

# PATENT JOURNAL

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JULY 2021

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## Part II of II

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# PATENT JOURNAL

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## 2. PATENTS



**PATENTS****APPLICATIONS FOR PATENTS**

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

**THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:**

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(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 2021/06/28 -

2021/04723 ~ Provisional ~54:THE QU-BE ~71:Stanford Nkonzo, 136 Villiers Road, South Africa ~72: Stanford Nkonzo~

2021/04434 ~ Provisional ~54:A YIELD SYSTEM ~71:LULL STORM TRADING (PTY) LTD., 168/169 Bosworth Street, ALRODE SOUTH 1451, Gauteng Province, SOUTH AFRICA, South Africa ~72: BOTHMA, Eric;VAN DER WESTHUIZEN, Rudi;WILSON, Langdon Roger~

2021/04440 ~ Complete ~54:STRAW AND COAL GANGUE BASED COMPOSITE ADSORPTION MATERIAL AND ITS PREPARATION METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Cheng, Xiang;Huang, Shunjie;Qin, Zhihong;Wang, Yanfen;Wang,Song~

2021/04451 ~ Complete ~54:PIZZA PRODUCT, PACKAGING FOR A PIZZA PRODUCT, AND METHOD OF COOKING AND DISTRIBUTION FOR A PIZZA PRODUCT ~71:YAE, LLC, 2 Alhambra Plaza, Penthouse 1B , Coral Gables, Florida, 33134, United States of America ~72: FERNANDO BENJAMIN FISCHMANN~ 33:US ~31:62/773,843 ~32:30/11/2018

2021/04453 ~ Complete ~54:COMPOSITIONS AND METHODS FOR MODULATING HAIR GROWTH ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, Twelfth Floor, Oakland, California, 94607-5200, United States of America ~72: AIMEE FLORES;HEATHER R CHRISTOFK;MICHAEL E JUNG;WILLIAM E LOWRY;XIAO GUANG LIU~ 33:US ~31:62/787,609 ~32:02/01/2019

2021/04467 ~ Complete ~54:STRAINS, COMPOSITION AND METHOD OF USE ~71:Lactobio A/S, Lersøvej 248; Parkvej 233; 42, 2., COPENHAGEN 2100, DENMARK, Denmark ~72: JENSEN, Ida Blomquist;KJØRULFF, Søren;VEDEL, Charlotte~ 33:DK ~31:PA 2019 00009 ~32:04/01/2019;33:DK ~31:PA 2019 00469 ~32:17/04/2019

2021/04475 ~ Complete ~54:POLYPEPTIDES COMPRISING MODIFIED IL-2 POLYPEPTIDES AND USES THEREOF ~71:Inhibrx, Inc., 11025 N. Torrey Pines Road, Suite 200, LA JOLLA 92037, CA, USA, United States of America ~72: BECKLUND, Bryan R.;ECKELMAN, Brendan P.;SULZMAIER, Florian J.;TIMMER, John C.;WILLIS, Katelyn McKabe~ 33:US ~31:62/789,075 ~32:07/01/2019

2021/04445 ~ Complete ~54:METHOD, MEDIUM, AND SYSTEM FOR DETECTING POTATO VIRUS IN A CROP IMAGE ~71:McCain Foods Limited, 8800 Main Street, FLORENCEVILLE-BRISTOL E7L 1B2, NEW BRUNSWICK, CANADA, Canada;Resson Aerospace Corporation, 276 Parkhurst Drive, FREDERICTON E3B 2J9, NEW BRUNSWICK, CANADA, Canada ~72: BEHL, Rishin;ROSS, William~ 33:US ~31:62/407,882 ~32:13/10/2016;33:US ~31:62/408,234 ~32:14/10/2016

2021/04449 ~ Complete ~54:VIDEO ENCODING AND DECODING ~71:HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD., No.555 Qianmo Road, Binjiang District, Hangzhou, 310051, People's Republic of China ~72: FANGDONG CHEN~ 33:CN ~31:201811628695.2 ~32:28/12/2018

2021/04474 ~ Complete ~54:AGROCHEMICAL COMPOSITION ~71:Battelle UK Limited, 29, Springfield Lyons Approach, Chelmsford Business Park, Springfield, CHELMSFORD CM2 5LB, ESSEX, UNITED KINGDOM, United Kingdom ~72: CLAPPERTON, Richard M.~ 33:EP ~31:18215405.4 ~32:21/12/2018;33:EP ~31:19196194.5 ~32:09/09/2019

2021/04435 ~ Provisional ~54:LITHIUM IRON PHOSPHATE DROP AND GO BATTERY WITH STATE OF CHARGE DISPLAY FOR ELECTRIC GOLF CARTS AND RV'S ~71:Anand Naidoo, 29 Centurion Drive , Centurion , Pretoria , Gauteng, South Africa ~72: Anand Naidoo~

2021/04443 ~ Complete ~54:BIOLOGICAL HYDRAULIC FRACTURING INTENSIFIED COAL SEAM GAS EXTRACTION SYSTEM ~71:Anhui Kunlang New Energy Co., Ltd., 18th Floor, Building 2, Science and Technology R&D Center (Jianghuaiyun) Building, High-tech Zone, Huainan City, Anhui Province, 232000, People's Republic of China;Anhui University of Science and Technology, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China;Huainan Mining (Group) Co., Ltd., Dongshan, Tianjia'an District, Huainan City, Anhui Province, 232000, People's Republic of China ~72: Chen, Jian;Jin, Gang;Li, Yang;Liu, Bingjun;Yao, Tingting~

2021/04444 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD FOR DETERMINING SURVEY SAMPLING PARAMETERS FOR ENVIRONMENTAL NUCLEIC ACID ~71:PRECISION BIOMONITORING INC., Orchard Park, Suite #226, 5420 Highway 6 North, Guelph, Ontario, N1H 6J2, Canada ~72: JESSMYN NIERGARTH;MARIO THOMAS;STEVEN CROOKES;WENJUAN QI~

2021/04455 ~ Complete ~54:A METHOD AND ARRANGEMENT IN A BATCH PULP PRODUCTION PROCESS ~71:VALMET AB, , 851 94, Sundsvall, Sweden ~72: BERDINE COETZEE;HUNPHREY LANDMAN;JOHANN WAUTS;JOUNI KARVONEN;LARI LAMMI;SUSANNA MINNAAR~ 33:SE ~31:1950405-9 ~32:02/04/2019

2021/04457 ~ Complete ~54:A METHOD AND ARRANGEMENT IN A CONTINUOUS PULP PRODUCTION PROCESS ~71:VALMET AB, , 851 94, Sundsvall, Sweden ~72: HUNPHREY LANDMAN;LARI LAMMI;MAGNUS H&#196;GGLUND~ 33:SE ~31:1950386-1 ~32:29/03/2019

2021/04468 ~ Complete ~54:STABILIZED NON-ENVELOPED VIRUS COMPOSITIONS ~71:Ziccum AB, H&#228;Isov&#228;gen 7, HUDDINGE SE-141 57, SWEDEN, Sweden ~72: ACEVEDO FONSECA, Fernando;CONRADSON, G&#246;ran~ 33:SE ~31:1950019-8 ~32:09/01/2019

2021/04432 ~ Provisional ~54:CONTINUOUS VARIABLE TRANSMISSION DRIVE TRAIN FOR A BICYCLE ~71:NERRA LIMITED, Marsden Cove Marina, Mustang/Hardstand, 48 Rauiri Drive, One Tree Point, New Zealand ~72: JOHANNES JACOBUS NAUDE~

2021/04446 ~ Complete ~54:ONLINE CHROMATOGRAPHY AND ELECTROSPRAY IONIZATION MASS SPECTROMETER ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ZHANG, Qian~ 33:US ~31:62/796,771 ~32:25/01/2019

2021/04459 ~ Complete ~54:ORAL DISPERSIBLE VACCINE COMPRISING VIROSOMES ~71:Catalent U.K. Swindon Zydis Limited, 1 George Square, GLASGOW G2 1AL, UNITED KINGDOM, United Kingdom;Mymetics Corporation, Route de la Corniche 4, EPALINGES 1066, SWITZERLAND, Switzerland ~72: AMACKER, Mario;FLEURY, Sylvain;SHIRKHANI, Khojasteh;SMARDON, Charli;STEGMANN, Antonius Johannes Hendrikus;WONG, Yik Teng~ 33:US ~31:62/772,823 ~32:29/11/2018

2021/04469 ~ Complete ~54:METHOD FOR TIME SYNCHRONIZATION BETWEEN AN AUTOMATIC MOVING MEANS AND A CONTACTLESS DETECTION MEANS ARRANGED ON SAID AUTOMATIC MOVING MEANS ~71:Saint-Gobain Glass France, 12 place de l'Iris, Tour Saint-Gobain, COURBEVOIE 92400, FRANCE, France ~72: CARLU, Adrien;MARLIER, Alexandre~ 33:FR ~31:1902931 ~32:21/03/2019

2021/04526 ~ Complete ~54:PROCESS FOR THE RECOVERY OF COPPER AND COBALT FROM A MATERIAL SAMPLE ~71:ANGLO AFRICAN SERVICES LIMITED, 34 Westway, Caterham on the Hill, United Kingdom;THE COPPERBELT UNIVERSITY, Jambo Drive, Riverside, Zambia ~72: CHAMA, Peter;HARA, Yotamu Stephen Rainford;KALUBA, Golden;MACHONA, Jimmy;MUSOWOYA, Mazwi Douglas~ 33:ZA ~31:2018/00172 ~32:10/01/2018

2021/04631 ~ Provisional ~54:SAVE MY LEVY/LEVY FOR ME/LEVY PROTECTION ~71:RUTH CRISP, 1249 River Road Sagewood Crescent Wood, South Africa ~72: RUTH CRISP~

2021/04439 ~ Complete ~54:A SYSTEM AND METHOD FOR PREPARING CLEAN COAL BY SELF-DRYING COAL SLIME OR LOW-RANK COAL ~71:Anhui Kunlang new energy Co., Ltd., 18th Floor, Building 2, Science and Technology R&D Center (Jianghuaiyun) Building, High-tech Zone, Huainan City, Anhui Province, 232000, People's Republic of China;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 ~72: Jin, Gang;Li, Yang;Liu, Bingjun;Liu, Jun;Xu, Zunyu;Yao, Tingting;Yuan, Benqing~

2021/04452 ~ Complete ~54:METHOD FOR PRODUCING SODIUM SULFITE BY REMOVING SULFUR FROM SULFUR-CONTAINING FLUE GAS USING INDUSTRIAL ALKALI RESIDUE CONTAINING ARSENIC ~71:YANXIN ENVIRONMENTAL PROTECTION AND TECHNOLOGY CO., LTD., Group16, Donglu Neighborhood Committee, Shuidongjiang Sub-District Office Leiyang, Hunan, 421800, People's Republic of China ~72: DONGHUA YUAN;HONGJIAO SHI;JINFENG LIANG;JUNYANG SHI;QIN WANG;RENZHANG SHI~

2021/04454 ~ Complete ~54:METHOD FOR EXTRACTING HEMICELLULOSE FROM LIGNOCELLULOSIC MATERIAL ~71:VALMET AB, , 851 94, Sundsvall, Sweden ~72: HUNPHREY LANDMAN;JOHANN WAUTS;JOUNI KARVONEN;LARI LAMMI;SUSANNA MINNAAR~ 33:SE ~31:1950402-6 ~32:01/04/2019

2021/04466 ~ Complete ~54:DOSE REGIMENS FOR USE OF LY3154207 IN THE TREATMENT OF DOPAMINERGIC CNS DISORDERS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BIGLAN, Kevin Michael;KILEY, Christina Marie;SVENSSON, Kjell Anders Ivan~ 33:US ~31:62/781,251 ~32:18/12/2018;33:US ~31:62/904,048 ~32:23/09/2019

2021/04471 ~ Complete ~54:ATMOSPHERIC WATER GENERATOR ~71:Watergen Ltd., 2 Granit Street, PETAH 4951446, TIQWA, ISRAEL, Israel ~72: BLUMENTHAL, Yanir Richard;CHERNIN, Guy Evgeni;DULBERG, Sharon;NECHEMIA, Chen;PERY, Moran~ 33:US ~31:62/789,603 ~32:08/01/2019

2021/04442 ~ Complete ~54:PREPARATION METHOD FOR ORGANIC FERTILIZER FOR IMPROVING YIELD AND QUALITY OF APPLES ~71:SHANDONG INSTITUTE OF POMOLOGY, NO. 64, LONGTAN ROAD, People's Republic of China ~72: CHANG, YUANSHEG;HE, PING;HE, XIAOWEN;LI, LINGUANG;WANG, HAIBO;WANG, SEN~

2021/04473 ~ Complete ~54:TWO PIECE SENSOR ASSEMBLY AND METHOD OF USE ~71:MediBeacon Inc., 1100 Corporate Square Drive, Helix Center, Suite 175, ST. LOUIS 63132, MO, USA, United States of America ~72: LE, Anthony;LEUGERS, Martin~ 33:US ~31:62/793,000 ~32:16/01/2019

2021/04478 ~ Provisional ~54:WEARABLE/STICK ON DESKS/ STICK IN VEHICLES, WRIST, WASTE BAND/BELT ANTISEPTIC MIXTURE/ SANITIZER APPARATUS ~71:arthur nieklaasen, 09 endeman street, South Africa;mikael sikwebu nieklaassen, o9 endeman street, dawn park, South Africa;mikayla sikwebu nieklaassen, o9 endeman street, dawn park, South Africa ~72: arthur nieklaasen;mikael sikwebu nieklaassen;mikayla sikwebu nieklaassen~

2021/04447 ~ Complete ~54:TREM COMPOSITIONS AND USES THEREOF ~71:FLAGSHIP PIONEERING, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: AFEYAN, Noubar, Boghos;ANASTASSIADIS, Theonie;BERRY, David, Arthur;HAJDIN, Christine, Elizabeth~ 33:US ~31:62/794,342 ~32:18/01/2019;33:US ~31:62/855,547 ~32:31/05/2019

2021/04456 ~ Complete ~54:METHODS OF TREATING CANCER WITH A PD-1 AXIS BINDING ANTAGONIST AND AN RNA VACCINE ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080, United States of America ~72: GREGG DANIEL FINE;LARS MUELLER~ 33:US ~31:62/792,387 ~32:14/01/2019;33:US ~31:62/795,476 ~32:22/01/2019;33:US ~31:62/887,410 ~32:15/08/2019

2021/04462 ~ Complete ~54:ELECTROSPUN POLYMER FIBERS FOR CULTURED MEAT PRODUCTION ~71:Nanofiber Solutions, LLC, 5164 Blazer Parkway, DUBLIN 43017, OH, USA, United States of America ~72: JOHNSON, Jed K.;OHST, Devan~ 33:US ~31:62/800,051 ~32:01/02/2019

2021/04464 ~ Complete ~54:EMBOSSING OR DEBOSSING OF A LABEL SUBSTRATE ~71:Multi-Color Corporation, 4053 Clough Woods Drive, BATAVIA 45103, OH, USA, United States of America ~72: BUSHMAN, Craig A.;MCKILLIP, Barron G.;SCHUMACHER, Chris Alan~ 33:US ~31:62/804,333 ~32:12/02/2019

2021/04477 ~ Complete ~54:LOCOMOTIVE MONOBLOCK WHEEL AND DESIGN METHOD THEREOF ~71:BAOWU GROUP MASTEEL RAIL TRANSIT MATERIALS TECHNOLOGY CO., LTD, No.700 Yinhuang East Road, Ma&#39;anshan Economic And Technological Development Zone, People's Republic of China ~72: HUANG, Xiaoqing;LIU, Zhi;XIE, Feng~ 33:CN ~31:202010975663.0 ~32:16/09/2020

2021/04441 ~ Complete ~54:A SYSTEM AND METHOD FOR PREPARING CLEAN COAL BASED ON LOW-CONCENTRATION GAS REGENERATIVE OXIDATION ~71:Anhui Kunlang new energy Co., Ltd., 18th Floor, Building 2, Science and Technology R&D Center (Jianghuaiyun) Building, High-tech Zone, Huainan City, Anhui Province, 232000, People's Republic of China;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 ~72: Jin, Gang;Li, Yang;Liu, Bingjun;Xu, Zunyu;Yao, Tingting;Yuan, Benqing~

2021/04460 ~ Complete ~54:TOPICAL TREATMENT OF IMMUNE CHECKPOINT INHIBITOR INDUCED DIARRHOEA, COLITIS OR ENTEROCOLITIS USING ANTIBODIES AND FRAGMENTS THEREOF ~71:Tillotts Pharma AG, Baslerstrasse 15, RHEINFELDEN 4310, SWITZERLAND, Switzerland ~72: BRAVO, Roberto;BRUNO, Cristina;FURRER, Esther Maria;GERSTNER, Ortrud;NEDELJKOVIC PROTIC, Marijana;SPLEISS, Johannes;VARUM, Felipe~ 33:IB ~31:2018/084057 ~32:07/12/2018

2021/04465 ~ Complete ~54:TREATMENT OF SJOGREN'S DISEASE WITH NUCLEASE FUSION PROTEINS ~71:Resolve Therapeutics, LLC, 721 1st Ave. N, ST. PETERSBURG 33701, FL, USA, United States of America ~72: BURGE, Daniel;POSADA, James Arthur~ 33:US ~31:62/788,730 ~32:04/01/2019

2021/04476 ~ Complete ~54:LABEL PRINTING SYSTEM AND METHOD ~71:METAS, LLC, 200 32nd Street, S.E., Suite B, United States of America ~72: KAMAN, Mike;MIDDLETON, Blake;MIDDLETON, Brady;MIDDLETON, Steve~ 33:US ~31:62/785,932 ~32:28/12/2018

2021/04450 ~ Complete ~54:HETEROAROMATIC DERIVATIVES FOR USE AS REGULATOR, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU HANSON PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HANSON BIOMEDICAL CO., LTD., Building 2, No.3728 Jinke Road, Zhangjiang, Hi-Tech Park, Shanghai, 201203, People's Republic of China ~72: JIAN LI;JIAQIANG CAI;MI ZENG;PENG GAO;PENG XU;RUDI BAO;YU CHENG~ 33:CN ~31:201811455357.3 ~32:30/11/2018;33:CN ~31:201910351595.8 ~32:28/04/2019;33:CN ~31:201911175587.9 ~32:26/11/2019

2021/04461 ~ Complete ~54:COMBINATION HBV THERAPY ~71:Humabs BioMed SA, Via dei Gaggini 3, BELLINZONA 6500, SWITZERLAND, Switzerland;Vir Biotechnology, Inc., 499 Illinois, Suite 500, SAN FRANCISCO 94158, CA, USA, United States of America ~72: BAKARDJIEV, Anna;CORTI, Davide;PANG, Phillip S.~ 33:US ~31:62/782,896 ~32:20/12/2018

2021/04463 ~ Complete ~54:A MINING MACHINE ADAPTED FOR EXTRACTING MATERIAL FROM A DEPOSIT, AND METHOD FOR CONTROL THEREOF ~71:Sandvik Mining and Construction G.m.b.H., Alpinestrasse 1, ZELTWEIG 8740, AUSTRIA, Austria ~72: BURGSTEINER, Uwe;LAMMER, Christopher~

2021/04470 ~ Complete ~54:ENCAPSULATED RNA POLYNUCLEOTIDES AND METHODS OF USE ~71:Oncorus, Inc., 50 Hampshire Street, Suite 401, CAMBRIDGE 02139, MA, USA, United States of America ~72: FINER, Mitchell H.;KENNEDY, Edward M.;LERNER, Lorena;QU&#201;VA, Christophe~ 33:US ~31:62/788,504 ~32:04/01/2019;33:US ~31:62/895,135 ~32:03/09/2019

2021/04433 ~ Provisional ~54:SECURITY DEVICE AND ASSOCIATED SECURITY SYSTEM ~71:PRIMIC, Louis-Andr&#233;, Unit 1, 31 Pinotage Road, Saxonburg Park 1, South Africa ~72: PRIMIC, Louis-Andr&#233;~

2021/04436 ~ Provisional ~54:SHARK REPELLENT SYSTEM ~71:KWAZULU-NATAL SHARKS BOARD, 1A Herrwood Drive, Umhlanga Rocks, South Africa ~72: VON BLERK, Paul Warren~

