILLING OPERATION DEVICE OF OUTBURST DANGER PREDICTION ON THE STOPE WORKING PLANE AND A METHOD THEREOF	6/1/2021 12
2021/03752	AUTOMATIC STABILITY MEASURING VEHICLE OF ADVANCE ROADWAY AND APPLICATION METHOD THEREOF	6/1/2021 12
2021/03753	A PUMPED STORAGE POWER GENERATION METHOD OF USING UNDERGROUND GASIFICATION ABANDONED MINES	6/1/2021 12
2021/03754	AN ALKALOID COMPOUND EXTRACTED FROM BANANA BLOSSOMS AND ITS EXTRACTION METHOD	6/1/2021 12
2021/03755	EXPERIMENTAL DEVICE FOR CONTINUOUSLY SEPARATING MIXTURE OF GAS-CONTAINING COAL AND WATER	6/1/2021 12
2021/03756	A DEVICE FOR MULTI-LEVEL COLLECTION OF MARINE POLLUTANTS	6/1/2021 12
2021/03757	A DEVICE FOR MONITORING WATER POLLUTION OF A RIVER CHANNEL	6/1/2021 12
2021/03772	SAFETY CABINET DEVICE, UNLOCKING METHOD, AND UNLOCKING SYSTEM	4/12/2021 1
2021/03779	A METHOD FOR TESTING DAMAGE DEPTHS OF COAL SEAM ROOFS AND COAL SEAM FLOORS AFTER WORKING FACE STOPPING	6/2/2021 12
2021/03803	AUXILIARY CONTROL SYSTEM FOR NUCLEAR POWER PLANTS	6/3/2021 12
2021/03804	A CONTROL METHOD OF A LARGE INCLINED WORKING FACE-ROOF LEAKAGE-COAL WALL SPALLING-BRACKET SLIDING BACKWARDS	6/3/2021 12
2021/03805	A SPECIMEN PREPARATION MOLD FOR A FILLING BODY SIMULATING COMPRESSION AND TAMPING	6/3/2021 12
2021/03830	FULLY AUTOMATIC CHINESE YAM CLEANING, PEELING AND WASHING ALL-IN-ONE MACHINE	11/16/2020
2021/03831	TWO-END REMOVING DEVICE FOR CHINESE YAMS	11/16/2020
2021/03880	3D PRINTING SIMILAR SIMULATION EXPERIMENT OPERATION METHOD	6/7/2021 12

Application Number	Patent Title	Filing Date
2021/03882	PREFABRICATED CEMENT CONCRETE PAVEMENT STRUCTURE WITH PRESTRESS	6/7/2021 12
2021/03884	A TEST DEVICE FOR INSTABILITY MECHANISM MODEL OF COAL PILLAR IN MINING AREA BOUNDARY	6/7/2021 12
2021/03888	BLASTING GROUTING COMBINED SUPPORT METHOD AND SYSTEM FOR END PART OF STEEL PIPE ANCHOR CABLE	6/7/2021 12
2021/03889	AN ABANDONED MINE BASED BIOGAS FERMENTATION-FERTILIZER PREPARATION SYSTEM AND ITS USE METHOD	6/7/2021 12
2021/03921	MODIFIED FUNGUS CHAFF SORBENT AND PREPARATION METHOD THEREOF	6/8/2021 12
2021/03922	A PHOTOELECTRIC DETECTOR	6/8/2021 12
2021/03923	D-INSAR THREE-DIMENSIONAL PREDICTION METHOD FOR FULL-SCALE GRADIENT MINING SUBSIDENCE BASED ON IMPROVED DYNAMIC PREDICTION MODEL CONSTRAINT	6/8/2021 12
2021/03924	DEVICE FOR OBTAINING DATA OF MINING SUBSIDENCE IN MINING AREA	6/8/2021 12
2021/03953	A METHOD FOR PREPARING ARCTIUM LAPPAL FLAVONOIDS BY ENZYME PRETREATMENT COMBINED WITH ULTRASONIC-FLASH EXTRACTION	6/9/2021 12
2021/03954	METHOD FOR ANALYZING SPATIAL-TEMPORAL EVOLUTION LAW OF VOIDS IN COAL SEAM MINING-INDUCED CAVED ZONE AND FRACTURED ZONE	6/9/2021 12
2021/03955	EASILY-OPERABLE DETACHABLE POSITIONING DEVICE	6/9/2021 12
2021/03957	POSTURE ACQUISITION METHOD AND DIGITAL PROTECTIVE CLOTHING CUSTOMIZATION SYSTEM BASED ON METHOD	6/9/2021 12
2021/03959	TEMPERATURE-CONTROLLED MUNICIPAL SOLID WASTE GAS PERMEABILITY COEFFICIENT MEASUREMENT TESTING DEVICES AND METHODS	6/9/2021 12
2021/03970	WIRELESS POSITIONING MODULE, WIRELESS POSITIONING CABLE AND WIRELESS POSITIONING CABLE SYSTEM	4/29/2019 1
2021/03993	COAL-ROCK LIQUID-SOLID COUPLING LOADING EXPERIMENT DEVICE	6/10/2021 1
2021/04101	ELECTRIC STAY WIRE MANUFACTURING DEVICE AND MANUFACTURING METHOD THEREOF	6/15/2021 1