2021/04448 ~ Complete ~54:DIFFUSIVE GRADIENTS IN THIN-FILMS TECHNOLOGY-BASED PASSIVE SAMPLING DEVICE FOR POLYCYCLIC AROMATIC HYDROCARBONS AND USE THEREOF ~71:Ecology Institute of Shandong Academy of Sciences( China-Japan Friendship Biotechnology Research Center, Shandong Academy of Sciences), 19th Keyuan Road, Lixia Zone, Jinan City, Shandong Province, China 250000, Jinan, People's Republic of China ~72: CHEN, Guanhong;GAO, Yongchao;HUANG, Yujie;WANG, Jianing;ZHANG, Wen;ZHANG, Zhaoyong;ZHAO, Qingqing;ZHENG, Liwen~

2021/04458 ~ Complete ~54:A POUCH FOR CONTAINING A BEVERAGE ~71:REAL DRINKS COMPANY LIMITED, Plot B, Block 11, Ilupeju Industrial Estate Highway, Nigeria ~72: AGHA, Zamy~ 33:GB ~31:1819506.5 ~32:29/11/2018

2021/04472 ~ Complete ~54:PREPARATION METHOD FOR REVITALIZING A BIOCOMPATIBLE TISSUE ~71:Telea Biotech S.r.l., Via Leonardo Da Vinci, 13, SANDRIGO (VI) 36066, ITALY, Italy ~72: MARZARO, Maurizio;POZZATO, Gianantonio~ 33:IT ~31:102019000003299 ~32:07/03/2019

- APPLIED ON 2021/06/29 -

2021/04493 ~ Complete ~54:STABLE AND SOLUBLE ANTIBODIES INHIBITING TNFA ~71:ESBATECH, AN ALCON BIOMEDICAL RESEARCH UNIT LLC, Wagistrasse 21, CH-8952, Schlieren, Switzerland ~72: DAVID URECH;LEONARDO BORRAS;TEA GUNDE~ 33:US ~31:61/075,640 ~32:25/06/2008;33:US ~31:61/075,692 ~32:25/06/2008;33:US ~31:61/075,697 ~32:25/06/2008;33:US ~31:61/075,956 ~32:26/06/2008;33:US ~31:61/155,041 ~32:24/02/2009



2021/04513 ~ Complete ~54:AUGMENTED REALITY FILTERS FOR CAPTURED AUDIOVISUAL PERFORMANCES ~71:Smule, Inc., 139 Townsend Street, Suite 300, SAN FRANCISCO 94107, CA, USA, United States of America ~72: CHI, Paul T.;COOK, Perry R.;HOLMBERG, Anton;STEINWEDEL, David;VILLEGAS, Javier;YOUNG, David~ 33:US ~31:62/774,664 ~32:03/12/2018

2021/04518 ~ Complete ~54:CD3 ANTIBODY AND PHARMACEUTICAL USE THEREOF ~71:JIANGSU HENGRUI MEDICINE CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., 279 Wenjing Road Minhang District, Shanghai, 200245, People's Republic of China ~72: HU GE;HUA YING;LING ZHANG;WEIKANG TAO;XIAOYING YANG~ 33:CN ~31:201811491781.3 ~32:07/12/2018

2021/04524 ~ Complete ~54:SUBSTITUTED POLYCYCLIC CARBOXYLIC ACIDS, ANALOGUES THEREOF, AND METHODS USING SAME ~71:ARBUTUS BIOPHARMA CORPORATION, 100-8900 Glenlyon Parkway , Burnaby, British Columbia, V5J 5J8, Canada ~72: ANDREW G COLE;BRUCE D DORSEY;DIMITAR B GOTCHEV;JORGE QUINTERO;MICHAEL J SOFIA;RAMESH KAKARLA;SHARON MARIE KIRK;SHUAI CHEN;YI FAN~ 33:US ~31:62/793,578 ~32:17/01/2019

2021/04482 ~ Provisional ~54:PERSONAL WATERCRAFT WITH AN UNDERWATER VIEWING FACILITY ~71:MCQUADE, Barry John, 42 Tuscan Villas, Umhlali Country Club & Golf Estate, South Africa ~72: MCQUADE, Barry John~

2021/04496 ~ Complete ~54:RECOMBINANT HERPES SIMPLEX VIRUS VECTOR, RECOMBINANT VIRUS AND PHARMACEUTICAL COMPOSITION THEREOF ~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~

2021/04504 ~ Complete ~54:RESIN-GROUTED ROCK BOLT ASSEMBLY WITH AN ADAPTED SEALING BUSH ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, South Africa ~72: ABREU, Rual;CAWOOD, Martin;CROMPTON, Brendan Robert;PASTORINO, Paolo Ettore~ 33:ZA ~31:2019/07725 ~32:22/11/2019

2021/04509 ~ Complete ~54:TABLETED CANNABINOID CHEWING GUM WITH LAYERED STRUCTURE ~71:NordicCan A/S, Dandyvej 19, VEJLE 7100, DENMARK, Denmark ~72: BOESEN, Dorte Schackinger;BRUUN, Heidi Ziegler;ERIKSEN, Ane~ 33:CA ~31:3,035,400 ~32:01/03/2019;33:US ~31:16/289,770 ~32:01/03/2019

2021/04516 ~ Complete ~54:SUBSTRATE PROVIDED WITH A STACK HAVING THERMAL PROPERTIES AND AN ABSORBENT LAYER ~71:Saint-Gobain Glass France, 12 place de l'Iris, Tour Saint-Gobain, COURBEVOIE 92400, FRANCE, France ~72: MARTIN, Estelle;MONMEYRAN, Corentin~ 33:FR ~31:1900314 ~32:14/01/2019

2021/04480 ~ Provisional ~54:A SCALAR INDUCTOR ~71:MAGENTALIS (PTY) LTD, 344B The Rand Street, Lynnwood, South Africa ~72: KIRSTEN, Johan, Frederik~

2021/04481 ~ Provisional ~54:AN ELECTROSCALAR CONVERTER ~71:MAGENTALIS (PTY) LTD, 344B The Rand Street, Lynnwood, South Africa ~72: KIRSTEN, Johan, Frederik~

2021/04487 ~ Complete ~54:METHOD FOR DETECTING MONOSACCHARIDES IN APPLE PULP CELL WALL BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY ~71:Institute of Pomology of CAAS, Section 3, Xinghai Road, Wenquan Street,, Xingcheng City, Liaoning Province, People's Republic of China ~72: Cong Peihua;Lyu Deguo;Qin Sijun;Yang Ling~

2021/04495 ~ Complete ~54:A COAL MINE GAS PASSIVATION SAFETY TRANSPORTATION SYSTEM  
~71:Anhui Kunlang New Energy Co., Ltd., 18th Floor, Building 2, Science and Technology R&D Center  
(Jianghuaiyun) Building, High-tech Zone, Huainan City, Anhui Province, 232000, People's Republic of  
China; 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 ~72: Jin, Gang; Li,  
Yang; Liu, Bingjun; Xu, Zunyu; Yao, Tingting; Yuan, Benqing~

2021/04520 ~ Complete ~54:RECOMBINANT HUMAN 2IG-B7-H3 PROTEIN CODING GENE, RECOMBINANT  
VECTOR, HOST CELL COMPRISING THE SAME, PHARMACEUTICAL COMPOSITION AND USE THEREOF  
~71:HAIDONG HUANG, Room 1505, Maples International Center, Bldg.2, No.32 Xizhimen North Street, Haidian  
District, Beijing, 100082, People's Republic of China; HANQIANG CHEN, Jinshenghuayuan Zone 2 No. 78,  
Yongkang, Zhejiang, 321300, People's Republic of China; XIAOYI ZHOU, No. 49 North Lizhou Rd., Yongkang,  
Zhejiang, 321300, People's Republic of China ~72: HAIDONG HUANG~

2021/04489 ~ Complete ~54:A MULTIFUNCTIONAL CART SPECIAL FOR CIVIL ENGINEERING ~71:Henan  
University Of Urban Construction, Henan University Of Urban Construction, Longxiang Avenue, Pingdingshan,  
Henan, 467036, People's Republic of China ~72: He Ruixia; Long Dan; Zhai Juyun; Zhang Shuo; Zheng Chao; Zhu  
Hanyu~

2021/04485 ~ Complete ~54:FLUORESCENCE POLARIZATION IMMUNOASSAY METHOD FOR MULTI  
RESIDUE OF ANTIBACTERIAL SYNERGISTS BASED ON DHFR ~71:Qingdao Agricultural University, No.700  
Changcheng Road, Chengyang District, Qingdao, Shandong Province, 266109, People's Republic of China ~72:  
Liang Xiao; Liu Baotao; Yu Wanyang~

2021/04486 ~ Complete ~54:NEW TYPE OF BACTERIA INCUBATOR ~71:Qingdao Agricultural University,  
No.700 Changcheng Road, Chengyang District, Qingdao, Shandong Province, 266109, People's Republic of  
China ~72: Li ChangAn; Liang Xiao; Liu BaoTao~

2021/04497 ~ Complete ~54:AUTOMATIC GLUE DISCHARGING DEVICE FOR EMPTY CAPSULE  
PRODUCTION LINE ~71:XINCHANG COUNTY HONGHAI MACHINERY CO., LTD., Ruao Town Industrial Park,  
Xinchang County, Zhejiang Province, People's Republic of China ~72: ZHANG, Guohong~

2021/04500 ~ Complete ~54:MATRIX METALLOPROTEASE-CLEAVABLE AND SERINE OR CYSTEINE  
PROTEASE-CLEAVABLE SUBSTRATES 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: VASILJEVA, Olga; WINTER, Michael B. ~ 33:US ~31:62/776,409  
~32:06/12/2018; 33:US ~31:62/778,062 ~32:11/12/2018

2021/04503 ~ Complete ~54:CATALYSTS COMPRISING A ZIRCONIA AND GALLIUM OXIDE COMPONENT  
~71:DOW GLOBAL TECHNOLOGIES LLC, 2040 Dow Center Midland,, United States of America ~72:  
ANDREWS, Kyle C.; CHOJECKI, Adam; DEWILDE, Joseph F.; KIRILIN, Alexey; MALEK, Andrzej; SANTOS  
CASTRO, Vera P.; YANCEY, David F. ~ 33:US ~31:62/785,828 ~32:28/12/2018

2021/04514 ~ Complete ~54:SIMPLE SUGAR CONCENTRATION SENSOR AND METHOD WITH NARROWED  
OPTICAL PATH AND INTERROGATOR BEAM ~71:K Sciences GP, LLC, 4440 Evangel Circle, HUNTSVILLE  
35816, AL, USA, United States of America ~72: KORMAN, Valentin~ 33:US ~31:62/788,587 ~32:04/01/2019

2021/04483 ~ Provisional ~54:A DRILL STEEL CLAMP ~71:PROVEST GROUP (PTY) LTD, 55 Brink Street,  
South Africa ~72: GRIX, Etienne Douglas Lennox~

2021/04484 ~ Complete ~54:HOSE FLANGE PROTECTOR ~71:Dalian University of Technology, No. 2, Dagong Road, Liaodong Bay New District, Panjin City, Liaoning Province, 124221, People's Republic of China;Yangjiang Panda Haizhuang Technology Co., Ltd., Unit 306, 3rd Floor, Science and Technology Business Incubation Center Building, Yangjiang High-tech Zone, People's Republic of China ~72: FAN, Xuehong;GAO, Zhizhao;WANG, Gang;YU, Lei;ZHANG, Dayong;ZHANG, Mingfei;ZHANG, Xiangfeng~ 33:CN ~31:202021346619.5 ~32:10/07/2020

2021/04491 ~ Complete ~54:SEMI-OFF-LINE WEIGHING TYPE CONCENTRATION MEASURING DEVICE FOR SLIME WATER IN CONCENTRATION TANK ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: LIU, Haizeng;LV, Wenbao;QIU, Yibing;WANG, Lei~

2021/04508 ~ Complete ~54:METHODS OF PRODUCING HIGH DIVERSITY PEPTIDE LIBRARIES AND PROMOTING PROTEIN FOLDING ~71:Repertoire Immune Medicines, Inc., 26 Landsdowne Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: AFZELIUS, Ellen Lovisa Larsdotter;MABRY III, George Robert;ROGOV, Peter Lyubomirov;ROSCOE, Benjamin Peter;SWAIN, Joanna Feltham;VAIDYA, Harsh Jayeshkumar;YOSEFSON, Ohad~ 33:US ~31:62/788,673 ~32:04/01/2019

2021/04522 ~ Complete ~54:CONSTRUCTION METHOD FOR CREATING A TROPICAL STYLE SWIMMING LAGOON WITH BEACHES WITHIN VACANT OR ABANDONED SITES ~71:CRYSTAL LAGOONS TECHNOLOGIES, INC., 2 Alhambra Plaza, Penthouse 1B, Coral Gables, Florida, 33134, United States of America ~72: FERNANDO BENJAMIN FISCHMANN~ 33:US ~31:62/785,086 ~32:26/12/2018;33:US ~31:16/538,273 ~32:12/08/2019

2021/04525 ~ Complete ~54:TRANSFORMATION AND CONSTRUCTION METHOD FOR CREATING A TROPICAL STYLE SWIMMING LAGOON AT THE INFIELD OF RACING AND/OR ACTIVITY CIRCUITS ~71:CRYSTAL LAGOONS TECHNOLOGIES, INC., 2 Alhambra Plaza, Penthouse 1B, Coral Gables, Florida, 33134, United States of America ~72: FERNANDO BENJAMIN FISCHMANN~ 33:US ~31:62/785,086 ~32:26/12/2018;33:US ~31:16/538,273 ~32:12/08/2019

2021/04534 ~ Complete ~54:METHOD FOR HYDROPHOBIC AGGREGATION SETTLEMENT AND CLARIFICATION OF COAL SLURRY WATER ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CHEN, JUN;LING, YUNJIA;LIU, LINGYUN;MIN, FANFEI;SUN, YU~

2021/04506 ~ Complete ~54:METHODS OF TREATING FOLLICULAR LYMPHOMA ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: BALASUBRAMANIAN, Sriram~ 33:US ~31:62/773,678 ~32:30/11/2018

2021/04511 ~ Complete ~54:NETWORK NODE ~71:NTT Docomo Inc., 11-1, Nagatacho 2-chome, Chiyoda-ku, TOKYO 100-6150, JAPAN, Japan ~72: MIN, Tianyang;TAKAHASHI, Hideaki;TANIGUCHI, Masato~

2021/04492 ~ Complete ~54:BRAKE CONTROL SYSTEM ~71:Westinghouse Air Brake Technologies Corporation, 1001 Air Brake Avenue, WILMERDING 15148, PA, USA, United States of America ~72: HAAS, Carl L.;WOLF, Charles L.~ 33:US ~31:63/049,449 ~32:08/07/2020;33:US ~31:17/347,161 ~32:14/06/2021

2021/04502 ~ Complete ~54:TRANSPORT AND RAIL INFRASTRUCTURE MONITORING SYSTEM ~71:ASIATIC INNOVATIONS PTY LTD, c/o - Intellepro Patent & Trade Mark Attorneys GPO Box 1339, Australia ~72: Glenn VIVIAN;Peter Hamilton HOGG~ 33:AU ~31:2018904739 ~32:13/12/2018



2021/04510 ~ Complete ~54:MEMORIES OF FLUIDIC DIES ~71:Hewlett-Packard Development Company, L.P., 10300 Energy Drive, SPRING 77389, TX, USA, United States of America ~72: GARDNER, James Michael;NESS, Erik D.;NG, Boon Bing~

2021/04517 ~ Complete ~54:WHEEL ASSEMBLY INCLUDING INNER AND OUTER RIM COUPLED HYDRAULIC DAMPERS AND RELATED METHODS ~71:GACW Incorporated, 3100 West Ray Road, Suite 201, CHANDLER 85226, AZ, USA, United States of America ~72: KEMENY, Zoltan~ 33:US ~31:16/237,478 ~32:31/12/2018;33:US ~31:16/383,169 ~32:12/04/2019;33:US ~31:16/596,302 ~32:08/10/2019

2021/04523 ~ Complete ~54:URBAN PERFORMANCE VENUE FOR THE PROVISION OF ENTERTAINMENT TO AN AUDIENCE IN A BEACH THEMED SETTING ~71:CRYSTAL LAGOONS TECHNOLOGIES, INC., 2 Alhambra Plaza, Penthouse 1B, Coral Gables, Florida, 33134, United States of America ~72: FERNANDO BENJAMIN FISCHMANN~ 33:US ~31:62/785,086 ~32:26/12/2018;33:US ~31:16/538,273 ~32:12/08/2019

2021/04479 ~ Provisional ~54:SHRINK-WRAP AND GLUED SIX-PACK PACKAGING ~71:Martin Hempel, 138 Villiers Road, Walmer, South Africa ~72: Martin Hempel~

2021/04490 ~ Complete ~54:A TRACKING GUIDANCE METHOD FOR ONLINE CORRECTION OF STANDARD WAVY REENTRY TRAJECTORIES ~71:Northwestern Polytechnical University, No.127 Youyi West Road, Xi &#39;an, Shaanxi, 710072, People's Republic of China ~72: Ge Song;Liu Haili;Wang Kuan;Wang Peichen;Wang Shumei;Yan Xunliang~

2021/04501 ~ Complete ~54:MICROWAVEABLE FROZEN BREADED FOOD PRODUCT ~71:CRISP SENSATION HOLDING B.V., Valeton 3, Netherlands ~72: HELMINK, Tom;KALSBECK, Jasper Steven;VAN DONKELAAR, Laura Henrietta Gerardina~ 33:EP ~31:18215630.7 ~32:21/12/2018;33:EP ~31:19189901.2 ~32:02/08/2019

2021/04507 ~ Complete ~54:CANNABINOID CHEWING GUM WITH SUGAR ALCOHOLS ~71:NordicCan A/S, Dandyvej 19, VEJLE 7100, DENMARK, Denmark ~72: BOESEN, Dorte Schackinger;BRUUN, Heidi Ziegler;ERIKSEN, Ane~ 33:CA ~31:3,031,530 ~32:25/01/2019;33:US ~31:16/257,963 ~32:25/01/2019

2021/04512 ~ Complete ~54:INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu, Republic of Korea ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0173164 ~32:28/12/2018;33:KR ~31:10-2018-0173228 ~32:29/12/2018

2021/04515 ~ Complete ~54:GENE THERAPY CONSTRUCTS FOR TREATING WILSON DISEASE ~71:Ultragenyx Pharmaceutical Inc., 60 Leveroni Court, NOVATO 94949, CA, USA, United States of America ~72: LIVINGSTON, Christine;WADSWORTH, Samuel~ 33:US ~31:62/788,324 ~32:04/01/2019;33:US ~31:62/834,830 ~32:16/04/2019

2021/04521 ~ Complete ~54:ARTIFICIAL PROMISCUOUS T HELPER CELL EPITOPES AS IMMUNE STIMULATORS FOR SYNTHETIC PEPTIDE IMMUNOGENS ~71:UNITED BIOMEDICAL, INC., 25 Davids Drive, Hauppauge, New York, 11788, United States of America ~72: CHANG YI WANG~ 33:US ~31:62/782,253 ~32:19/12/2018

2021/04533 ~ Complete ~54:SIMILAR MATERIAL PROPORTIONING SAMPLE DEMOULDING DEVICE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168 Taifeng Street, Anhui Province, People's Republic of China ~72: QIDING JU;QIMENG LIU;TAIFENG HU;YOUBIAO HU;YU LIU~

2021/04488 ~ Complete ~54:AN AUXILIARY CONSTRUCTION APPARATUS FOR HIGH-STRENGTH CONCRETE SHAFT LINING STRUCTURE ~71:China University of Mining and Technology, No.1 Daxue Road, Tongshan District, Xuzhou, Jiangsu, People's Republic of China ~72: Fu Ran;Huang Xin;Song Fangnian;Sun Peixin;Yang Weihao;Yao Wenjie~ 33:CN ~31:202110349638.6 ~32:31/03/2021

2021/04494 ~ Complete ~54:NUCLEOTIDE HEMI-SULFATE SALT FOR THE TREATMENT OF HEPATITIS C VIRUS ~71:ATEA PHARMACEUTICALS, INC., 125 Summer Street, Boston, Massachusetts, 02110, United States of America ~72: ADEL MOUSSA;JEAN-PIERRE SOMMADOSSI~ 33:US ~31:62/453,437 ~32:01/02/2017;33:US ~31:62/469/912 ~32:10/03/2017;33:US ~31:62/488,366 ~32:21/04/2017;33:US ~31:62/575,248 ~32:20/10/2017

2021/04498 ~ Complete ~54:POLYMORPH FORM OF A MONOPHOSPHATE HYDRATE SALT OF A KNOWN TETRAHYDROISOQUINOLINE DERIVATIVE ~71:PFIZER INC., 235 East 42nd Street, United States of America ~72: CLARK, Wesley;SAMAS, Brian~ 33:US ~31:62/795,631 ~32:23/01/2019;33:US ~31:62/872,802 ~32:11/07/2019

2021/04505 ~ Complete ~54:BRAKE DRAGGING DETECTION AND MITIGATION ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: COWPER, Lance;DETTMAN, Ronald P.;DOY, Nathaniel~ 33:US ~31:16/238,016 ~32:02/01/2019

2021/04519 ~ Complete ~54:ELACESTRANT IN COMBINATION WITH ABEMACICLIB IN WOMEN WITH BREAST CANCER ~71:RADIUS PHARMACEUTICALS, INC., 22 Boston Wharf Road, 7th Floor , Boston, Massachusetts, 02210, United States of America ~72: CHARLES MORRIS;NINA K ARAGAM~ 33:US ~31:62/773,960 ~32:30/11/2018

2021/04499 ~ Complete ~54:HIGH PRODUCTIVITY AND FLEXIBILITY PLANT OF THE SPUN BONDING TYPE FOR THE PRODUCTION OF A NON-WOVEN WEB ~71:SOFT N.W. S.P.A., Via Piave 5, Italy ~72: Daniele SANELLA;Giovanni VERZOLETTO;Ivan PAPETTI;Marco ROVELLINI;Olmo FALCO;Paolo FALCO;Stefano BRIGA~ 33:IT ~31:102018000021523 ~32:31/12/2018

- APPLIED ON 2021/06/30 -

2021/04558 ~ Complete ~54:METHOD FOR FILTERING FIBRINOGEN ~71:Laboratoire Francais du Fractionnement et des Biotechnologies, ZA De Courtaboeuf, 3 Av des Tropiques, LES ULIS 91940 , FRANCE, France ~72: BATAILLE, Damien;OLLIVIER, Monique;TELLIER, Michel~ 33:FR ~31:18 73741 ~32:21/12/2018

2021/04565 ~ Complete ~54:INSERT FOR A JOURNAL LEG AND / OR A CONE CUTTER OF A ROTARY DRILL TOOL ~71:Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: ROLDAN SALDES, Raul~ 33:EP ~31:19157436.7 ~32:15/02/2019

2021/04570 ~ Complete ~54:DIAGNOSIS OR PROGNOSIS OF POSTSURGICAL ADVERSE EVENTS ~71:B.R.A.H.M.S GmbH, Neuendorfstra&#223;e 25, HENNIGSDORF 16761, GERMANY, Germany;Link&#246;ping University Hospital, LINK&#214;PING 58185, SWEDEN, Sweden ~72: ANDERSSON, Henrik;CHEW, Michelle;WILSON, Darius~ 33:EP ~31:19020082.4 ~32:21/02/2019

2021/04528 ~ Provisional ~54:OTRUM ~71:MURTO NEL, 45 CROWN ST, South Africa ~72: MURTO NEL~

2021/04531 ~ Provisional ~54:ADJUSTABLE CHAIR ~71:GADD, Frank, 6 Forest Glen, 14 Kingsley Terrace, Doonside, South Africa ~72: GADD, Frank~

2021/04542 ~ Complete ~54:METHODS AND COMPOSITIONS FOR DIAGNOSIS AND TREATMENT OF DISORDERS IN PATIENTS WITH ELEVATED LEVELS OF CXCL9 AND OTHER BIOMARKERS ~71:Swedish

Orphan Biovitrum AG, c/o KTax AG, Winkelriedstrasse 35, Luzern 6003, SWITZERLAND, Switzerland ~72: DE BENEDETTI, Fabrizio;DE MIN, Cristina;FERLIN, Walter~ 33:US ~31:62/158,153 ~32:07/05/2015;33:US ~31:62/221,393 ~32:21/09/2015;33:US ~31:62/246,949 ~32:27/10/2015

2021/04549 ~ Complete ~54:FUEL PICK-UP DEVICE ~71:FUEL ACTIVE LIMITED, Unit 2 Glan-Y-Lyn Industrial Estate, Cardiff Road, Taff&#39;s Well, South Wales, CF15 7JD, United Kingdom ~72: BATEMAN, Paul Graham;JAMES, Michael John~ 33:GB ~31:1900419.1 ~32:11/01/2019

2021/04553 ~ Complete ~54:CONJUGATES OF PATTERN RECOGNITION RECEPTOR AGONISTS ~71:ASCENDIS PHARMA ONCOLOGY DIVISION A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: BISEK, Nicola;LESSMANN, Torben;SPROG&#216;E, Kennett;STARK, Sebastian;VOIGT, Tobias;WEISBROD, Samuel;YANG-MALTEN, Yang~ 33:EP ~31:19150384.6 ~32:04/01/2019;33:EP ~31:19181817.8 ~32:21/06/2019;33:EP ~31:19206474.9 ~32:31/10/2019

2021/04563 ~ Complete ~54:ANTHELMINTIC LABORATORY ANIMAL MODEL FOR HEARTWORM ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: KNAUER, Christopher S.;MILLS, Brian John;McTIER, Tom L.;WOODS, Debra Jean~ 33:US ~31:62/790,510 ~32:10/01/2019

2021/04530 ~ Provisional ~54:AIM ALIGNMENT DEVICE ~71:CHRISTOFFEL JOHANNES HENZE DE WET, 10 Casten road, Groenvlei, South Africa ~72: CHRISTOFFEL JOHANNES HENZE DE WET~

2021/04538 ~ Complete ~54:FALL DETECTION METHOD AND DEVICE BASED ON HYBRID CASCADE CONVOLUTION ~71:China Three Gorges University, No.8 Daxue Road, Xiling District, Yichang, Hubei Province, People's Republic of China;Wuhan Yangshi Technology Co., Ltd., No.16 Tuanjie Road, Wuchang District, Wuhan, Hubei Province, People's Republic of China ~72: Kang Wei;Liu Junqing;Wang Jianhua;Yan Bing~

2021/04544 ~ Complete ~54:CU2O/ TIO2 COMPOSITE PHOTOCATALYTIC MATERIAL AND ITS PREPARATION METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Cheng, Xiang;Gao, Juan;Li, Mengting;Liu, Yin;Wang, Yanfen~

2021/04552 ~ Complete ~54:A CYLINDER LOCK UNIT AND AN ASSOCIATED KEY ~71:WINLOC AG, P.O. Box 4233, Switzerland ~72: WID&#201;N, Bo~

2021/04536 ~ Complete ~54:MINE MULTIFUNCTIONAL SAFETY HELMET AND IMPLEMENTATION 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;Zhu Yanna~

2021/04537 ~ Complete ~54:TRIAXIAL LOAD SEEPAGE DEVICE FOR CT AND IMPLEMENTATION METHOD THEREOF ~71:Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, People's Republic of China ~72: Huang Yourui;Zhang Guisheng;Zhu Yanna~

2021/04543 ~ Complete ~54:HYBRID SEED SELECTION AND SEED PORTFOLIO OPTIMIZATION BY FIELD ~71:The Climate Corporation, 201 3rd Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: BULL, Jason Kendrick;EHLMANN, Tonya S.;REICH, Timothy;SCHNICKER, Bruce J.;SORGE, Matthew;XIE, Yao;YANG, Xiao~ 33:US ~31:15/807,876 ~32:09/11/2017

2021/04550 ~ Complete ~54:CONTROL DEVICE FOR CONTROLLING REAL OR VIRTUAL AIRBORNE OBJECTS ~71:GERNAERT, Manuel-Ren&#233;, Heubergredder 28, Hamburg, Germany ~72: GERNERT, Manuel-Ren&#233;~ 33:DE ~31:10 2019 100 056.4 ~32:03/01/2019

2021/04551 ~ Complete ~54:TYRE SIDEWALL IMAGING METHOD ~71:WHEELRIGHT LIMITED, Begbroke Centre for Innovation & Enterprise, Begbroke Hill, Woodstock Road, United Kingdom ~72: CODD, Alexander Paul;KAZMI, Syed Wajahat Ali Shah;NABNEY, Ian Thomas;VOGIATZIS, George~ 33:GB ~31:1900915.8 ~32:23/01/2019

2021/04554 ~ Complete ~54:CHARGING STATION AND ARRANGEMENT OF ELECTRIC COMPONENTS FOR CONTROLLING THE DELIVERY OF ELECTRICITY FROM AN ELECTRICAL GRID TO AN ELECTRIC VEHICLE ~71:EASEE AS, GRENSEVEIEN 19, 4313 SANDNES, NORWAY, Norway ~72: HELMIKST&#216;L, Jonas;M&#216;LGAARD, Steffen;N&#198;SJE, Kjetil;STENGEL, Ola~ 33:NO ~31:20190184 ~32:11/02/2019

2021/04557 ~ Complete ~54:TENSION SENSOR ~71:NEMTEK (PTY) LTD, Suite 125, Private Bag X7, Northriding, South Africa ~72: MANIOUDAKIS, Nicolas~ 33:ZA ~31:2019/00680 ~32:01/02/2019

2021/04560 ~ Complete ~54:COFFEE GRINDING MACHINE CONFIGURED TO PROVIDE A DOSE OF STRATIFIED GROUND COFFEE AND ASSOCIATED METHOD ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA (FI) 50038, ITALY, Italy ~72: ANGELONI, Giulia;DIONISIO, Andrea;GATTI, Riccardo;GUERRINI, Lorenzo;PARENTI, Alessandro~ 33:IT ~31:102019000000591 ~32:15/01/2019

2021/04561 ~ Complete ~54:IRE1 SMALL MOLECULE INHIBITORS ~71: Cornell University, 395 Pine Tree Road, Suite 310, ITHACA 14850, NY, USA, United States of America ~72: BETTIGOLE, Sarah;VACCA, Joseph P.~ 33:US ~31:62/774,794 ~32:03/12/2018

2021/04566 ~ Complete ~54:ROCK DRILLING ARRANGEMENT AND MACHINE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: H&#196;M&#196;L&#196;INEN, Mikko;KOSKIM&#196;KI, Antti;VIINIKKA, Matti~ 33:EP ~31:19162773.6 ~32:14/03/2019

2021/04569 ~ Complete ~54:APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT FOR DESIGNING BLASTING ORDER ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: MUONA, Jouko;MYLLYL&#196;, Juha-Matti~ 33:EP ~31:19155032.6 ~32:01/02/2019

2021/04571 ~ Complete ~54:INORGANIC FIBER FORMED BODY, MAT FOR EXHAUST GAS PURIFICATION DEVICE, AND EXHAUST GAS PURIFICATION DEVICE ~71:MITSUBISHI CHEMICAL CORPORATION, 1-1, Marunouchi 1-Chome Chiyoda-ku, Tokyo, 1008251, Japan ~72: HIROKAZU MORITA;HIROMITSU TSUTSUI;KAZUNORI KAWAHARA;MASANOBU YOMOGIDA;YUSUKE KIMURA~ 33:JP ~31:2019-144390 ~32:06/08/2019;33:JP ~31:2020-092409 ~32:27/05/2020

2021/04574 ~ Complete ~54:SHIP-TYPE-SPOOFING DETECTION METHOD EMPLOYING ENSEMBLE LEARNING ~71:NANJING LES CYBERSECURITY AND INFORMATION TECHNOLOGY RESEARCH INSTITUTE CO. LTD., Building 05, Tian&#39;an Digital City, No.36, Yongfeng Avenue, Qinhua District Nanjing, Jiangsu, 210000, People's Republic of China ~72: CHANGLI SHEN;RAN DUAN;WEIZHEN WANG;YUAN SUI;ZHENG BAI~ 33:CN ~31:201910687682.0 ~32:29/07/2019

2021/04577 ~ Complete ~54:TREATMENT OF PITT-HOPKINS SYNDROME ~71:HEALX LIMITED, Charter House, 66-68 Hills Road, United Kingdom ~72: BROWN, David~ 33:GB ~31:1902579.0 ~32:26/02/2019

2021/04539 ~ Complete ~54:HIGH-PERFORMANCE GROUND SOURCE HEAT PUMP TESTING SYSTEM AND OPERATION METHOD THEREOF ~71:Anhui University of Science and Technology, No. 168, Taifeng Avenue, Huainan City, Anhui Province, People's Republic of China ~72: Han Xiao;Huang Xianwen;Li Wei;Su Yi;Wang Xuesong;Xu Yongjie;Yao Zhishu;Zhang Xiaowu~

2021/04555 ~ Complete ~54:HIGHLY ACTIVE AND HIGHLY SELECTIVE COPPER EXTRUDATE CATALYSTS  
~71:BASF CORPORATION, 100 PARK AVENUE, FLORHAM PARK, 07932, USA, United States of America ~72:  
BACIAK, Jeffrey, S.;CHEN, Jian-ping;HEDRICK, Scott;SCHAACK, Bernd, Bastian~ 33:US ~31:62/774,609  
~32:03/12/2018

2021/04529 ~ Provisional ~54:A SECURITY STRUCTURE ~71:Manocon Building Construction (Pty) Ltd, Stand  
2567, Van der Lith Street, Industrial Area, LOUIS TRICHARDT 0920, SOUTH AFRICA, South Africa ~72:  
BRIERS, Andries Theodorus~

2021/04541 ~ Complete ~54:PREPARATION METHOD OF AG-AGBR/ TIO<sub>2</sub> COMPOSITE NANOROD ARRAY  
FILM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui  
Province, 232001, People's Republic of China ~72: Cheng, Xiang;Gao, Juan;Li, Mengting;Liu, Yin;Wang, Yanfen~

2021/04545 ~ Complete ~54:APPLICATION OF PHYSALIS PUBESCENS PERSISTENT CALYX EXTRACT  
~71:JINZHOU MEDICAL UNIVERSITY, NO.40, SECTION 3, SONGPO ROAD, LINGHE DISTRICT, LIAONING  
PROVINCE, People's Republic of China ~72: JINGJING WANG~ 33:CN ~31:2021104764688 ~32:29/04/2021

2021/04548 ~ Complete ~54:POWER SCREEN PROTECTOR ~71:COLEMAN, Johnathan, 5218 LOTUS  
STREET, HOUSTON TX 77405, USA, Germany ~72: ALEXANDER, Lael;COLEMAN, Johnathan~

2021/04556 ~ Complete ~54:INSTRUMENT MOUNT MOVABLE PLATFORM COMPRISING SUCH  
INSTRUMENT MOUNT AND USE OF SUCH INSTRUMENT MOUNT ~71:DST CONTROL AB,  
&#197;kerbogatan 10, Sweden ~72: STR&#214;MBERG, Jan-Erik~ 33:EP ~31:18445001.3 ~32:28/12/2018

2021/04578 ~ Provisional ~54:EAR BUBBLE-BUFF ~71:Desiree Erwee, 299 Dey Street, South Africa ~72:  
Desiree Erwee~

2021/04535 ~ Complete ~54:METHOD AND DEVICE FOR IDENTIFY FUNCTIONAL MODULES IN DYNAMIC  
PROTEIN NETWORK ~71:Xiangya Third Hospital of Central South University, Tongzipo Road, Yuelu District,  
Changsha City, Hunan Province, People's Republic of China ~72: Ding Changsong;Li Bo;Li Peng;Liu Juan;Luo  
Aijing;Min Hui;Ouyang Wei;Xue Juan;Yi Na;Zhong Zhuqing~

2021/04547 ~ Complete ~54:METHOD FOR DYNAMICALLY ADJUSTING BEDDING PRE-DRAINAGE  
BOREHOLE DISTRIBUTION PARAMETERS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY,  
NO.168 TAIFENG STREET, People's Republic of China;CCTEG CHONGQING RESEARCH INSTITUTE, NO.179  
DAPING CHANGJIANG 2ND ROAD, People's Republic of China ~72: CAO, JIANJUN;GUO, LINDONG;LI,  
CHENGCHENG;LI, SHENGZHOU;LI, SIQIAN;LIU, JUN;LIU, XIAO;LU, ZHANJIN;MENG, XIANZHENG;NIU,  
XINGANG;SHI, BIMING;WANG, ZHONGHUA;XU, JUNJIAN;XU, ZUNYU;YANG, HUIMING;YUAN,  
BENQING;ZHANG, YONGJIANG;ZHANG, ZHIGANG;ZHAO, YI~

2021/04559 ~ Complete ~54:METHOD AND DEVICE FOR STRAIGHTENING WIRE OR STRIP MATERIAL  
~71:EVG Entwicklungs- u. Verwertungs-Gesellschaft m.b.H, Gustinus-Ambrosi-Stra&#223;e 1-3, RAABA 8074,  
AUSTRIA, Austria ~72: M&#220;HLENFELD, Arndt;RESCH, Walter~ 33:AT ~31:A 77/2019 ~32:28/02/2019

2021/04567 ~ Complete ~54:PEPTIDE LIBRARIES AND METHODS OF USE THEREOF ~71:Repertoire Immune  
Medicines, Inc., 26 Landsdowne Street, CAMBRIDGE 02139, MA, USA, United States of America ~72:  
AFZELIUS, Ellen Lovisa Larsdotter;GORDON, William Michael;HU, Gang;MATRANGA, Christian B.;ROTEM,  
Assaf;SWAIN, Joanna Feltham~ 33:US ~31:62/788,678 ~32:04/01/2019;33:US ~31:62/791,601  
~32:11/01/2019



2021/04575 ~ Complete ~54:PERMANENT ECO-FERTILIZER AGAINST FRUIT PHYSIOLOGICAL DISORDERS AND PESTS ~71:S.A. REVERT&#201; PRODUCTOS MINERALES, Afores s/n, 08729, Castellet I La Gornal , Barcelona, Spain ~72: ARCADIO PRIETO GIG&#211;~ 33:EP ~31:19382016.4 ~32:11/01/2019

2021/04540 ~ Complete ~54:FUSE CUTOOUT MONITORING DEVICE ~71:THE TRUSTEES FOR THE TIME BEING OF THE LIVE LINE INTERNATIONAL TRUST, Acclaim House, 12 Mount Havelock, DOUGLAS IM1 2QG, ISLE OF MAN, Isle of Man ~72: RISI, Kevin Philip;RISI, Philip Edward Lawrence;RISI, Shaun Lawrence~ 33:ZA ~31:2020/04032 ~32:02/07/2020

2021/04546 ~ Complete ~54:A DETECTION DEVICE SUITABLE FOR MEASURING METHANE GAS IN COAL MINE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Anhui Province, People's Republic of China ~72: CAO, Jianbing;CAO, Yanan;CHENG, Gang;FENG, Zhaohe;QIAN, Chao;TIAN, Xing;ZHOU, Junpeng~ 33:CN ~31:202110239099.0 ~32:04/03/2021

2021/04562 ~ Complete ~54:ATMOSPHERIC WATER GENERATOR APPARATUS ~71:The University of Tulsa, 800 South Tucker Drive, TULSA 74104, OK, USA, United States of America ~72: GALBRAITH, John;OTANICAR, Todd~ 33:US ~31:62/774,536 ~32:03/12/2018;33:US ~31:16/371,508 ~32:01/04/2019;33:US ~31:16/587,269 ~32:30/09/2019

2021/04572 ~ Complete ~54:PROCESS FOR PRODUCING METHANOL ~71:CREATIVEQUANTUM GMBH, Am Studio 2, 12489, Berlin, Germany;LEIBNITZ-INSTITUT F&#220;R KATALYSE E.V., Albert-Einstein-Str. 29 a 18059 Rostock, Germany ~72: KATHRIN JUNG;MAREK PAWEL CHECINSKI;MATTHIAS BELLER;PAVEL RYABCHUK~ 33:DE ~31:10 2018 133 689.6 ~32:28/12/2018

2021/04532 ~ Provisional ~54:A COMPOSITE CONDUCTOR ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Staatsartillerie Street, South Africa ~72: AIGBODION, Victor;POPOOLA, Abimbola Patricia Idowu;POPOOLA, Olawale Muhammed;UJAH, Chika Oliver~

2021/04576 ~ Complete ~54:DELIVERY SYSTEM AND METHOD FOR SUCH DELIVERY SYSTEM ~71:GO-PEN APS, Stormlugen 4B, Denmark ~72: EJSTRUP HANSEN, Michael;KJERKEGAARD NIELSEN, Ole~ 33:DK ~31:PA201900097 ~32:23/01/2019

2021/04564 ~ Complete ~54:SYSTEMS AND METHODS FOR HOME TRANSDERMAL GFR MONITORING ~71:MediBeacon Inc., 1100 Corporate Square Drive, Helix Center, Suite 175, ST. LOUIS 63132, MO, USA, United States of America ~72: DORSHOW, Richard B.;HANLEY, Steven J.;STERN, Terrence~ 33:US ~31:62/797,543 ~32:28/01/2019