DESIGNS

Advertisement List for June 2021

Number of Advertised Designs: 136

Application Number	Design Articles	Filing Date
A2015/00337	GARBAGE CONTAINER	3/4/2015 12

Application Number	Design Articles	Filing Date
A2019/00587	A GRILL	5/2/2019 12
A2019/00766	EXCAVATOR BUCKETS	6/6/2019 12
A2019/00767	EXCAVATOR BUCKETS	6/6/2019 12
A2019/00768	EXCAVATOR BUCKETS	6/6/2019 12
A2019/00769	EXCAVATOR BUCKETS	6/6/2019 12
A2019/00778	VEHICLE BUMPER	6/7/2019 12
A2019/00876	KNEELER	6/27/2019 1
A2019/01079	A SMOKER`S ACCESSORY	8/7/2019 12
A2019/01097	CARTRIDGES FOR VAPORIZATION DEVICES	8/13/2019 1
A2019/01098	CARTRIDGES FOR VAPORIZATION DEVICES	8/13/2019 1
A2019/01239	DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	8/28/2019 1
A2019/01423	A DRYING RACK	9/26/2019 1
A2019/01424	Bus	9/26/2019 1
A2019/01777	POWER TOOLS	12/11/2019
A2019/01778	POWER TOOLS	12/11/2019
A2020/00005	TOOTHBRUSH HEADS	1/6/2020 12
A2020/00083	AIRCRAFT	1/28/2020 1
A2020/00147	Automobile	2/7/2020 12
A2020/00169	Wheel	2/12/2020 1
A2020/00197	ORAL CARE IMPLEMENTS	2/14/2020 1
A2020/00198	ORAL CARE IMPLEMENTS	2/14/2020 1
A2020/00333	TROLLEY CHASSIS	3/11/2020 1
A2020/00403	ORAL CARE IMPLEMENTS	3/24/2020 1
A2020/00404	ORAL CARE IMPLEMENTS	3/24/2020 1
A2020/00472	TIRES	5/4/2020 12
A2020/00498	Game Table	5/4/2020 12
A2020/00526	MASKS	5/5/2020 12
A2020/00680	AUTOMOBILE	5/29/2020 1
A2020/00686	Automobile	5/29/2020 1
A2020/00829	TIRES	6/15/2020 1
A2020/00835	PACKAGING	6/17/2020 1
A2020/00836	PACKAGING	6/17/2020 1
A2020/00846	DESKS	6/18/2020 1
A2020/00886	AUTOMOBILE	6/24/2020 1
A2020/00889	MULTI-PURPOSE TRAILERS	6/24/2020 1
A2020/01002	CONTAINERS	7/17/2020 1
A2020/01027	CAP	7/27/2020 1
A2020/01035	Sausage Cutters	7/29/2020 1
A2020/01075	Car	8/6/2020 12
A2020/01076	Toy Car	8/6/2020 12
A2020/01083	Storage Container	8/11/2020 1
A2020/01088	LOCATING DEVICE	8/12/2020 1
A2020/01089	LOCATING DEVICE	8/12/2020 1
A2020/01090	LOCATING DEVICE	8/12/2020 1
A2020/01091	LOCATING DEVICE	8/12/2020 1
A2020/01094	BLOCKS	8/12/2020 1
A2020/01095	LOCATING DEVICE	8/12/2020 1
A2020/01096	LOCATING DEVICE	8/12/2020 1
A2020/01097	LOCATING DEVICE	8/12/2020 1