2021/04568 ~ Complete ~54:SYSTEMS AND METHODS FOR MODULATING RNA ~71:The University of Chicago, 5801 South Ellis Avenue, CHICAGO 60637, IL, USA, United States of America ~72: DICKINSON, Bryan C.;RAUCH, Simone~ 33:US ~31:62/788,571 ~32:04/01/2019;33:US ~31:62/831,342 ~32:09/04/2019;33:US ~31:62/903,080 ~32:20/09/2019;33:US ~31:62/929,339 ~32:01/11/2019

2021/04573 ~ Complete ~54:VEHICLE-MOUNTED TERMINAL CAPABLE OF DISPLAYING TRAFFIC LIGHT INFORMATION OF INTERSECTION AHEAD IN REAL TIME ~71:NANJING LES CYBERSECURITY AND INFORMATION TECHNOLOGY RESEARCH INSTITUTE CO. LTD., Building 05, Tian&#39;an Digital City, No.36, Yongfeng Avenue, Qinhuai District Nanjing, Jiangsu, 210000, People's Republic of China ~72: HONGSHAN WANG;JIANSHUN CUI;QINGSHAN MAN;WEI BEN;WEIHAO DING;WENCHAO ZHENG~ 33:CN ~31:201910827745.8 ~32:03/09/2019

- APPLIED ON 2021/07/01 -

2021/04579 ~ Provisional ~54:A SUPPORT ASSEMBLY ~71:OHM ASSET HOLDINGS (PTY) LTD, 431 RUPERT STREET, BROOKLYN, PRETORIA, 0181, REPUBLIC OF SOUTH AFRICA, South Africa ~72: BOTHMA, Riaan, Cornelius;KAPLAN, Morris~

2021/04581 ~ Provisional ~54:CONSUMABLE MONITORING SYSTEM ~71:GASCO (PTY) LTD., 11 Aston Road, Lonehill, Upper East, 2062, South Africa ~72: CORNELIS JOHANNES PEROLD~

2021/04585 ~ Complete ~54:AN APPARATUS FOR HIGH-SULFUR COAL MICROBIAL DESULFURIZATION PROCESS ~71:Anhui University of Science and Technology, No.168 Taifeng Street, Huainan, Anhui, 232001, People's Republic of China ~72: Liyi Fang;Mingxu Zhang~

2021/04597 ~ Complete ~54:METHOD FOR PROCESSING A STREAM OF DATA IN A RECEIVER DEVICE ~71:COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, Bâtiment "Le Ponant D", 25 rue Leblanc, 75015, Paris, France;DAVEY BICKFORD, Le Moulin Gaspard, 89550, Hery, France ~72: VALERIAN MANNONI~ 33:FR ~31:1872208 ~32:03/12/2018

2021/04599 ~ Complete ~54:PATIENT SPECIFIC INSTRUMENTS AND METHODS OF USE ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: ALLARD, Randy;BARMES, Francis D.;DALTON, Mark Ray;DOUGLAS, Joseph;KANNARD, Aaron;LEE, Daniel J.~ 33:US ~31:62/779,436 ~32:13/12/2018;33:US ~31:62/890,611 ~32:22/08/2019

2021/04603 ~ Complete ~54:RESECTION GUIDES, SWEEPING REAMERS, AND METHODS FOR USE IN TOTAL ANKLE REPLACEMENT ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: BARMES, Francis D.;CHRISTENSEN, Jeffrey;DACOSTA, Albert;DOUGLAS, Joseph;LEE, Daniel J.~ 33:US ~31:62/779,436 ~32:13/12/2018;33:US ~31:62/898,615 ~32:11/09/2019

2021/04606 ~ Complete ~54:VITAMIN D MICRO-EMULSIONS AND USES THEREOF ~71:LIPICARE LIFE SCIENCES LTD, Kiyat Atidim, Building 7, Entrance 1, 2nd Floor, Israel ~72: EZRA, Rafael;MANOR, Yoni~ 33:US ~31:62/776,022 ~32:06/12/2018

2021/04584 ~ Provisional ~54:ENDOSCOPE ASSEMBLY ~71:GROBLER, Johannes Stephanus, 212 Althea Street, Murrayfield, PRETORIA 0184, Gauteng, SOUTH AFRICA, South Africa ~72: GROBLER, Johannes Stephanus~

2021/04596 ~ Complete ~54:APPARATUS FOR SECURING DEVICE TO TRANSMISSION LINES ~71:BALMORAL ENGINEERING PTY LTD, 1/38LeightonPlace,Hornsby, Australia ~72: DENGATE, Chris;MESITI, Enzo;;SOLARI, Clive~ 33:AU ~31:2019900101 ~32:14/01/2019

2021/04600 ~ Complete ~54:JOINT REPLACEMENT ALIGNMENT GUIDES, SYSTEMS AND METHODS OF USE AND ASSEMBLY ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: LEE, Daniel J.~ 33:US ~31:62/779,436 ~32:13/12/2018;33:US ~31:62/899,655 ~32:12/09/2019;33:US ~31:62/899,703 ~32:12/09/2019;33:US ~31:62/899,740 ~32:12/09/2019

2021/04607 ~ Complete ~54:SECTIONAL CONTROL FOR AIR BOOM SPREADER ~71:SALFORD GROUP INC, 364018 McBeth Road Salford, Canada ~72: AVERINK, John Mark;BAKER, Bradley William;DYCK, Jesse Abram;GOVEIA, Simon;GRAY, Geof J.;LEHMAN, Adam Peter;PASMA, Chad Derek;POPPE, Christopher Michael;STRAATMAN, Troy Michael~ 33:US ~31:62/793,698 ~32:17/01/2019

2021/04583 ~ Provisional ~54:CONTOUR MAKER ~71:VAN DE MERWE, Christiaan Hendrik Gert, 1 Wilge Lane, South Africa ~72: VAN DE MERWE, Christiaan Hendrik Gert~

2021/04592 ~ Complete ~54:AEROSOL-GENERATING ARTICLE COMPRISING A HOLLOW TUBULAR SUPPORT ELEMENT ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: PAPAKYRILLOU, Stefanos~ 33:EP ~31:19167405 ~32:04/04/2019

2021/04608 ~ Provisional ~54:COLLAPSIBLE/ADJUSTABLE BARBEQUE ~71:BLUE GEAR IMPORTS (PTY) LTD, G10 SUNRISE PARK, SUNRISE CIRCLE, South Africa ~72: IZAK BARTHLOMEUS OOSTHUIZEN~

2021/04587 ~ Complete ~54:A Z-SHAPED PIEZOELECTRIC TRANSDUCER ~71:Northwestern Polytechnical University, No.127, West Youyi Road, Beilin District, Xi'an City, Shaanxi Province, People's Republic of China ~72: Teng Duo;Yang Yixin~

2021/04595 ~ Complete ~54:WEAR PART AND LOCK ASSEMBLY ~71:KEECH CASTINGS AUSTRALIA PTY LIMITED, 30-46 Powell Street, Bendigo, Australia ~72: GIUDICE, Luke, Daniel;HEBBAR, Balamurali, Manjil~ 33:AU ~31:2018904660 ~32:07/12/2018

2021/04590 ~ Complete ~54:AN ILLUMINATION DEVICE ~71:GOVENDER, Tharreshnee, 28 Myrtle Place, Brindhaven, Verulam, Durban, SOUTH AFRICA, South Africa ~72: GOVENDER, Tharreshnee;MANILAL, Heeran~ 33:ZA ~31:2020/04009 ~32:01/07/2020

2021/04580 ~ Provisional ~54:ADVANCED CHARGE TRANSFER MEASUREMENT TECHNIQUES ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;RADEMEYER, Daniel Barend~

2021/04582 ~ Provisional ~54:METHOD OF ROUTE MANAGEMENT ~71:Storage Management Systems (Pty) Ltd, 105 Sovereign Drive, Route 21 Corporate Park, Irene, Pretoria, 0157, South Africa ~72: Tudor Drummond Wolff~

2021/04586 ~ Complete ~54:MODEL DEVICE FOR TESTING PERFORMANCE OF THERMAL INSULATION MATERIALS OF DOUBLE FREEZING PIPES UNDER VERTICAL GROUND STRESS ~71:Anhui University of Science and Technology, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Chang Yu;Gao Cong;Meng Xiangqian;Xue Weipei;Zhang Hanwen~

2021/04594 ~ Complete ~54:FORMULATIONS OF 4-(7-HYDROXY-2-ISOPROPYL-4-OXO-4H-QUINAZOLIN-3-YL)-BENZONITRILE ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BULLOCK, Joseph, Paul;MAHESHWARI, Chinmay;MEDLEY, Quintus;MOGI, Muneto;MONTECCHI-PALMER, Michela;STASI, Kalliopi~ 33:US ~31:62/806,705 ~32:15/02/2019

2021/04601 ~ Complete ~54:ALIGNMENT INSTRUMENTS AND METHODS FOR USE IN TOTAL ANKLE REPLACEMENT ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: ALLARD, Randy;BARMES, Francis D.;DACOSTA, Albert;DALTON, Mark Ray;DOGU, Joseph;LEE, Daniel J.;RAYMOND, Spanky~ 33:US ~31:62/779,436 ~32:13/12/2018;33:US ~31:62/899,655 ~32:12/09/2019

2021/04605 ~ Complete ~54:TRIAL INSERT ASSEMBLY ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: ALLARD, Randy;DALTON, Mark Ray~ 33:US ~31:62/779,092 ~32:13/12/2018;33:US ~31:62/779,436 ~32:13/12/2018;33:US ~31:62/899,646 ~32:12/09/2019

2021/04593 ~ Complete ~54:METHODS FOR TREATING OCULAR SURFACE PAIN ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: MEDLEY, Quintus;MOGI, Muneto;MONTECCHI-PALMER, Michela;STASI, Kalliopi~ 33:US ~31:62/806,682 ~32:15/02/2019



2021/04598 ~ Complete ~54:INSTRUMENTS, GUIDES AND RELATED METHODS FOR TOTAL ANKLE REPLACEMENT ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: DALTON, Mark Ray;DOGU&#201;; Joseph;LEE, Daniel J.~ 33:US ~31:62/779,092 ~32:13/12/2018;33:US ~31:62/898,854 ~32:11/09/2019

2021/04602 ~ Complete ~54:JOINT REPLACEMENT ALIGNMENT GUIDES, SYSTEMS AND METHODS OF USE AND ASSEMBLY ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: DOGU&#201;; Joseph;LEE, Daniel J.;RAYMOND, Spanky~ 33:US ~31:62/779,436 ~32:13/12/2018;33:US ~31:62/899,655 ~32:12/09/2019;33:US ~31:62/899,703 ~32:12/09/2019;33:US ~31:62/899,740 ~32:12/09/2019

2021/04604 ~ Complete ~54:DISTRACTORS HAVING ATTACHABLE PADDLES, IMPACTION DEVICES, AND METHODS FOR USE IN TOTAL ANKLE REPLACEMENT ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: CHRISTENSEN, Jeffrey;DALTON, Mark Ray;DOGU&#201;; Joseph;KANNARD, Aaron;LEE, Daniel J.~ 33:US ~31:62/779,092 ~32:13/12/2018;33:US ~31:62/779,436 ~32:13/12/2018;33:US ~31:62/898,854 ~32:11/09/2019

2021/04589 ~ Complete ~54:CONCRETE MIXER ~71:LUNOEL TRADING (PTY) LIMITED, Unit 15, Pecanwood Industrial Estate, 3 Woodlands Drive, South Africa ~72: LAMPRECHT, Hendrik Oostenwald Johannes~

2021/04591 ~ Complete ~54:AN ORAL HYGIENE TABLET ~71:BARNARDT, Chrismarie, 405 The Seapointer, 11 Marais Road, Sea Point, South Africa ~72: BARNARDT, Chrismarie;DE LANGE, Yvonne~

2021/04588 ~ Complete ~54:SLIME WATER PRE-GRADING DESLIMING POOL ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: HAN, Youli;WANG, Chao;WANG, Po;WANG, Xing;ZHOU, Wei;ZHU, Hongzheng;ZHU, Jinbo~

- APPLIED ON 2021/07/02 -

2021/04613 ~ Complete ~54:A METHOD OF COAL GANGUE IMAGES CLASSIFICATION BASED ON FEATURE MAP DIMENSIONALITY REDUCTION ~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~

2021/04615 ~ Complete ~54:CONTINUOUS QUANTITATIVE FEEDER ~71:CHUZHOU ANRI\_HUILONG ELECTRONIC CO., LTD., No. 788 South of Suzhou Road, Chuzhou City, Anhui, 239000, People's Republic of China ~72: QIKUI YANG~ 33:CN ~31:202010883370.X ~32:28/08/2020

2021/04621 ~ Complete ~54:DEVICE AND METHOD FOR WIRELESS POWER TRANSFER ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: ETTES, Wilhelmus Gerardus Maria;VAN VUGT, Henricus Antonius Gerardus;VELTMAN, Eddy Gerrit~ 33:EP ~31:18210392.9 ~32:05/12/2018

2021/04625 ~ Complete ~54:USE OF OLIGONUCLEOTIDES FOR THE TREATMENT OF TUMOURS ~71:HAEMES VERWALTUNGSGESELLSCHAFT MBH, Winterhuder Marktplatz 6-7, Germany ~72: Heinrich Maria SCHULTE~ 33:DE ~31:10 2019 000 490.6 ~32:23/01/2019

2021/04609 ~ Provisional ~54:TURBINE ARRANGEMENT ~71:HEAD START POWER SOLUTIONS (PTY) LTD., Shop 34 Ifafi Business Centre, 81 Die Ouwapad Street, HARTEBESPOORT 0260, North West Province, SOUTH AFRICA, South Africa ~72: SCHMIDT, Melvin~

2021/04612 ~ Complete ~54:ONLINE MONITORING EQUIPMENT FOR MARINE INSTRUMENTS ~71:Shanghai Ocean University, No.999, Huchenghuan Rd, Nanhui New City, Shanghai, People's Republic of China ~72: Chen Leilei;Hu Qingsong;Li Jun;Tan Genghao~

2021/04623 ~ Complete ~54:ENGINEERING MONOCLONAL ANTIBODIES TO IMPROVE STABILITY AND PRODUCTION TITER ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: AGRAWAL, Neeraj Jagdish;ESTES, Bram;STEVENS, Jennitte LeAnn;TEMEL, Deniz~ 33:US ~31:62/787,867 ~32:03/01/2019

2021/04630 ~ Complete ~54:MIXED BINDING DOMAINS ~71:MERUS N.V., Yalelaan 62, Netherlands ~72: DE KRUIF, Cornelis Adriaan~ 33:EP ~31:18215995.4 ~32:31/12/2018

2021/04619 ~ Complete ~54:CAPSULE FOR FOOD OR BEVERAGE PREPARATION HAVING A DISPLACEABLE MEMBRANE FOR ENGAGEMENT WITH OPENING MEANS ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BOSS, Christophe;NORDQVIST, David~ 33:EP ~31:18211863.8 ~32:12/12/2018

2021/04626 ~ Complete ~54:IMPROVEMENTS IN STUB/STUMP CRUSHER WITH A REGULATOR OF ESCAVATION LEVEL ~71:AGROTRITUS LOCA&#199;&#194;O E COMERCIO, LTDA, Avenida Sete de Setembro 4995 Batel, Curitiba, Brazil ~72: PINA CABRITA DA SILVA RIBEIRO, Manuel~ 33:MZ ~31:MZ/P/2018/000565 ~32:05/12/2018

2021/04684 ~ Provisional ~54:ROOF BOLTER ~71:DDT MECHANISED MINING SERVICES (PTY) LTD, 34 PANNERS LANE, 2 HUMEWOOD LINKS, RIVERCLUB, South Africa ~72: DENNIS VAN NIEKERK~

2021/04616 ~ Complete ~54:ULTRASONIC DETECTION METHOD AND SYSTEM FOR PARTIAL DISCHARGE OF POWER DISTRIBUTION NETWORK ~71:BEIJING GUOWANG FUDA SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD., 13 Floor, Zone 6, No. 188, South Fourth Ring West Road, Fengtai District, Beijing, 100071, People's Republic of China ~72: BAI, Wenyan;GUI, Feifei;HE, Hongtai;HE, Weifeng;HUANG, Zhiyong;LIU, Kang;QIN, Yuanxun;WANG, Jin;XIONG, Peng;XUE, Ling;ZHANG, Fagang;ZHANG, Guangdong;ZHANG, Taoyun;ZHANG, Yugang~ 33:CN ~31:202010596194.1 ~32:28/06/2020

2021/04610 ~ Complete ~54:METHOD FOR REDUCING DAMAGE OF VEGETATION ROOTS DURING SURFACE COLLAPSE IN MINING AREA ~71:Anhui University of Science and Technology, No.168 Taifeng Road, Huainan City, Anhui Province, People's Republic of China;Huaibei Mining (Group) Co., Ltd., No.267 Renmin Road, Huaibei City, Anhui Province, People's Republic of China ~72: Dong Xianglin;Fan Tingyu;Yan Jiaping~

2021/04620 ~ Complete ~54:STABLE AQUEOUS COMPOSITION COMPRISING OLIGOSACCHARIDES ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: MARZORATI, Mattia;SPRENGER, Norbert~ 33:EP ~31:18212616.9 ~32:14/12/2018

2021/04624 ~ Complete ~54:THERMAL ENERGY STORAGE APPARATUS ~71:GRAPHITE SOLAR POWER PTY LIMITED, Level 2, 420 Elizabeth Street, Australia ~72: CHAO, Jun;KHOO, Paul Soo-Hock~ 33:AU ~31:2019900074 ~32:09/01/2019

2021/04628 ~ Complete ~54:HANDLING RADIO RESOURCE CONTROL REJECTIONS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: DA SILVA, Icaro L. J.;MILDH, Gunnar;NAKARMI, Prajwol Kumar;STATTIN, Magnus~ 33:US ~31:62/794,910 ~32:21/01/2019

2021/04627 ~ Complete ~54:THE USE OF AN OIL-BASED COMPOSITION FOR REDUCING AMMONIA VOLATILIZATION IN UREA-BASED FERTILIZER APPLICATION ~71:YARA UK LIMITED, Harvest House, Origin Way, United Kingdom ~72: BECERRA, Andres Felipe Rangel;GAJIĆ, Ana;KWAST, Anke;WARD, Stuart~ 33:GB ~31:1903755.5 ~32:19/03/2019

2021/04614 ~ Complete ~54:BROADBAND SATELLITE COMMUNICATION SYSTEM USING OPTICAL FEEDER LINKS ~71:VIASAT, INC., Patent Department, 6155 El Camino Real, Carlsbad, California, 92009, United States of America ~72: AARON MENDELSON~ 33:US ~31:62/273,730 ~32:31/12/2015

2021/04617 ~ Complete ~54:PHARMACEUTICAL COMPOUND, THE METHOD OF ITS MAKING AND USE AS MEDICINAL AGENT ~71:POZIGUN, Dmytro, Deribasovskaya Street, 4/9, ODESSA 65026, ODESSA REGION, UKRAINE, Ukraine;REDER, Anatoliy, Yasnaya Street, 13/34, ODESSA 65012, ODESSA REGION, UKRAINE, Ukraine ~72: POZIGUN, Dmytro;REDER, Anatoliy~ 33:UA ~31:a 2018 12659 ~32:20/12/2018

2021/04622 ~ Complete ~54:SUBSTITUTED PYRROLIDINE AMIDES III ~71:Gr&#252;nenthal GmbH, Zieglerstr. 6, AACHEN 52078, GERMANY, Germany ~72: ALEN, Jo;BARBIE, Philipp;FRIEBE, Daniela;HENNEN, Stephanie;JAKOB, Florian;KR&#220;GER, Sebastian~ 33:EP ~31:19151406.6 ~32:11/01/2019;33:EP ~31:19152282.0 ~32:17/01/2019;33:EP ~31:19181203.1 ~32:19/06/2019

2021/04629 ~ Complete ~54:SEAMLESS CAPSULE, AND FILTER AND SMOKING DEVICE INCLUDING SAME ~71:SUNSHO PHARMACEUTICAL CO., LTD., 1468, Atsuhara, Fuji-shi, Shizuoka, 4190201, Japan ~72: KENICHI KOYAMA~ 33:JP ~31:2019-006785 ~32:18/01/2019;33:JP ~31:PCT/JP2019/016612 ~32:18/04/2019

2021/04611 ~ Complete ~54:DESIGN METHOD FOR INITIAL FILLING ELEVATION OF THE SUBSIDENCE LAND RECLAMATION WITH COAL GANGUE FILLING ~71:Anhui University of Science and Technology, No.168 Taifeng Road, Huainan, Anhui Province, People's Republic of China ~72: Guo Hui;Yan Jiaping~

2021/04618 ~ Complete ~54:PRESSURE STABILIZER ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: LOBEDANN, Martin;SCHWAN, Peter;STEINMEISTER, Ingo~ 33:EP ~31:18210543.7 ~32:05/12/2018

- APPLIED ON 2021/07/05 -

2021/04637 ~ Provisional ~54:MODULAR RAIL JUMP SETS ~71:Leon Harmsen, 18 Trevor Street, South Africa ~72: Leon Harmsen~ 33:ZA ~31:A ~32:03/07/2021

2021/04656 ~ Complete ~54:DEUTERATED FORMS AND DERIVATIVES OF VOLINANSERIN ~71:CONCERT PHARMACEUTICALS, INC., 65 Hayden Avenue, Suite 3000N, United States of America ~72: HARBESON, Scott, L.;WEINTRAUB, Scott~ 33:US ~31:62/784,056 ~32:21/12/2018

2021/04664 ~ Complete ~54:LIPIDS FOR LIPID NANOPARTICLE DELIVERY OF ACTIVE AGENTS ~71:Acuitas Therapeutics, Inc., 6190 Agronomy Rd., Suite #402, University of British Columbia - KETR, VANCOUVER V6T 1W5, BRITISH COLUMBIA, CANADA, Canada ~72: DU, Xinyao~ 33:US ~31:62/791,566 ~32:11/01/2019;33:US ~31:62/890,469 ~32:22/08/2019

2021/04665 ~ Complete ~54:METHOD FOR INDICATING VECTORS USED TO CONSTRUCT PRECODING VECTOR AND COMMUNICATIONS APPARATUS. ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang, GUANGDONG 518129, SHENZHEN, CHINA (P.R.C.), People's Republic of China ~72: BI, Xiaoyan;JIN, Huangping;WANG, Xiaohan~ 33:CN ~31:201811641071.4 ~32:29/12/2018;33:CN ~31:201910169583.3 ~32:06/03/2019;33:CN ~31:201910224252.5 ~32:22/03/2019

2021/04636 ~ Provisional ~54:APPARATUS AND SYSTEM FOR PRODUCING AND SEPARATING GASES  
~71:HYDROX HOLDINGS LIMITED, 32 Ida Street, Menlyn, South Africa ~72: CUOMO, Jason, Raphael;DE  
JAGER, Cornelis, Johannes;GILLESPIE, Ivor, Malcolm~

2021/04643 ~ Complete ~54:MAYONNAISE WITH LOW GREASY TASTE AND PREPARATION METHOD  
THEREOF ~71:Hangzhou Normal University, Cangqian, Yuhang District, Hangzhou City, Zhejiang Province,  
People's Republic of China ~72: Xu Jiyin;Xu Mingfeng;Zhu Qin~

2021/04655 ~ Complete ~54:METHOD FOR PRODUCING A TEREPHTHALATE POLYESTER FROM A  
MONOMERIC MIXTURE COMPRISING A DIESTER ~71:IFP ENERGIES NOUVELLES, 1 & 4 avenue du  
Bois-Pré, 92333, France ~72: GAUTHIER, Thierry;THINON, Olivier~ 33:FR ~31:1901023 ~32:01/02/2019

2021/04653 ~ Complete ~54:PRE-MIXED ABRASIVE WATER JET MACHINING METHOD FOR CUTTING  
TUNGSTEN PLATE FOR FUSION REACTOR ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.  
168, Taifeng Street, Anhui Province, People's Republic of China ~72: WANG, Li;WANG, Yan;XIE, Huaibei;YANG,  
Hongtao;ZHANG, Guorong~

2021/04667 ~ Complete ~54:HYBRID HYDROGEN POWER MODULE ~71:Anglo American Technical &  
Sustainability Services Limited, 20 Carlton House Terrace, LONDON SW1Y 5AN, UNITED KINGDOM, United  
Kingdom ~72: SOLES, Julian Jeremy;VOORHEES, Christopher Jason~ 33:GB ~31:1914406.2 ~32:04/10/2019

2021/04671 ~ Complete ~54:DISPOSABLE INHALATION DEVICE THAT RELEASES SMOKE WHICH IS NOT  
DIRECTLY INHALED ~71:TRPESKI, Sasho, ul. Zenevska No. 6-5, 1000, Skopje, The former Yugoslav Republic  
of Macedonia ~72: TRPESKI, Sasho~ 33:MK ~31:MK/P/2018/000726 ~32:14/09/2018

2021/04677 ~ Complete ~54:BREATH ALCOHOL CONTENT DEVICE SECURITY AND SENSING ~71:LIFELOC  
TECHNOLOGIES, INC., 12441 West 49th Avenue Suite 4, Wheat Ridge, Colorado, 80033, United States of  
America ~72: MARK ANTHONY LARY;WAYNE ROBERT WILLKOMM~ 33:US ~31:62/790,902 ~32:10/01/2019

2021/04673 ~ Complete ~54:METHODS FOR TREATING CANCER RESISTANT TO CDK4/6 INHIBITORS  
~71:RADIUS PHARMACEUTICALS, INC., 22 Boston Wharf Road, 7th Floor, Boston, Massachusetts, 02210,  
United States of America ~72: HEIKE ARLT;HITISHA PATEL;NIANJUN TAO;TEERU BIHANI~ 33:US  
~31:62/776,323 ~32:06/12/2018

2021/04633 ~ Provisional ~54:SAFE RELEASE DISLODGING WIRE ROPE PULLEY SYSTEMS ~71:Leon  
Harmsen, 18 Trevor Street, South Africa ~72: Leon Harmsen~ 33:ZA ~31:A ~32:03/07/2021

2021/04640 ~ Complete ~54:METHOD AND SYSTEM FOR DEMULSIFICATION OF WASTE OIL EMULSION BY  
CHAOTIC FREQUENCY PULSED ELECTRIC FIELD ~71:Chongqing Technology and Business University, No.  
69 Xuefu Avenue, Nan'an District, Chongqing, People's Republic of China ~72: Gong Haifeng;Liao  
Zhixiang;Liu Yunqi;Peng Ye~

2021/04634 ~ Provisional ~54:ANIMAL FEEDER INSERT ~71:KERRIDGE, Michael, Charles, SCHERP ARABIE  
743, MARBLE HALL, 0450, LIMPOPO, SOUTH AFRICA, South Africa ~72: KERRIDGE, Michael,  
Charles;STAPELBERG, Gerhard~

2021/04670 ~ Complete ~54:METHODS FOR PRODUCING C2 TO C5 PARAFFINS USING A HYBRID  
CATALYST COMPRISING GALLIUM METAL OXIDE ~71:DOW GLOBAL TECHNOLOGIES LLC, 2040 Dow  
Center Midland, United States of America ~72: ANDREWS, Kyle C.;CHOJECKI, Adam;DEWILDE, Joseph  
F.;KIRILIN, Alexey;MALEK, Andrzej;NIESKENS, Davy L.S.;POLLEFEY, Glenn;SANTOS CASTRO, Vera  
P.;YANCEY, David F.~ 33:US ~31:62/785,831 ~32:28/12/2018

2021/04646 ~ Complete ~54:DETECTION DEVICE FOR CEMENT-BASED MATERIAL PRODUCTION ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: HUANG, Guodong;SUN, Yuhua;YU, Qing;ZHANG, Xingyu~

2021/04662 ~ Complete ~54:METHOD FOR MANUFACTURING OF STAINLESS STEEL STRIPS ~71:OUTOKUMPU OYJ, Salmisaarenranta, Finland ~72: AULA, Leeni;PUUKKO, Esa~ 33:FI ~31:20195052 ~32:28/01/2019

2021/04679 ~ Complete ~54:L718 AND/OR L792 MUTANT TREATMENT-RESISTANT EGFR INHIBITOR ~71:TAIHO PHARMACEUTICAL CO., LTD., 1-27, Kandanishiki-cho, Chiyoda-ku, Tokyo, 1018444, Japan ~72: SHINICHI HASAKO;TAKAO UNO~ 33:JP ~31:2018-247131 ~32:28/12/2018

2021/04721 ~ Provisional ~54:WEARABLE DEVICES THAT ACTIVELY DISINFECT ~71:CHANG, HUEI MENG, 489 SINCLAIR FRONTAGE RD, MILPITAS, CA95035, United States of America ~72: CHANG, HUEI MENG;CHANG, ISAAC E;KWOK, LEO Y;PHAM, PHONG D~

2021/04689 ~ Complete ~54:CADMIUM METAL-ORGANIC COMPLEX WITH FLUORESCENCE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: HU, Jinsong;XIE, Tingting;XU, Qiaoling~ 33:CN ~31:202110544308.2 ~32:19/05/2021

2021/04661 ~ Complete ~54:DEVICE FOR WINDING A FLEXIBLE TUBE ~71:Patrice KANDIN, 27 cours des Alpes, France ~72: Patrice KANDIN~ 33:FR ~31:FR1900286 ~32:11/01/2019

2021/04682 ~ Complete ~54:NASAL DRUG DELIVERY DEVICE ~71:IMPEL NEUROPHARMA INC., 201 Elliott Avenue West, Suite 260, United States of America ~72: FULLER, Christopher William;HOEKMAN, John D.;KOHRLING, Craig Frederick;LAVIN, Albert Kenneth~ 33:US ~31:62/788,093 ~32:03/01/2019

2021/04639 ~ Complete ~54:APPLICATION OF ALKALOID COMPOUNDS IN PREPARING DRUGS FOR INHIBITING PLATELET AGGREGATION ~71:Guangxi Zhuang Autonomous Region, Academy of Agricultural Sciences, 174 East University road, Nanning City, 530007, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: Changbao LI;Dongqing YE;Fengjin ZHENG;Guoming LIU;Jian Sun;Jie TANG;Jiemin LI;Li Li;Ming XIN;Ping Yi;Qian CHEN;Xuemei HE;Yayuan TANG;Ying YANG;Zhichun LI;Zhugui ZHOU~ 33:CN ~31:202110055018.1 ~32:15/01/2021

2021/04642 ~ Complete ~54:GENE CHIP PROBE SET FOR DETECTION OF EDWARDSIELLA TARDA ~71:Xuzhou University Of Technology, No.2,Lishui Road, Yunlong District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Hou Jinhui;Huang Tianzi;Li Tongxiang~

2021/04648 ~ Complete ~54:ANTI-CRACKING AND ANTI-FREEZING CEMENT-BASED HOMOGENEOUS BOARD AND PROCESSING DEVICE THEREOF ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: FENG, Yongqi;HUANG, Guodong;LI, Yongyu;QI, Yue;YANG, Manyi;ZHANG, Ruijie~

2021/04683 ~ Complete ~54:METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR ~71:XRIIS CORPORATION, 508-3ho, Bdong, 230, Pangyoyeok-ro Bundang-gu, Seongnam-si, Republic of Korea ~72: LEE, Bae Keun~ 33:KR ~31:10-2019-0027938 ~32:12/03/2019;33:KR ~31:10-2019-0056770 ~32:15/05/2019

2021/04676 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING HEMOGLOBINOPATHIES ~71:BEAM THERAPEUTICS INC., 26 Landsdowne Street 2nd Floor, Cambridge, Massachusetts, 02139, United



States of America ~72: BERND ZETSCHKE;DAVID A BORN;IAN SLAYMAKER;MICHAEL PACKER;NICOLE GAUDELLI;SEUNG-JOO LEE;YI YU~ 33:US ~31:62/805,271 ~32:13/02/2019;33:US ~31:62/805,277 ~32:13/02/2019;33:US ~31:62/852,224 ~32:23/05/2019;33:US ~31:62/852,228 ~32:23/05/2019;33:US ~31:62/931,722 ~32:06/11/2019;33:US ~31:62/931,747 ~32:06/11/2019;33:US ~31:62/941,569 ~32:27/11/2019;33:US ~31:62/966,526 ~32:27/01/2020

2021/04678 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING, PREVENTING OR REVERSING AGE-ASSOCIATED INFLAMMATION AND DISORDERS ~71:BROWN UNIVERSITY, Box 1949, Providence, Rhode Island, 02912, United States of America ~72: JOHN M SEDIVY;MARCO DE CECCO~ 33:US ~31:62/797,109 ~32:25/01/2019;33:US ~31:62/907,251 ~32:27/09/2019

2021/04690 ~ Complete ~54:FLUORESCENT CADMIUM METAL ORGANIC COMPLEX AS WELL AS PREPARATION METHOD AND APPLICATIONS THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: HU, Jinsong;HUANG, Xinhua;LI, Xiaonan~ 33:CN ~31:202011280300.1 ~32:16/11/2020

2021/04635 ~ Provisional ~54:APPARATUS AND METHOD FOR PRODUCING AND SEPARATING GASES ~71:HYDROX HOLDINGS LIMITED, 32 Ida Street, Menlyn, South Africa ~72: DE JAGER, Cornelis, Johannes~

2021/04651 ~ Complete ~54:A SYSTEM AND A METHOD FOR EVALUATING COMPRESSION STRENGTH OF A MATERIAL ~71:KUMAR, Gottapu Santosh, Department of Civil Engineering, Gayatri Vidya Parishad College of Engineering (A), India;PRASHANTI, Gottapu, Andhra University College of Pharmaceutical Sciences, India ~72: KUMAR, Gottapu Santosh;PRASHANTI, Gottapu~

2021/04638 ~ Provisional ~54:HONEY INFUSED WITH CANNABIS AND/OR KOREAN GINSENG (RED GINSENG) AND/OR PHARMACEUTICALS AND/OR OTHER NATURAL HERBS ~71:LOUISE BIRKETT, 9 BAILEY WAY, EDGEMead, South Africa ~72: LOUISE BIRKETT~

2021/04663 ~ Complete ~54:AUTONOMOUS AERIAL VEHICLE FOR INTERVENTION ON ANIMALS ~71:FINKELSTEIN, Serge, 8 rue du Vercors, ARGENTEUIL 95100 , FRANCE, France ~72: FINKELSTEIN, Serge~ 33:FR ~31:1901871 ~32:25/02/2019

2021/04669 ~ Complete ~54:SYSTEM FOR ELECTROCOATING CONDUCTIVE SUBSTRATES ~71:PPG Industries Ohio, Inc., 3800 West 143rd Street, CLEVELAND 44111, OH, USA, United States of America ~72: BETHOSKI, Judith A.;FOLLET, Mark L.;HARRISON, Amy E.;HOUGH, Tod M.;HUTCHINSON, Tammy L.;SCHWARTZ, Brent A.;SCHWENDEMAN, Irina G.;SIEFER, Dennis J.~ 33:US ~31:62/795,654 ~32:23/01/2019

2021/04641 ~ Complete ~54:OIL CONCENTRATION PREDICTION METHOD BASED ON DATA REJECTION AND LOCAL PARTIAL LEAST SQUARES ~71:Wang Guoliang, NO.1, West Dandong Road, Wanhua District, Fushun, Liaoning Province, People's Republic of China ~72: Wang Guoliang;Wang Yang~

2021/04647 ~ Complete ~54:CEMENT MATERIAL GRINDING DEVICE ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: HU, Yaru;HUANG, Guodong;QI, Yue;SUN, Yuhua;YU, Qing~

2021/04658 ~ Complete ~54:HIGHLY-ADJUSTABLE CHROMATOGRAPHY COLUMN TEMPERATURE EQUALIZER ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan, Nantong, Jiangsu, 226000, People's Republic of China ~72: FANG, Xiaoxia;HUANG, Yan;PENG, Yuping;QIU, Yihua;SU, Jianyou~

2021/04668 ~ Complete ~54:INACTIVATION OF AFRICAN SWINE FEVER VIRUS USING A FEED ADDITIVE  
~71:Kemin Industries, Inc., 1900 Scott Avenue, DES MOINES 50317, IA, USA, United States of America ~72:  
NIEDERWERDER, Megan~ 33:US ~31:62/792,552 ~32:15/01/2019

2021/04681 ~ Complete ~54:AN ANGLING DEVICE ~71:STUBBS, David, 27 Ampleforth Court, Skelton,  
Saltburn-by-the-Sea, Cleveland, TS12 2YQ, United Kingdom ~72: STUBBS, David~ 33:GB ~31:1900517.2  
~32:15/01/2019

2021/04652 ~ Complete ~54:A PROCESS FOR PREPARING SLURRY INFILTRATED FIBRE CONCRETE  
~71:KUMAR, Gottapu Santosh, Department of Civil Engineering, Gayatri Vidya Parishad College of Engineering  
(A), India;PRASHANTI, Gottapu, Andhra University College of Pharmaceutical Sciences, India;SREELAKSHMI,  
Koduri, Department of Electronics and Communication Engineering, Andhra University College of Engineering  
(A), Andhra University, Andhra Pradesh, India ~72: KUMAR, Gottapu Santosh;PRASHANTI,  
Gottapu;SREELAKSHMI, Koduri~

2021/04659 ~ Complete ~54:RIFAMYCIN ANALOGS AND ANTIBODY-DRUG CONJUGATES THEREOF  
~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of  
America ~72: CHOI, Seungyong Sean;NITTOLI, Thomas;SAHA, Mrinmoy~ 33:US ~31:62/783,506  
~32:21/12/2018;33:US ~31:62/844,860 ~32:08/05/2019

2021/04680 ~ Complete ~54:IMAGING SYSTEM FOR ASSESSING INTEGRITY OF METAL MOTIVE PARTS IN  
INDUSTRIAL PLANTS ~71:JASON SHUMKA, Unit 2 - 2260 Hunter Road, Kelowna, British Columbia, V1X 7JB,  
Canada;THOMAS SHUMKA, Unit 2 - 2260 Hunter Road, Kelowna, British Columbia, V1X 7JB, Canada ~72:  
JASON SHUMKA;THOMAS SHUMKA~ 33:CA ~31:3,026,919 ~32:05/12/2018

2021/04632 ~ Provisional ~54:COMBINED THERMAL PROCESS OF CONTINUOUS FEED WASTE PLASTIC  
TO DIRECT ENERGY ~71:Henry Barnard Vermeulen, 627 Soetdoring ave, Aston Lake, South Africa ~72: Henry  
Barnard Vermeulen~ 33:WO ~31:.. ~32:01/05/2021

2021/04650 ~ Complete ~54:AN AIR-COOLING DEVICE WITH SMART ANTIMICROBIAL FEATURES  
~71:MALVIYA, Rishabha, Department of Pharmacy, School of Medical and Allied Sciences Galgotias University,  
India;MISHRA, Prem Shankar, Department of Pharmacy, School of Medical and Allied Sciences Galgotias  
University, India;MISHRA, Rakhi, Noida Institute of Engineering and Technology (Pharmacy Institute), India ~72:  
BAJAJ, Sakshi;DHAMIJA, Koushal;FULORIA, Neeraj Kumar;FULORIA, Shivkanya;ISLAM, Mojahidul;MALVIYA,  
Rishabha;MEENAKSHI, Dhanalekshmi Unnikrishnan;MENDIRATTA, Ajay;MISHRA, Prem Shankar;MISHRA,  
Rakhi;SUBRAMANIYAN, Vetriselvan;SUNDARAM, Sonali;TIWARI, Richa~

2021/04654 ~ Complete ~54:SMOKING PATH SIMULATION SYSTEM BASED ON ROBOTIC ARM ~71:CHINA  
TOBACCO YUNNAN INDUSTRIAL CO., LTD, No. 367, Hongjin Road, Wuhua District, People's Republic of China  
~72: CHENG Liang;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, Ying;ZHENG Han~ 33:CN ~31:202010323425.1  
~32:22/04/2020

2021/04672 ~ Complete ~54:METHODS FOR TREATING CANCER IN MODELS HARBORING ESR1  
MUTATIONS ~71:RADIUS PHARMACEUTICALS, INC., 22 Boston Wharf Road, 7th Floor , Boston,  
Massachusetts, 02210, United States of America ~72: HEIKE ARLT;HITISHA PATEL;NIANJUN TAO;TEERU  
BIHANI~ 33:US ~31:62/776,338 ~32:06/12/2018

2021/04649 ~ Complete ~54:MUNICIPAL SOLID WASTE INCINERATION BOTTOM ASH SELF-FOAMING  
LIGHT-WEIGHT MATERIAL AND PREPARATION METHOD ~71:Anhui University of Science and Technology,