Application Number	Design Articles	Filing Date
A2020/01098	LOCATING DEVICE	8/12/2020 1
A2020/01106	BOTTLES	8/13/2020 1
A2020/01107	BOTTLES	8/13/2020 1
A2020/01112	RECTANGULAR MIRROR FINISH FOOD PREPARATION BOARD	8/14/2020 1
A2020/01156	A billboard	8/26/2020 1
A2020/01164	LAND CRUISER MK2 BULL BAR	8/27/2020 1
A2020/01166	FUEL TANK	8/28/2020 1
A2020/01174	Mobile Phone	9/1/2020 12
A2020/01175	DATE AND/OR TIME INDICATOR	9/2/2020 12
A2020/01215	DRYING RACK	9/9/2020 12
A2020/01219	Automobile	9/10/2020 1
A2020/01220	Front Combination Lamp for an Automobile	9/10/2020 1
A2020/01221	Front Combination Lamp for an Automobile	9/10/2020 1
A2020/01222	Front Bumper for an Automobile	9/10/2020 1
A2020/01225	A BRACKET FOR FASTENING A PIPE TO A SUPPORT STRUCTURE	9/10/2020 1
A2020/01229	CART	9/11/2020 1
A2020/01230	CARS	9/11/2020 1
A2020/01242	Food Processing System	9/17/2020 1
A2020/01243	Juicer	9/17/2020 1
A2020/01244	Food Processing System	9/17/2020 1
A2020/01245	Pitcher	9/17/2020 1
A2020/01265	BUSH FOR UMBRELLA	9/22/2020 1
A2020/01267	BUSH FOR UMBRELLA	9/22/2020 1
A2020/01269	TUBE FOR UMBRELLA	9/22/2020 1
A2020/01271	DOME FOR UMBRELLA	9/22/2020 1
A2020/01288	SOLAR GEYSER	9/25/2020 1
A2020/01371	DOMESTIC SODA-WATER PREPARING DEVICES	10/20/2020
A2020/01542	BIRD REPELLENT DEVICE	11/27/2020
A2021/00446	EXTERNAL PULSE GENERATOR	4/26/2021 1
A2021/00447	TRANSCUTANEOUS ELECTRODES	4/26/2021 1
A2021/00448	AURICULAR PERCUTANEOUS ELECTRODE	4/26/2021 1
F2016/00117	A PIVOTABLE SHELF EDGE DISPLAY SYSTEM	1/28/2016 1
F2019/00877	KNEELER	6/27/2019 1
F2019/01435	A DRYING RACK	9/26/2019 1
F2019/01618	COMPRESSORS (PART OF-)	10/30/2019
F2020/00166	HAIR DRYER	2/12/2020 1
F2020/00173	SCAFFOLDING BRACKET	2/13/2020 1
F2020/00176	A PANEL	2/13/2020 1
F2020/00320	TOILET CISTERN LID	3/10/2020 1
F2020/00334	TROLLEY CHASSIS	3/11/2020 1
F2020/00376	MASK	3/19/2020 1
F2020/00511	HYGIENE KEY	5/4/2020 12
F2020/00527	Masks	5/5/2020 12
F2020/00681	AUTOMOBILE	5/29/2020 1
F2020/00920	Ploughshare Blade	6/30/2020 1
F2020/00921	Face Shield	6/30/2020 1
F2020/00976	MULTI-TOOL	7/14/2020 1