168 Taifeng Street, People's Republic of China ~72: CUI, Yi;HUANG, Guodong;LI, Yongyu;WANG, Qi;ZHANG, Ruijie~

2021/04660 ~ Complete ~54:PIC1 VARIANTS WITH IMPROVED SOLUBILITY AND METHODS OF USING THE SAME ~71:REALTA HOLDINGS, LLC, 721 Fairfax Avenue, Suite 120, United States of America ~72: CUNNION, Kenji;KRISHNA, Neel K.~ 33:US ~31:62/806,432 ~32:15/02/2019;33:US ~31:62/949,181 ~32:17/12/2019

2021/04675 ~ Complete ~54:ANTICANCER COMPOUNDS ~71:PHARMA MAR, S.A., Pol#237;gono Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo, E-28770, Madrid, Spain ~72: ANDR#201;S M FRANCESCH SOLLOSO;MAR#205;A JES#218;S MART#205;N L#211;PEZ;MARIA CUEVAS MARCHANTE;PATRICIA GEMA CRUZ L#211;PEZ;RAQUEL RODR#205;GUEZ ACEBES~ 33:EP ~31:18382934.0 ~32:17/12/2018

2021/04644 ~ Complete ~54:A CASCADE-CONNECTED TRANSDUCER WITH MULTI-SEGMENTED ARRANGEMENT ~71:Northwestern Polytechnical University, No.127, West Youyi Road, Beilin District, Xi#39;an City, Shaanxi Province, People's Republic of China ~72: Teng Duo;Yang Yixin~

2021/04645 ~ Complete ~54:METHOD OF AND PRODUCT FOR MAINTAINING ROADS ~71:UNIVERSAL PARTNERSHIP TRADINGS (PTY) LTD, 22 Viljoen Street, HEIDELBERG 1441, Gauteng, SOUTH AFRICA, South Africa ~72: DIBATE, Zakkie Israel~ 33:ZA ~31:2020/04033 ~32:02/07/2020

2021/04657 ~ Complete ~54:CHROMATOGRAPHY COLUMN TEMPERATURE EQUALIZER FOR ENSURING TEMPERATURE UNIFORMITY ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan, Nantong, Jiangsu, 226000, People's Republic of China ~72: LIU, Zhan;PENG, Yuping;QIU, Yihua;XU, Fenfen;YOU, Yiwenn~

2021/04666 ~ 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: MASSE, Craig E.~ 33:US ~31:62/795,735 ~32:23/01/2019;33:US ~31:62/880,754 ~32:31/07/2019

2021/04674 ~ Complete ~54:A METHOD FOR DETERMINING THE SEVERITY OR GRADE OF HUMAN PAPILLOMAVIRUS (HPV)-INDUCED DYSPLASIA ~71:CHARIT#201;-UNIVERSIT#196;TSMEDIZIN BERLIN, Charit#233;platz 1, 10117, Berlin, Germany ~72: ANDREAS KAUFMANN~ 33:EP ~31:19156203.2 ~32:08/02/2019

- APPLIED ON 2021/07/06 -

2021/04710 ~ Complete ~54:PLUG CLOSURE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GREGORY LALIER~ 33:EP ~31:19155612.5 ~32:05/02/2019

2021/04717 ~ Complete ~54:INTRAVENOUS THERAPY SYSTEM FOR BLOOD VESSEL DETECTION ~71:Becton, Dickinson and Company, 1 Becton Drive, FRANKLIN LAKES 07417, NJ, USA, United States of America ~72: MA, Yiping;WILLYBIRO, Kathryn~ 33:US ~31:62/794,442 ~32:18/01/2019;33:US ~31:16/742,035 ~32:14/01/2020

2021/04712 ~ Complete ~54:CRF1 RECEPTOR ANTAGONIST, PHARMACEUTICAL FORMULATIONS AND SOLID FORMS THEREOF FOR THE TREATMENT OF CONGENITAL ADRENAL HYPERPLASIA ~71:Neurocrine Biosciences, Inc., 12780 El Camino Real, SAN DIEGO 92130, CA, USA, United States of America;Sanofi, 54 Rue de La Boetie, PARIS 75008, FRANCE, France ~72: CHAN, Jean L.;CHARLIER, Anne;COSTA, Christina Marie;DOWNING, Kristie M.;FARBER, Robert H.;GIRI, Nagdeep;IYOHA, Kingsley;LOEWEN, Gordon Raphael;MEHTON, Gurvinder Singh;NGWENYA-JONES, Ayanda;PARKS, Stacy;SAYERS, Brian;STIRN, Scott;TAYLOR, Graeme;VICKERY, Anthony D.;ZHANG, Xiaoping~ 33:US ~31:62/776,763 ~32:07/12/2018;33:US ~31:62/816,674 ~32:11/03/2019



2021/04704 ~ Complete ~54:PHARMACEUTICAL COMPOSITION ~71:MEDINCELL, 3 rue des Fr&#232;res Lumi&#232;re, Jacou, France ~72: CAGNON, Marie-Em&#233;rentienne;CROS, Jean Manuel;GRIZOT, Sylvestre;GU&#201;GAIN, Elise;LIU, Fang;LOPEZ NORIEGA, Adolfo;MOLINIER, Charlotte;NG, Feifei;OSTER, Murielle;ROBERGE, Christophe;SERINDOUX, Juliette;VRLINIC, Tjasa~ 33:GB ~31:1900258.3 ~32:08/01/2019

2021/04695 ~ Complete ~54:TRISPECIFIC AND/OR TRIVALENT BINDING PROTEINS FOR PREVENTION OR TREATMENT OF HIV INFECTION ~71:SANOFI, 54, rue de la Bo&#233;tie, France;THE USA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, National Institutes of Health, 6011 Executive Boulevard, United States of America ~72: ASOKAN, Mangaiarkarasi;BEIL, Christian;BENINGA, Jochen;CONNORS, Mark;DORIA-ROSE, Nicole, A.;HUANG, Jinghe;KOUP, Richard, A.;KRUIP, Jochen;KWON, Young, Do;KWONG, Peter, D.;LANGE, Christian;LEUSCHNER, Wulf Dirk;MASCOLA, John, R.;NABEL, Gary, J.;PEGU, Amarendra;QIU, Huawei;RAO, Ercole;WEI, Ronnie;XU, Ling;YANG, Zhi-Yong;ZHOU, Tongqing~ 33:US ~31:62/246,113 ~32:25/10/2015;33:EP ~31:EP16305211.1 ~32:24/02/2016;33:US ~31:62/322,029 ~32:13/04/2016;33:US ~31:62/331,169 ~32:03/05/2016

2021/04687 ~ Provisional ~54:STAPELBERG ENERGIE GMBH EV CHARGERS LAYOUT AND DISTRIBUTION ~71:Stephan Stapelberg, 13 Immerzicht Street, South Africa ~72: Stephan Stapelberg~

2021/04697 ~ Complete ~54:A CONTAINER ~71:TEQAL (PTY) LTD, 10/11 TradeHouse, 2 Mzimkhulu Drive, TradeZone, Dube TradePort, South Africa ~72: Kirkham, Sean~

2021/04705 ~ Complete ~54:FXR (NR1H4) MODULATING COMPOUNDS ~71:Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, United States of America ~72: BLOMGREN, Peter A.;CURRIE, Kevin S.;FRICK, Morin Mae;HORSTMAN, Elizabeth M.;KAPLAN, Joshua A.;KROPF, Jeffrey E.;WATKINS, William J.~ 33:US ~31:62/792,714 ~32:15/01/2019

2021/04714 ~ Complete ~54:HERBICIDE COMPOSITIONS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: GATZWEILER, Elmar;HAAF, Klaus Bernhard;LORENTZ, Lothar;MENNE, Hubert;ROSINGER, Christopher Hugh;TRABOLD, Klaus~ 33:EP ~31:18211037.9 ~32:07/12/2018

2021/04720 ~ Complete ~54:DETECTOR ARRANGEMENT, DETECTION SYSTEM AND METHOD OF PROCESSING DATA FROM A DETECTOR ARRANGEMENT FOR HIGH THROUGHPUT DATA HANDLING ~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:ZA ~31:2018/08343 ~32:11/12/2018

2021/04691 ~ Complete ~54:ELECTROCHEMILUMINESCENCE (ECL) SYSTEM FOR DETECTION OF MIRNA BASED ON SELF-GENERATED CO-REACTANT AND SIGNAL AMPLIFICATION ~71:Qingdao University of Science and Technology, No. 99, Songling Road, Laoshan District, Qingdao City, Shandong Province, 266042, People's Republic of China ~72: LIU, Jing;ZHOU, Hong~ 33:CN ~31:202011228621.7 ~32:06/11/2020

2021/04701 ~ Complete ~54:METHODS AND COMPOSITIONS FOR DELIVERY OF CARBON DIOXIDE ~71:CARBONCURE TECHNOLOGIES INC., 42 PAYZANT AVENUE, DARTMOUTH, NOVA SCOTIA B3B 1Z6, CANADA, Canada ~72: BROWN, Josh;BURNS, Brandon;CAIL, Kevin;FORGERON, Dean;MONKMAN, Sean, George;VICKERS, Brad~ 33:US ~31:62/779,020 ~32:13/12/2018

2021/04722 ~ Provisional ~54:Q-HYDRO GENERATOR ~71:QINISO SIPHUMELELE FAKAZI MATHENJWA, ESIKHAWINI H2, NHLOLAMVULA STREET 1743, South Africa ~72: QINISO SIPHUMELELE FAKAZI MATHENJWA~

2021/04699 ~ Complete ~54:WAVEFORM-LOADING COAL BODY CREEP IMPACT DISTURBANCE LOADING DEVICE AND TEST METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: JIAQI CHU;JIAZHUO LI;PENGHUI GUO;SONGYUE LI;WENHAO XIE~

2021/04707 ~ Complete ~54:ANTICANCER ACTIVITY OF BUDDLEJA SALIGNA COMPOSITIONS ~71:UNIVERSITY OF PRETORIA, Corner Lynnwood Road and Roper Street, Hatfield 0002, Pretoria, South Africa ~72: DANIELLE TWILLEY;NAMRITA LALL~

2021/04715 ~ Complete ~54:ANANDAMIDE COMPOUNDS ~71:Travecta Therapeutics Pte. Ltd., 79 Science Park Drive, #06-01/08, Cintech IV, SINGAPORE 118264, SINGAPORE, Singapore ~72: AHMED, Mahmood;MAK, Sing Yeung Frankie;SILVER, David Lawrence~ 33:US ~31:62/790,787 ~32:10/01/2019

2021/04692 ~ Complete ~54:A METHOD OF EXECUTING A SERVICE FOR A SERVICE CONSUMER, AS WELL AS A CORRESPONDING NETWORK NODE AND A COMPUTER PROGRAM PRODUCT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), , SE-164 83, Stockholm, Sweden ~72: MARIA CRUZ BARTOLOM~201; RODRIGO;MIGUEL ANGEL PUENTE PESTA~209;A~ 33:US ~31:62/545,038 ~32:14/08/2017

2021/04702 ~ Complete ~54:ANTI-IL2 RECEPTOR GAMMA ANTIGEN-BINDING PROTEINS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: MURPHY, Andrew, J.;ORENGO, Jamie, M.~ 33:US ~31:62/799,851 ~32:01/02/2019

2021/04706 ~ Complete ~54:HEADLIGHT FOR VEHICLES ~71:HELLA GmbH & Co. KGaA, Rixbecker Stra~223;e 75, 59557 Lippstadt, Germany, Germany ~72: Daniel Hochwarter;Gerhard Berger;Raimund Kerschbaummayr~ 33:DE ~31:102019129100.3 ~32:29/10/2019

2021/04716 ~ Complete ~54:A REJECT CHAMBER OF A CENTRIFUGAL CLEANER AND A CENTRIFUGAL CLEANER ~71:Andritz Oy, Tammasaarekatu 1, HELSINKI 00180, FINLAND, Finland ~72: HUFF, Jason;NYK~196;NEN, Antti;PARTTY, Miro~ 33:US ~31:62/799,144 ~32:31/01/2019;33:FI ~31:20195354 ~32:02/05/2019

2021/04688 ~ Provisional ~54:MANUAL FILLING APPARATUS TO ADD ACTIVATOR (HARDENER) TO AN AEROSOL PAINT CAN ~71:Vicki van der Walt, Vicki van der Walt, 32 Ile de Paradis, 54 Cross Street, South Africa ~72: Vicki van der Walt~

2021/04698 ~ Complete ~54:CONTROLLABLE PREPARATION FOR POLYTRIAZINYL POLYMER NANOPARTICLES ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: HUANG, XINHUA;LI, XIAONAN~

2021/04708 ~ Complete ~54:CLEANING DEVICE FOR AN APPLICATION DEVICE ~71:D~220;RR SYSTEMS AG, Carl-Benz-Stra~223;e 34, 74321 , Bietigheim-Bissingen, Germany ~72: BENJAMIN W~214;HR;DANIEL TANDLER;FRANK HERRE;GEORG SOMMER;HANS-GEORG FRITZ;JEROME LAVALL~201;E;MORITZ BUBEK;STEFFEN SOTZNY;TIMO BEYL;TOBIAS BERNDT~ 33:DE ~31:10 2018 131 380.2 ~32:07/12/2018

2021/04685 ~ Provisional ~54:PROTECTIVE LAYER ~71:DONAWAN DAVEL, 5 Ockert Avenue, Highway Gardens, South Africa;DUANE VAN STADEN, 245 Margaret Hunt street, Garsfontein, South Africa;JACOBUS MARTHINUS DE VRIES, 4 Bosbok street, Jordaanpark, South Africa;JOHANNES WILLEM BOTHA, 101 DaGama,152 Beach road, South Africa ~72: DONAWAN DAVEL;DUANE VAN STADEN;JACOBUS MARTHINUS DE VRIES;JOHANNES WILLEM BOTHA~

2021/04703 ~ Complete ~54:METHOD FOR PRODUCING A POLYESTER TEREPHTHALATE INCORPORATING A DEPOLYMERIZATION METHOD ~71:IFP ENERGIES NOUVELLES, 1 & 4 avenue du Bois-Préau, France ~72: GAUTHIER, Thierry;THINON, Olivier~ 33:FR ~31:1901024 ~32:01/02/2019

2021/04700 ~ Complete ~54:BALER ~71:DATAFORCE TRADING 261 (PTY) LTD, GEDEELTE 61 VAN DIE PLAAS, ROOIKOPJES NO 483, South Africa ~72: CORNELIS LEGEMAAT~ 33:ZA ~31:2020/04096 ~32:06/07/2020

2021/04718 ~ Complete ~54:PLANT BASED READY TO CONSUME GEL PRODUCTS WITH NO ADDED SUGAR AND THEIR USE IN DELIVERY OF AGENTS ~71:Top Gum Industries Ltd, 2 Prague St, POB 1046, Israel ~72: HYZKIHU, Amit~ 33:IL ~31:272833 ~32:20/02/2020;33:US ~31:63/034,430 ~32:04/06/2020;33:TR ~31:2020/19378 ~32:01/12/2020

2021/04709 ~ Complete ~54:METHODS OF TREATING DISEASE WITH MAGL INHIBITORS ~71:H. LUNDBECK A/S, Ottiliavej 9, 2500, Valby, Denmark ~72: CHANNING RODNEY BEALS~ 33:US ~31:62/796,941 ~32:25/01/2019

2021/04711 ~ Complete ~54:BATTERY PARTS HAVING SOLVENTLESS ACID BARRIERS AND ASSOCIATED SYSTEMS AND METHODS ~71:WATER GREMLIN COMPANY, 4400 Otter Lake Rd., White Bear Township, Minnesota, 55110, United States of America ~72: CARL DUBOIS;CHRISTOPHE CHANDLER;KURT T GIFFORD~ 33:US ~31:62/776,977 ~32:07/12/2018

2021/04686 ~ Provisional ~54:INTEGRATED CROSS-PLATFORM ACCOUNT MANAGEMENT ~71:CHANNEL TECHNOLOGIES FZE, Jebel Ali Free Zone, Office number FZJOA1813, United Arab Emirates ~72: CHATZISTAMATIOU, Antonios~

2021/04694 ~ Complete ~54:DENITRATION AND DEMERCURATION CATALYST AND PREPARATION METHOD THEREOF ~71:Shandong Vocational College of Industry, No. 69, Zhangbei Road, Zhangdian High-tech Zone, Zibo, Shandong, 256414, People's Republic of China ~72: SUN, Huayun~

2021/04713 ~ Complete ~54:HERBICIDAL COMPOSITIONS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: GATZWEILER, Elmar;HAAF, Klaus Bernhard;LORENTZ, Lothar;MENNE, Hubert;ROSINGER, Christopher Hugh;TRABOLD, Klaus~ 33:EP ~31:18211041.1 ~32:07/12/2018

2021/04693 ~ Complete ~54:IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION ~71:DOLBY LABORATORIES LICENSING CORPORATION, 1275 Market Street, San Francisco, California, 94103, United States of America ~72: FANGJUN PU;PENG YIN;SEAN THOMAS MCCARTHY;TAO CHEN;TAORAN LU;WALTER J HUSAK~ 33:US ~31:62/630,385 ~32:14/02/2018;33:US ~31:62/691,366 ~32:28/06/2018;33:US ~31:62/726,608 ~32:04/09/2018;33:US ~31:62/739,402 ~32:01/10/2018;33:US ~31:62/772,228 ~32:28/11/2018;33:US ~31:62/782,659 ~32:20/12/2018;33:US ~31:62/792,122 ~32:14/01/2019

2021/04696 ~ Complete ~54:SWITCHGEAR WITH IMPROVED PROTECTION AGAINST WATER ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: GATTRINGER, Thomas~ 33:GB ~31:2011185.2 ~32:20/07/2020

2021/04719 ~ Complete ~54:A PROBIOTIC FEED COMPOSITION AND A PROCESS FOR MAKING THE COMPOSITION ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, Rondebosch, South Africa ~72: HUDDY, Robert John~ 33:GB ~31:1821194.6 ~32:24/12/2018

- APPLIED ON 2021/07/07 -

2021/04725 ~ Provisional ~54:AUTOMATED SKIP BIN TIPPER ~71:Dirk van der Merwe, 45 Felicia Crescent, Myburgh Park, South Africa ~72: Dirk van der Merwe~

2021/04728 ~ Complete ~54:RECYCLABLE ANCHOR ROD WITH EXTERNAL FRICTIONAL NAILS ~71:Anhui University of Science and Technology, No.168 Taifeng Road, Huainan, Anhui, People's Republic of China ~72: Chen Wei;Li Qingping;Shi Minjie;Zhang Yongfei;Zhou Shengquan~

2021/04737 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING SKIN AND HAIR DISORDERS ~71:DIRECT BIOLOGICS LLC, 13492 Research Blvd., Suite 120-758, United States of America ~72: MOSELEY, Timothy Alexander;PETTINE, Kenneth Allen~ 33:US ~31:62/785,072 ~32:26/12/2018;33:US ~31:62/785,126 ~32:26/12/2018;33:US ~31:62/785,155 ~32:26/12/2018;33:US ~31:62/787,672 ~32:02/01/2019

2021/04751 ~ Complete ~54:MODIFIED RELEASE TABLET FORMULATIONS CONTAINING PHOSPHODIESTERASE INHIBITORS ~71:UNION therapeutics A/S, Tuborg Havnevej 18, HELLERUP 2900, DENMARK, Denmark ~72: BERTELSEN, Poul E.;H&#216;Y, Karin Green;PAJANDER, Jari;PEDERSEN, Gitte Pommergaard;RASMUSSEN, Marianne;RAVN, Carsten~ 33:EP ~31:19151782.0 ~32:15/01/2019

2021/04758 ~ Complete ~54:CABLE FEEDER AND DRILL RIG ~71:JOY GLOBAL UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72: GEORGIU, Michael~ 33:US ~31:62/794,915 ~32:21/01/2019

2021/04729 ~ Complete ~54:RETRACTABLE WELL WALL JOINT SUITABLE FOR DEEP STRATUM AND ITS CONSTRUCTION METHOD ~71:Anhui University of Science and Technology, No. 168, Taifeng Avenue, Huainan City, Anhui Province, People's Republic of China ~72: Cai Haibing;Cheng Hua;Fang Yu;Huang Xianwen;Rong Chuanxin;Wang Xuesong;Yao Zhishu~

2021/04733 ~ Complete ~54:NANOPARTICLE, CONTRAST AGENT FOR MAGNETIC RESONANCE IMAGING COMPRISING SAME AND ZWITTERIONIC LIGAND COMPOUND ~71:ASTELLAS PHARMA INC., 5-1, Nihonbashi-Honcho, 2-chome, Chuo-ku, Japan;NATIONAL INSTITUTES FOR QUANTUM AND RADIOLOGICAL SCIENCE AND TECHNOLOGY, 4-9-1, Anagawa, Inage-ku, Chiba-shi, Japan;RIKEN, 2-1, Hirosawa, Wako-shi, Saitama, Japan ~72: AIDA, Takuzo;AOKI, Ichio;FUJIKAWA, Akihiko;KIKUCHI, Shigetoshi;MIYAJIMA, Daigo;MIZUTANI, Tsuyoshi;TAKEUCHI, Toshiaki;TOYA, Hiroki;YAMADA, Hiroyoshi;YOSHIMURA, Seiji~ 33:JP ~31:2018-245927 ~32:27/12/2018

2021/04742 ~ Complete ~54:AIRPORT STAND ARRANGEMENT ~71:ADB SAFEGATE SWEDEN AB, Djurhagegatan 19, 213 76, Malm&#246;, Sweden ~72: ALEXANDER STRANDBERG;ANDERS BERKMO;PETER H&#197;KANSSON~ 33:EP ~31:19151380.3 ~32:11/01/2019

2021/04724 ~ Provisional ~54:EXPANDABLE CONCERTINA DYING FRAME ~71:Coralquip Ltd, Freeport Zone 5 , Mer Rouge , Port Louis , Mauritius, Mauritius ~72: Uwe Fritz~

2021/04726 ~ Provisional ~54:BAMBOO TOILET PAPER ~71:Kailash Chetty, 9 Hilton Heights, 71 Jamie Uys street, Midrand, Vorna Valley, South Africa ~72: Kailash Chetty~

2021/04727 ~ Complete ~54:RPA DETECTION PRIMER SET, KIT AND METHOD FOR POLYMYXIN DRUG-RESISTANT GENE MCR-4 ~71:Animal Products Quality and Safety Center of Shandong Province, No. 4566 Tangye west Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: Bu Yanlin;Chen Zhi;Feng Xinlei;Feng Xiuguang;Li Junling;Liu Jie;Liu Shaoning;Sun Wenbo;Xu Enmin;Yang Lin;Yang Zhiguo;Zhang Qi;Zhu Liangzhi~

2021/04738 ~ Complete ~54:IN VITRO METHOD FOR DETECTING AVIAN INTESTINAL DYSBIOSIS  
~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany  
~72: DUCATELLE, Richard;FL&#220;GEL, Monika;GOOSSENS, Evy;HARK, Sarah;PELZER, Stefan;VAN  
IMMERSEEL, Filip;VAN MEULEBROEK, Lieven;VANHAECKE, Lynn~ 33:EP ~31:18212599.7 ~32:14/12/2018

2021/04740 ~ Complete ~54:BI-DIRECTIONAL VOLUME PROVING SYSTEM ~71:DINKELMAN, Gregory, David,  
6 PRESIDENT SWART STREET, PAROW, PANORAMA, CAPE TOWN, 7500, SOUTH AFRICA, South Africa  
~72: DINKELMAN, Gregory, David~ 33:ZA ~31:2019/03026 ~32:15/05/2019;33:ZA ~31:2019/04982  
~32:30/07/2019

2021/04744 ~ Complete ~54:OVER-THE-NEEDLE CATHETER ASSEMBLIES AND RELATED  
MANUFACTURING METHOD ~71:B. BRAUN MELSUNGEN AG, Carl-Braun-Strasse 1, 34212, Melsungen,  
Germany ~72: CHEE MUN PHANG;KEVIN WOEHRE~ 33:US ~31:62/780,830 ~32:17/12/2018;33:US  
~31:62/866,765 ~32:26/06/2019;33:US ~31:62/882,141 ~32:02/08/2019;33:CN ~31:201922254020.2  
~32:16/12/2019

2021/04746 ~ Complete ~54:NOVEL TRYPANOSOMAL VACCINE ~71:GENOME RESEARCH LIMITED,  
Wellcome Trust Genome Campus, Hinxton , Saffron Walden, CB10 1SA, United Kingdom ~72: DELPHINE  
AUTHEMAN;GAVIN WRIGHT~ 33:GB ~31:1900187.4 ~32:07/01/2019

2021/04748 ~ Complete ~54:ZIRCONIA-BASED AQUEOUS NP-DISPERSION FOR USE IN COATING FILTER  
SUBSTRATES ~71:MAGNESIUM ELEKTRON LIMITED, Lumns Lane, Manchester , M27 8LN, United Kingdom  
~72: DAVID ALASTAIR SCAPENS;DEBORAH JAYNE HARRIS~ 33:GB ~31:1901560.1 ~32:05/02/2019

2021/04752 ~ Complete ~54:ATMOSPHERIC WATER GENERATOR WITH A DEFROST SYSTEM  
~71:Watergen Ltd., 2 Granit Street, PETACH 4951446, TIKVAH, ISRAEL, Israel ~72: DULBERG,  
Sharon;GOLDBERG, Moshe~ 33:US ~31:62/789,648 ~32:08/01/2019

2021/04753 ~ Complete ~54:ATMOSPHERIC WATER GENERATOR WITH WATER COOLING SYSTEM  
~71:Watergen Ltd., 2 Granit Street, PETAH 4951446, TIQWA, ISRAEL, Israel ~72: DULBERG,  
Sharon;NECHEMIA, Chen~ 33:US ~31:62/789,648 ~32:08/01/2019

2021/04730 ~ Complete ~54:CONTAINER WAGON ~71:P THORBURN CONSULTING ENGINEERS  
(PROPRIETARY) LIMITED, Unit A1 Constantia Park, Roodepoort, Gauteng, South Africa ~72: ANDREW  
THORBURN~ 33:ZA ~31:2020/01959 ~32:04/05/2020

2021/04761 ~ Provisional ~54:STAINLESS STEEL ELECTRICITY BOX METER ~71:kelebogile mashigo, 6141  
tsubella street, South Africa ~72: kelebogile mashigo~ 33:ZA ~31:5 ~32:01/01/2019

2021/04731 ~ Complete ~54:PROVIDING A DIGITAL DRIVING LICENCE ~71:DAVID LEBOGANG SELEBI, 7  
Cedar View, 1106 Tufa Street, Little Falls, South Africa ~72: SELEBI, David Lebogang~ 33:ZA ~31:2020/05789  
~32:28/07/2020

2021/04741 ~ Complete ~54:CRYSTALLINE FORMS OF NICOTINOYL RIBOSIDES AND DERIVATIVES  
THEREOF, AND METHODS OF PREPARATION THEREOF ~71:CHROMADDEX INC., 10005 Muirlands Blvd.,  
Suite G, Irvine, California, 92618, United States of America ~72: AMANDA STORJOHANN;ARON  
ERICKSON;JOSHUA HOLLOWAY;PHILIP REDPATH;TROY RHONEMUS~ 33:US ~31:62/777,567  
~32:10/12/2018

2021/04735 ~ Complete ~54:TREATING IRON DEFICIENCY IN SUBJECTS AT RISK OF CARDIOVASCULAR  
ADVERSE EVENTS AND IRON FOR THE MANAGEMENT OF ATRIAL FIBRILLATION ~71:PHARMACOSMOS



HOLDING A/S, R&#248;rvangsvej 30, Denmark ~72: CHRISTENSEN, Tobias Sidelmann;DINESS, Thomas Goldin;OKONKO, Darlington;STROM, Claes Christian;THOMSEN, Lars Lykke~ 33:GB ~31:GB 1900371.4 ~32:10/01/2019;33:US ~31:62/803,455 ~32:09/02/2019;33:EP ~31:19179820.6 ~32:12/06/2019

2021/04743 ~ Complete ~54:RECYCLABLE CONTAINER VERIFICATION SYSTEM ~71:CRYPTOCYCLE LIMITED, 71-75 Shelton Street, London, Greater London, WC2H 9JQ, United Kingdom ~72: ANTHONY MCGURK;DUNCAN MIDWOOD~ 33:GB ~31:1821276.1 ~32:28/12/2018

2021/04766 ~ Complete ~54:EFFICIENT COAL SLIME WATER CONCENTRATION TANK ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: HAN, YOU LI;WANG, CHAO;WANG, PO;WANG, XING;ZHOU, WEI;ZHU, HONGZHENG;ZHU, JINBO~

2021/04750 ~ Complete ~54:METHOD FOR ROASTING COFFEE BEANS ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CECCAROLI, Stefano;DUBIEF, Flavien~ 33:EP ~31:18212968.4 ~32:17/12/2018

2021/04756 ~ Complete ~54:METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR ~71:XRIS CORPORATION, 508-3ho, Bdong, 230, Pangyoyeok-ro Bundang-gu, Seongnam-si, Republic of Korea ~72: LEE, Bae Keun~ 33:KR ~31:10-2019-0022758 ~32:26/02/2019

2021/04759 ~ Complete ~54:SWITCH CABINET PRESSURE RELIEF DEVICE AND SWITCH CABINET ~71:QINGDAO YIHE ELECTRIC GROUP CO., LTD., No. 717, Huaihe West Road, Huangdao District, Qingdao, People's Republic of China ~72: GAO, Xiang;GUAN, Zhuqing;KONG, Xiangchong;LIANG, Jianfeng;SONG, Dewen;ZHANG, Ping~ 33:CN ~31:2019113986721 ~32:30/12/2019

2021/04734 ~ Complete ~54:PROTEIN A CHROMATOGRAPHY - ELECTROSPRAY IONIZATION MASS SPECTROMETER ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: WANG, Shunhai~ 33:US ~31:62/796,820 ~32:25/01/2019

2021/04747 ~ Complete ~54:NOVEL TRYPANOSOMAL VACCINE ~71:GENOME RESEARCH LIMITED, Wellcome Trust Genome Campus, Hinxton , Saffron Walden, CB10 1SA, United Kingdom ~72: DELPHINE AUTHEMAN;GAVIN WRIGHT~ 33:GB ~31:1900192.4 ~32:07/01/2019

2021/04749 ~ Complete ~54:METHOD FOR ROASTING COFFEE BEANS ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CECCAROLI, Stefano;DUBIEF, Flavien~ 33:EP ~31:18212951.0 ~32:17/12/2018

2021/04757 ~ Complete ~54:METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR ~71:XRIS CORPORATION, 508-3ho, Bdong, 230, Pangyoyeok-ro Bundang-gu, Seongnam-si, Republic of Korea ~72: LEE, Bae Keun~ 33:KR ~31:10-2019-0022767 ~32:26/02/2019

2021/04739 ~ Complete ~54:L-TRIIODOTHYRONINE (T3) FOR USE IN LIMITING MICROVASCULAR OBSTRUCTION ~71:TSETI, Ioulia, 13 PAVLOU MELA STREET, 145 61 KIFISSIA ATTICA, GREECE, Greece;UNI-PHARMA KLEON TSETIS PHARMACEUTICAL LABORATORIES S.A., 14TH KLM, NATIONAL ROAD 1, GR-145 64 KIFISSIA, ATTICA, GREECE, Greece ~72: MOUROUZIS, Iordanis;PANTOS, Constantinos~ 33:EP ~31:19151064.3 ~32:09/01/2019;33:EP ~31:19386057.4 ~32:16/12/2019

2021/04745 ~ Complete ~54:DEVICES, METHODS, AND SYSTEMS FOR COLLECTION OF VOLATILE ORGANIC COMPOUNDS ~71:DIAGNOSE EARLY, INC., 39655 Eureka Drive, Newark, California, 94560, United States of America ~72: CHRIS TODD;CHRIS WHEELER;JEFFREY A SCHUSTER;KARL-MAGNUS LARSSON~ 33:US ~31:62/779,256 ~32:13/12/2018;33:US ~31:62/847,181 ~32:13/05/2019

2021/04732 ~ Complete ~54:WINE FILTRATION METHOD AND APPARATUS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street,, South Africa ~72: NEL, Anton Pieter~

2021/04755 ~ Complete ~54:APPARATUS AND METHOD FOR MONITORING VALVE EXPANSION ~71:Edwards Lifesciences Corporation, One Edwards Way, IRVINE 92614, CA, USA, United States of America ~72: COHEN, Oren;MILLER, Noam;NEUMANN, Yair A.;SCHWARCZ, Elazar Levi;WITZMAN, Ofir;YOHANAN, Ziv~ 33:US ~31:62/793,116 ~32:16/01/2019

2021/04736 ~ Complete ~54:COMPOSITIONS FOR THE DELIVERY OF THERAPEUTIC AGENTS AND METHODS OF USE AND MAKING THEREOF ~71:DISRUPTION LABS INC., 8201 East Riverside Drive, Suite 650, United States of America ~72: SANDOVAL, Michael A.;SLOAT, Brian R.;WEST, Tyler B.~ 33:US ~31:62/778,132 ~32:11/12/2018;33:US ~31:62/846,474 ~32:10/05/2019;33:US ~31:62/857,567 ~32:05/06/2019;33:US ~31:62/889,824 ~32:21/08/2019;33:US ~31:62/916,754 ~32:17/10/2019

2021/04754 ~ Complete ~54:THERMALLY INHIBITED STARCH AND PROCESS FOR MAKING ~71:Corn Products Development, Inc., 5 Westbrook Corporate Center, WESTCHESTER 60154, IL, USA, United States of America ~72: LANE, Christopher;SHAH, Kamlesh;SHAH, Tarak~ 33:US ~31:62/786,066 ~32:28/12/2018;33:US ~31:62/846,941 ~32:13/05/2019;33:EP ~31:19175255.9 ~32:17/05/2019

2021/04760 ~ Complete ~54:METHOD OF COOLING A SHELL-TYPE TRANSFORMER OR INDUCTOR ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~ 33:ZA ~31:2019/00075 ~32:04/01/2019

- APPLIED ON 2021/07/08 -

2021/04763 ~ Provisional ~54:MANAGEMENT SYSTEM FOR INTERNET SERVICES ~71:HELENA CHARLOTTE FRIEDRICH, Kerkira no 4, 131 Katherine Street, South Africa ~72: HELENA CHARLOTTE FRIEDRICH~

2021/04770 ~ Complete ~54:BARRIER DEVICE ~71:TREVOR, Nicholas John, 6 Kiewietjie Street, South Africa;VAN BLOMMESTEIN, Willem Burger, Die Rand No. 2, Krommerivier Weg, South Africa ~72: TREVOR, Nicholas John;VAN BLOMMESTEIN, Willem Burger~

2021/04777 ~ Complete ~54:METHOD AND SYSTEMS FOR PREDICTION OF HLA CLASS II-SPECIFIC EPITOPES AND CHARACTERIZATION OF CD4+ T CELLS ~71:BioNTech US Inc., 40 Erie Street, Suite 110, CAMBRIDGE 02139, MA, USA, United States of America ~72: ABELIN, Jennifer Grace;BARTHELME, Dominik;KAMEN, Robert;ROONEY, Michael Steven~ 33:US ~31:62/783,914 ~32:21/12/2018;33:US ~31:62/826,827 ~32:29/03/2019;33:US ~31:62/855,379 ~32:31/05/2019;33:US ~31:62/891,101 ~32:23/08/2019

2021/04781 ~ Complete ~54:PROCESS SYSTEM AND PROCESS METHOD FOR CONVERSION OF SULFUR-CONTAINING FLUE GAS TO SULFURIC ACID ~71:KEYON PROCESS CO., LTD., Room 1058, No.19, Lane 38, Caoli Road, Fengjing Town, Jinshan District, Shanghai, 201502, People's Republic of China;RUI HUANG, Room 802-804, Building 2, 406 Guilin Road, Xuhui District, Shanghai, 200235, People's Republic of China ~72: DAN WANG;HUAYONG ZHANG;JUNLING QI;RUI HUANG;YUAN ZHANG~ 33:CN ~31:201811600891.9 ~32:26/12/2018;33:CN ~31:201822211197.X ~32:26/12/2018

2021/04791 ~ Complete ~54:THE STIMULATION OF THE YIELD OF ONE OR MORE DESIRED COMPOUNDS PRODUCED BY A PLANT ~71:ETHANOL TECHNOLOGIES LIMITED, No. 48 rue des Caramboles, Quartier du Baobab, Domaine de Labourdonnais, MAPOU 31803, MAURITIUS, Mauritius ~72: CAMBRAY, Garth Anton;MYERS, Craig Dean~ 33:ZA ~31:2018/03407 ~32:23/05/2018;33:ZA ~31:2018/08445 ~32:14/12/2018

2021/04768 ~ Complete ~54:METHOD FOR FINISHING SUPER-HYDROPHOBIC SELF-CLEANING SOLID WOOD COMPOSITE FLOOR BOARD ~71:JILIN INSTITUTE OF CHEMICAL TECHNOLOGY, No.45 Chengde Street, Longtan District, Jilin City, People's Republic of China ~72: LOU, Dawei;SHI, Junyou;XU, Wenbiao;ZHANG, Hao~ 33:CN ~31:202110689801.3 ~32:21/06/2021

2021/04780 ~ Complete ~54:MYOSTATIN SIGNAL INHIBITOR ~71:NIPPON SHINYAKU CO., LTD., 14, Kisshoin Nishinosho Monguchicho, Minami-ku, Kyoto-shi, Kyoto, 601-8550, Japan ~72: SHINICHIRO NAKAGAWA~ 33:GB ~31:1821269.6 ~32:28/12/2018

2021/04783 ~ Complete ~54:METHOD FOR TREATING OSTEOARTHRITIS PAIN BY ADMINISTERING RESINIFERATOXIN ~71:SORRENTO THERAPEUTICS, INC., 4955 Directors Place, San Diego, California, 92121, United States of America ~72: ALEXIS NAHAMA;HENRY HONGJUN JI~ 33:US ~31:62/795,530 ~32:22/01/2019;33:US ~31:62/915,802 ~32:16/10/2019

2021/04764 ~ Provisional ~54:TROLLEY HANDLE TAG HOLDER ARRANGEMENT ~71:SUPERCART SOUTH AFRICA (PTY) LTD, 32 Prospecton Road, PROSPECTON, Durban 4115, Kwazulu-Natal, SOUTH AFRICA, South Africa ~72: WOLFE, Michael Castledine~

2021/04769 ~ Complete ~54:SEGMENTED HOLLOW GROUTING ANCHOR CABLE AND USE METHOD ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CHENG, YUNHAI;GU, YUMING;LI, FENGHUI;LI, GANGWEI;PAN, ZEXIANG;WANG, GUOPU;YAN, QIFENG~

2021/04776 ~ Complete ~54:MODULATORS OF HSD17B13 EXPRESSION ~71:Ionis Pharmaceuticals, Inc., 2855 Gazelle Court, CARLSBAD 92010, CA, USA, United States of America ~72: FREIER, Susan M.;MURRAY, Susan F.~ 33:US ~31:62/783,680 ~32:21/12/2018;33:US ~31:62/825,581 ~32:28/03/2019;33:US ~31:62/827,524 ~32:01/04/2019

2021/04771 ~ Complete ~54:MODULATORS OF YAP1 EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BUI, Huynh-Hoa;FREIER, Susan, M.;KIM, Youngsoo;LUO, Xiaolin;MACLEOD, Robert~ 33:US ~31:62/799,591 ~32:31/01/2019;33:US ~31:62/845,077 ~32:08/05/2019

2021/04775 ~ Complete ~54:AFLAME RETARDANT COMPOSITION COMPRISING THE SALTS AMMONIUM SULPHA, AND DISODIUM HYDROGEN PHOSPHATE, AND A SOFTENER ~71:SVENSSON, Mats, Tegelbruksv&#228;gen 3, Sweden ~72: SVENSSON, Mats~ 33:SE ~31:1830256-2 ~32:10/09/2018

2021/04765 ~ Provisional ~54:PACKAGING SYSTEM AND METHOD ~71:GERT FREDERICK BLOM, Shylock 30, South Africa ~72: EUGENE NIELEN SCHALKWYK;GERT FREDERICK BLOM~

2021/04772 ~ Complete ~54:FUEL COMPOSITION WITH LUBRICITY ADDITIVES ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: JOIS, Yajnanarayana Halmuthur;RUSSO, Joseph, Michael~ 33:US ~31:62/802,229 ~32:07/02/2019

2021/04773 ~ Complete ~54:FUEL COMPOSITION WITH LUBRICITY ADDITIVES ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: JOIS, Yajnanarayana Halmuthur;RUSSO, Joseph, Michael~ 33:US ~31:62/802,237 ~32:07/02/2019

2021/04782 ~ Complete ~54:TRACELESS LINKERS AND PROTEIN-CONJUGATES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America ~72: AMY HAN~ 33:US ~31:16/243,020 ~32:08/01/2019;33:US