Application Number	Design Articles	Filing Date
F2020/01003	CONTAINERS	7/17/2020 1
F2020/01005	Spacer Devices for Face Masks	7/17/2020 1
F2020/01021	AN ELECTRICAL CONNECTOR	7/24/2020 1
F2020/01036	Sausage Cutters	7/29/2020 1
F2020/01084	FENCE POST	8/11/2020 1
F2020/01085	FENCE POST CLIP	8/11/2020 1
F2020/01129	PORTABLE GATE	8/19/2020 1
F2020/01130	JIG CONCENTRATOR	8/19/2020 1
F2020/01132	JIG CONCENTRATOR	8/19/2020 1
F2020/01133	JIG CONCENTRATOR	8/19/2020 1
F2020/01134	JIG CONCENTRATOR	8/19/2020 1
F2020/01149	RESPIRATORY MASK	8/24/2020 1
F2020/01151	NOSE BUSH	8/25/2020 1
F2020/01155	A wind protector	8/26/2020 1
F2020/01194	BOWL	9/3/2020 12
F2020/01208	A BOW SHACKLE	9/4/2020 12
F2020/01216	DRYING RACK	9/9/2020 12
F2020/01223	CART	9/10/2020 1
F2020/01226	A BRACKET FOR FASTENING A PIPE TO A SUPPORT STRUCTURE	9/10/2020 1
F2020/01259	MODULAR CONTAINER	9/21/2020 1
F2020/01260	MODULAR CONTAINER	9/21/2020 1
F2020/01261	MODULAR CONTAINER	9/21/2020 1
F2020/01262	MODULAR CONTAINER	9/21/2020 1
F2020/01263	MODULAR CONTAINER	9/21/2020 1
F2020/01266	BUSH FOR UMBRELLA	9/22/2020 1
F2020/01268	BUSH FOR UMBRELLA	9/22/2020 1
F2020/01270	TUBE FOR UMBRELLA	9/22/2020 1
F2020/01272	DOME FOR UMBRELLA	9/22/2020 1
F2020/01273	DRONE	9/23/2020 1
F2020/01289	MODULAR CONTAINER	9/25/2020 1
F2020/01290	SET OF MODULAR BUILDING COMPONENTS	9/25/2020 1
F2020/01339	PLANT TRAINING HOOK	10/8/2020 1
F2020/01356	TABLE	10/13/2020
F2020/01361	SET OF EXERCISE WEIGHTS	10/15/2020
F2020/01373	VEHICLE INTERIOR SPACE UV DECONTAMINATION SYSTEM	10/21/2020
F2020/01404	ANTI-BRUXISM DEVICE	10/29/2020
F2020/01497	INSULATOR	11/19/2020
F2020/01498	INSULATOR	11/19/2020
F2020/01541	BIRD REPELLENT DEVICE	11/27/2020

OTHER OFFICE NOTICES

NOTICE



Companies and Intellectual
Property Commission

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COMPANIES AND INTELLECTUAL PROPERTY COMMISSION (CIPC)

Taking into consideration that CIPC official office days are Mondays to Fridays and does not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public from **10h00 on Friday 24 December 2021 up to and including Friday 31 December 2021.**

The CIPC Offices at –

- a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F – Entfufukweni) in Sunnyside, Pretoria;
- b) 1st floor, Office 103, Sancier Building, 541 Madiba Street, Arcadia, Pretoria;
- c) Talis House, No 17 Simmonds street, Cnr Main and Simmonds street, Marshalltown, Johannesburg;
- d) Norton Rose House No 8, Shop Number 3, Riebeeck Street, Thibault Square, Cape Town; and
- e) (CIPC officials) at Trade and Investment KwaZulu Natal (TIKZN) situated at 1 Arundel Close, Kingsmead Office Park, Kingsmead Boulevard, Stalwart Simelane Street in Durban,

will re-open at 08h00 on Monday 3 January 2022.

The lodgment of documents and services of legal documents will be accepted on Thursday 23 December 2021 until 15h30.

The days from Friday 24 December 2021 up to and including Sunday 2 January 2022 will be regarded as *dies non* for purposes of the stated Acts.

CIPC offers different lodgment / filing methods for certain services to its customers. During this period, services processed by automated means will continue to be processed while those services which require back-office intervention / finalisation e.g. services which require scanned documents to be e-mailed to dedicated e-mail addresses or uploaded via electronic platforms e.g. New E-Services, will only resume from Monday 3 January 2022.

Please also take note that with regard to name reservations, all reserved names that would have lapsed between Friday 24 December 2021 up to and including Sunday 2 January 2022, will now have their reservation dates moved forward to Monday 3 January 2022 and will, therefore, only elapse on that date.

SCHEDULE

- Trade Marks Act, 1993
- Patents Act, 1978
- Design Act, 1993
- Copyright Act, 1978
- Companies Act, 2008
- Close Corporations Act, 1984
- Co-operatives Act, 2005
- Registration of Copyright in Cinematograph Film Act, 1977

Kind regards, _____

Rory Voller
29/06/2021 13:18:35 (UTC+02:00)
Signed by Rory Voller,
RVoller@cipc.co.za

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Rory Voller
Commissioner: CIPC

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