~31:PCT/US2019/012786 ~32:08/01/2019;33:US ~31:62/872,229 ~32:09/07/2019;33:US ~31:62/937,721  
~32:19/11/2019

2021/04788 ~ Complete ~54:A LIQUID ANTI-PATHOGENIC AGRICULTURAL COMPOSITION ~71:ORO AGRI INC., 2788 S. Maple Avenue, Fresno, California, 93725, United States of America ~72: DIRK BARNARD;JARED VANDERZYL;MELVIN DONOVAN PULLEN;PAULO SERGIO BERG~ 33:US ~31:62/789,649  
~32:08/01/2019;33:US ~31:62/789,656 ~32:08/01/2019;33:US ~31:62/789,657 ~32:08/01/2019

2021/04786 ~ Complete ~54:DEUTETRABENAZINE FOR THE TREATMENT OF DYSKINESIA IN CEREBRAL PALSY ~71:AUSPEX PHARMACEUTICALS, INC., 400 Interpace Parkway, Parsippany, New Jersey, 07054, United States of America ~72: FRANK SCHNEIDER;JUHA-MATTI SAVOLA;MARK FORREST GORDON~ 33:US ~31:62/779,232 ~32:13/12/2018;33:US ~31:62/801,450 ~32:05/02/2019

2021/04790 ~ Complete ~54:A METHOD OF RECYCLING TIRES ~71:MOLLOY, Mark, 4 Norfolk Drive, Mangawhai Heads, New Zealand ~72: MOLLOY, Mark~

2021/04767 ~ Complete ~54:PREPARATION METHOD OF AN ACID ALKALI AND SALT RESISTANT PVDF COMPOSITE MEMBRANE FOR OIL-WATER SEPARATION ~71:Anhui University of Science And Technology, No.168, Taifeng Street, Huainan City, Anhui Province, People's Republic of China ~72: Cui Jiuyun;Liu Yin;Pan Yusong;Xie Atian~

2021/04778 ~ Complete ~54:SUPER LARGE CORE FIBER OPTICAL CABLE FOR 5G ~71:ZHEJIANG DONGTONG IOT TECHNOLOGY CO., LTD., No. 2299, East Part Road, Nanxun Economic Development Zone, Huzhou, Zhejiang, 313009, People's Republic of China ~72: CHEN, Long;HU, Le;JIANG, Ying;LIANG, Chengcheng;MA, Jianlin;SHEN, Cong;SHEN, Xinhua;SHENG, Chunmin;SUN, Wentao;WAN, Wenbo;WANG, Mengwei;WEI, Dong;WU, Jinhua;XU, Huifang;YAN, Huiliang;YANG, Yanjie~ 33:CN ~31:202110512334.7  
~32:11/05/2021

2021/04762 ~ Provisional ~54:A DEVICE FOR HOLDING AN ADVERTISING SIGN ~71:Nathan, Gregory, 8 Taaibos Avenue, South Africa ~72: Nathan, Gregory~

2021/04779 ~ Complete ~54:COMPOSITIONS FOR CRYOPRESERVATION OF A BIOLOGICAL MATERIAL ~71:CELL MATTERS SA, Avenue de l'Industrie 1, Belgium ~72: CONNAN, Delphine;DUPUIS, Nadine;ECTORS, Fabien;GROBET, Luc~ 33:EP ~31:19155970.7 ~32:07/02/2019

2021/04787 ~ Complete ~54:PRESERVATIVE SYSTEMS AND COMPOSITIONS COMPRISING THEM ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: IAN PETER STOTT;RUPAK MITRA;THOMAS RICHARD POINTON;VINITHA KADAMKODE~ 33:EP  
~31:19157769.1 ~32:18/02/2019

2021/04774 ~ Complete ~54:VESSEL ASSEMBLY ~71:ecoSPIRITS Pte. Ltd., 90 Eu Tong Street, #03-02, Singapore ~72: GABIE, Allen Neil~ 33:SG ~31:10201811165V ~32:13/12/2018

2021/04784 ~ Complete ~54:AN AGRICULTURAL COMPOSITION ~71:ORO AGRI INC., 2788 S. Maple Avenue, Fresno, California, 93725, United States of America ~72: DIRK BARNARD;JARED VANDERZYL;MELVIN DONOVAN PULLEN;PAULO SERGIO BERG~ 33:US ~31:62/789,649 ~32:08/01/2019;33:US ~31:62/789,656  
~32:08/01/2019;33:US ~31:62/789,657 ~32:08/01/2019

2021/04785 ~ Complete ~54:A LIQUID AGRICULTURAL ADJUVANT ~71:ORO AGRI INC., 2788 S. Maple Avenue, Fresno, California, 93725, United States of America ~72: DIRK BARNARD;JARED

VANDERZYL;MELVIN DONOVAN PULLEN;PAULO SERGIO BERG~ 33:US ~31:62/789,649  
~32:08/01/2019;33:US ~31:62/789,656 ~32:08/01/2019;33:US ~31:62/789,657 ~32:08/01/2019

2021/04789 ~ Complete ~54:DUAL-MODULATION TRANSMISSION IN A WIRELESS COMMUNICATION SYSTEM ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: LOPEZ, Miguel;SJ&#214;LAND, Henrik;WILHELMSSON, Leif~

- APPLIED ON 2021/07/09 -

2021/04802 ~ Complete ~54:MOBILE PHONE WITH A HIDDEN EARPHONE HOLE SWITCH ~71:Yancheng Institute of Technology, No.1 Xi-wang-da-dao-zhong-lu, Tinghu, Yancheng, Jiangsu, People's Republic of China ~72: Sheng Hui~

2021/04808 ~ Complete ~54:REFINER PLATE SEGMENTS HAVING FEEDING GROOVES ~71:ANDRITZ INC., 5405 Windward Parkway, Suite 100W, United States of America ~72: NGUYEN, Long;SINGHAL, Arvind~ 33:US ~31:62/802,117 ~32:06/02/2019

2021/04794 ~ Provisional ~54:SOLAR POWERED GARAGE DOORS AND MOTOR GATES ~71:Dennis Cassim Mphoreng, 2179 Watsonia Street eMalahleni 1035, South Africa ~72: Dennis Cassim Mphoreng~

2021/04799 ~ Complete ~54:A TOOLBOX FOR FIELD SURVEY OF CONSTRUCTION PROJECTS ~71:Zhengzhou Railway Vocational and Technical College, No.56 Pengcheng Avenue, Zhengdong New District, Zhengzhou, Henan, 451460, People's Republic of China ~72: Feng Shenshen;Guo Yingfei;Hou Huijun;Li Donghao;Yan Yan;Yang Liu;Yuan Yuan~ 33:CN ~31:202110659913.4 ~32:11/06/2021

2021/04804 ~ Complete ~54:METHODS FOR CHARACTERIZING SOIL NITROGEN MINERALIZATION ~71:Qingdao Agriculture University, 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Liu Jintao;Liu Shutang;Nan Zhenwu;Wei Wenliang;Zhao Longgang;Zhao Yonghou~

2021/04816 ~ Complete ~54:INORGANIC FIBER FORMED BODY, MAT FOR EXHAUST GAS PURIFICATION DEVICE, AND EXHAUST GAS PURIFICATION DEVICE ~71:MITSUBISHI CHEMICAL CORPORATION, 1-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo, 1008251, Japan ~72: HIROKAZU MORITA;KAZUNORI KAWAHARA;YUSUKE KIMURA~ 33:JP ~31:2019-144390 ~32:06/08/2019;33:JP ~31:2020-092409 ~32:27/05/2020

2021/04818 ~ Complete ~54:CABLE FIXATION ASSEMBLIES FOR TELECOMMUNICATIONS ENCLOSURES ~71:COMMSCOPE TECHNOLOGIES LLC, 1100 CommScope Place SE, Hickory, North Carolina, 28602, United States of America ~72: BARRY WAYNE ALLEN;CHIEN-AN CHEN;EDDY LUC CAMS;JOHAN GEENS;MATTHEW CAMPSTEYN;OLIVIER C ROCHE;PHILIPPE COENEGRACHT;ROEL MODEST WILLY BRYON;THOMAS ROSS MARMON;WARD DECLERCQ~ 33:US ~31:62/795,316 ~32:22/01/2019;33:US ~31:62/833,955 ~32:15/04/2019;33:US ~31:62/901,035 ~32:16/09/2019;33:US ~31:62/951,253 ~32:20/12/2019

2021/04826 ~ Complete ~54:MANUFACTURING PROCESS FOR PRODUCING HERMETIC SINGLE-USE FOOD CONTAINERS SUCH AS COFFEE PODS, INCLUDING A CREASING STEP ~71:Soci&#233;t&#233; des Produits Nestl&#233; S.A., Avenue Nestl&#233; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GRES, Nicolas;HEYDEL, Christophe S&#233;bastien Paul;NORDQVIST, David~ 33:EP ~31:18213794.3 ~32:19/12/2018

2021/04792 ~ Provisional ~54:CONSUMPTION READABLE ELECTRICITY PREPAID METERS ~71:Dennis Cassim Mphoreng, 2179 Watsonia Street eMalahleni 1035, South Africa ~72: Dennis Cassim Mphoreng~

2021/04801 ~ Complete ~54:MULTIFUNCTIONAL TRUE TRIAXIAL TESTER FOR ROCK AND SOIL AND AN INSTRUCTIONS FOR OPERATION ~71:Anhui University of Science and Technology, No.168, Taifeng Avenue, Huainan City, Anhui Province, People's Republic of China ~72: Cao Dongli;Guo Longhui;Huang Xianwen;Su Yi;Wang Xuesong;Zhang Liangliang;Zhou Ruihe~

2021/04806 ~ Complete ~54:APPARATUS FOR MOVING AN ITEM ~71:CLEARVIEW PROPERTY MANAGEMENT PTY LTD, 3 Frog Court, Craigieburn, Australia ~72: CHAPMAN, Graeme;CINCOTTA, Bernard;COWAN, Michael~

2021/04809 ~ Complete ~54:QUANTITATION AND IDENTIFICATION OF DIMERS IN CO-FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: WANG, Shunhai;YAN, Yuetian~ 33:US ~31:62/796,794 ~32:25/01/2019;33:US ~31:62/852,591 ~32:24/05/2019

2021/04807 ~ Complete ~54:CONTINUOUS BLOW MOULDING MACHINE, PREFORMS, SYSTEM AND PROCESS ~71:INTEGRATED PLASTICS PTY LIMITED, 12 Birmingham Avenue, Villawood, New South Wales, 2163, Australia ~72: HO-SEON KIM;NICK MELLEN~ 33:AU ~31:2017903839 ~32:21/09/2017;33:AU ~31:2017904831 ~32:30/11/2017;33:AU ~31:2018900795 ~32:09/03/2018;33:AU ~31:2018900977 ~32:23/03/2018;33:AU ~31:2018901184 ~32:10/04/2018

2021/04812 ~ Complete ~54:ANTI-TOENAILING TRACK SHOE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: ABELLO, Benoit;JONES, Benjamin I.~ 33:US ~31:16/245,757 ~32:11/01/2019

2021/04814 ~ Complete ~54:JOINING SYSTEM FOR FURNITURE PARTS ~71:VILOX AB, Mang&#229;rdsgatan 57, 256 67, Helsingborg, Sweden ~72: BOBBY MARKOVSKI~ 33:SE ~31:1950098-2 ~32:29/01/2019;33:SE ~31:1950099-0 ~32:29/01/2019

2021/04831 ~ Complete ~54:MAPPING FIELD ANOMALIES USING DIGITAL IMAGES AND MACHINE LEARNING MODELS ~71:The Climate Corporation, 201 3rd Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: PESHLOV, Boyan;WANG, Weilin~ 33:US ~31:62/777,748 ~32:10/12/2018;33:US ~31:16/707,355 ~32:09/12/2019

2021/04797 ~ Complete ~54:GRAFT POLYURETHANE-BASED COMPOSITE DAMPING MATERIAL WITH ADJUSTABLE STIFFNESS AND ITS PREPARATION METHOD ~71:Yantai Harbin Engineering University Research Institute, No.1 Qingdao Street, Yantai Economic and Technological Development Zone, Shandong Province, People's Republic of China ~72: Guo Yanhong~

2021/04811 ~ Complete ~54:TRACK LINK HAVING CANTED RAIL SURFACE EDGES AND MACHINE TRACK WITH SAME ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: STEINER, Kevin~ 33:US ~31:16/244,864 ~32:10/01/2019

2021/04819 ~ Complete ~54:HIGH WATER HARD BARS COMPRISING COMBINATION OF TYPE AND AMOUNT OF ELECTROLYTES ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ENIO MITSUKI OURA;GISLENE SPLENDORE BORTOLAI;RODRIGO ALVES DE MATTOS;SERGIO ROBERTO LEOPOLDINO;YURIY KONSTANTINOVICH YAROVY~ 33:EP ~31:19157894.7 ~32:19/02/2019

2021/04822 ~ Complete ~54:APPARATUS AND METHOD FOR ROASTING COFFEE BEANS  
 ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND,  
 Switzerland ~72: BIGLER, Nicolas;CECCAROLI, Stefano;DUBIEF, Flavien~ 33:EP ~31:18215331.2  
 ~32:21/12/2018

2021/04823 ~ Complete ~54:MAPPING SOIL PROPERTIES WITH SATELLITE DATA USING MACHINE  
 LEARNING APPROACHES ~71:The Climate Corporation, 201 3rd Street, Suite 1100, SAN FRANCISCO 94103,  
 CA, USA, United States of America ~72: CASAS, Angeles;WARD, Steven;YANG, Xiaoyuan~ 33:US  
 ~31:62/778,268 ~32:11/12/2018

2021/04827 ~ Complete ~54:MANUFACTURING PROCESS FOR PRODUCING HERMETIC SINGLE-USE  
 FOOD CONTAINERS USING A SEALING HE/ D HAVING A SPECIFIC PROFILE WITH A RIB  
 ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND,  
 Switzerland ~72: GRES, Nicolas;HEYDEL, Christophe;bastien Paul;KOLLEP, Alexandre;NEYRET, Pierre  
 Nicolas~ 33:EP ~31:18213847.9 ~32:19/12/2018

2021/04829 ~ Complete ~54:BRANCHING OR TERMINATION OPTICAL BOX ~71:Furukawa Electric LatAm  
 S.A., Rua Hasdrubal Bellegard, 820 - Cidade Industrial, CURITIBA 81460-120, PR, BRAZIL, Brazil ~72:  
 KULCZYNSKYJ, Michael;STANCYK, Anderson Marcelo~ 33:BR ~31:10 2018 075693 1 ~32:11/12/2018

2021/04796 ~ Provisional ~54:COOLING DEVICE ~71:CHRISTOFFEL JOHANNES HENZE DE WET, 10 Casten  
 road, Groenvlei, South Africa ~72: CHRISTOFFEL JOHANNES HENZE DE WET~

2021/04793 ~ Provisional ~54:HOT SPOTTING DATA SHARING APP ~71:Dennis Cassim Mphoreng, 2179  
 Watsonia Street eMalahleni 1035, South Africa ~72: Dennis Cassim Mphoreng;Dennis Cassim Mphoreng~

2021/04800 ~ Complete ~54:DEVICE FOR REELING THE YOGA MAT ~71:Zhengzhou University of Aeronautics,  
 No.2 University Middle Road, Erqi District, Zhengzhou, Henan, 450000, People's Republic of China ~72: Dingxin  
 Li~ 33:CN ~31:CN202011033833X ~32:27/09/2020

2021/04805 ~ Complete ~54:TEST SYSTEM AND TEST METHOD FOR GAS AND COAL DUST EXPLOSION  
 OF COAL MINE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET,  
 HUAINAN CITY, People's Republic of China ~72: FU QIANG;HUANG QIANG;Jiao Zhenhua;LI CHONGQING;LIU  
 WEI;MU CHAOMIN;ZHOU HUI~

2021/04820 ~ Complete ~54:MUTATED INTERLEUKIN-34 (IL-34) POLYPEPTIDES AND USES THEREOF IN  
 THERAPY ~71:INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE),  
 101 rue de Tolbiac, 75013, Paris, France;UNIVERSITÉ DE NANTES, 1 quai de Tourville, 44000, Nantes,  
 France ~72: AGNÈS QUEMENER;CAROLE GUILLONNEAU;ERWAN MORTIER;IGNACIO ANEGON~  
 33:EP ~31:19305046.5 ~32:15/01/2019

2021/04830 ~ Complete ~54:IMAGE-BASED IRRIGATION RECOMMENDATIONS ~71:The Climate Corporation,  
 201 Third Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: DEVECIGIL,  
 Demir;KOVALSKYY, Valeriy~ 33:US ~31:62/777,736 ~32:10/12/2018;33:US ~31:16/708,239 ~32:09/12/2019

2021/04832 ~ Complete ~54:SHUT-OFF VALVE ~71:DU RAND, Andre, Joachim, Henry, 14 BUCKINGHAM  
 ROAD, PLUMSTEAD, WESTERN CAPE, 7801, SOUTH AFRICA, South Africa ~72: DU RAND, Andre, Joachim,  
 Henry~ 33:ZA ~31:2018/08338 ~32:11/12/2018

2021/04798 ~ Complete ~54:AN IN-TRANSIT LOGISTICS INFORMATION SUPERVISION SYSTEM AND  
 METHOD THEREOF ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Erqi District,

Zhengzhou, Henan, 450000, People's Republic of China ~72: Fan Yuqing;Gao Honghu;Liu Hao;Song Zhigang;Zhang Yanqi~

2021/04810 ~ Complete ~54:CLUTCH PACK WITH LOCK PLATES ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: SURVE, Rupesh Madhukar;TAWADE, Sagar Pratap~ 33:IN ~31:201911001157 ~32:10/01/2019

2021/04815 ~ Complete ~54:FIRING METHOD FOR A SET OF ELECTRONIC DETONATORS ~71:COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, B&Atilde;timent "Le Ponant D", 25 rue Leblanc, 75015, Paris, France;DAVEY BICKFORD, Le Moulin Gaspard, 89550, Hery, France ~72: LIONEL BIARD~ 33:FR ~31:1873012 ~32:17/12/2018

2021/04817 ~ Complete ~54:ANTI-CD228 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES ~71:SEAGEN INC., 21823 30th Drive Southeast, Bothell, Washington, 98021, United States of America ~72: LORI WESTENDORF;SHARSTI SANDALL;TIMOTHY LEWIS~ 33:US ~31:62/801,590 ~32:05/02/2019;33:US ~31:62/824,923 ~32:27/03/2019;33:US ~31:62/879,660 ~32:29/07/2019;33:US ~31:62/882,016 ~32:02/08/2019;33:US ~31:62/934,424 ~32:12/11/2019

2021/04825 ~ Complete ~54:A SPRAY VEHICLE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: CHAPPLE, Andrew Charles;DEYOUNG, Creighton;KOHNE, Jeffrey;LUZECKY, Christopher;SHERIDAN, Alexander;VAUGHN, Anthony~ 33:EP ~31:18211247.4 ~32:10/12/2018;33:US ~31:62/906,791 ~32:27/09/2019

2021/04824 ~ Complete ~54:COMPOSITION FOR PREVENTING OR REDUCING TRANSEPIDERMAL WATER LOSS AND IMPROVING SKIN BARRIER FUNCTION ~71:Soci&Atilde;t&Atilde; des Produits Nestl&Atilde; S.A., Avenue Nestl&Atilde; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BLANCHARD, Carine;HOLVOET, S&Atilde;bastien~ 33:EP ~31:18213823.0 ~32:19/12/2018;33:EP ~31:19174260.0 ~32:14/05/2019

2021/04795 ~ Provisional ~54:CONTACTLESS PAYMENT METHODS AND SYSTEMS ~71:LIPA PAYMENTS (PTY) LTD, 1 Fredman Drive, South Africa ~72: BUKURU, Roger~

2021/04803 ~ Complete ~54:SALINE LAND IMPROVER FOR WHEAT CULTIVATION ~71:Qingdao Agricultural University, No.700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Deng ZhiHan;Lu XiaoQing;Mu Ping;Wang ChunHua;Wang RiXu~

2021/04813 ~ Complete ~54:REDUCING SYNCHRONIZATION RELIANCE IN GARBAGE COLLECTION MARKING ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: MAONI ZHANG STEPHENS;PATRICK HENRI DUSSUD~ 33:US ~31:16/268,041 ~32:05/02/2019

2021/04821 ~ Complete ~54:APPARATUS AND METHOD FOR ROASTING COFFEE BEANS ~71:Soci&Atilde;t&Atilde; des Produits Nestl&Atilde; S.A., Avenue Nestl&Atilde; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BIGLER, Nicolas;CECCAROLI, Stefano;DUBIEF, Flavien~ 33:EP ~31:18215248.8 ~32:21/12/2018

2021/04828 ~ Complete ~54:HUMAN MILK FORTIFIER COMPOSITION ~71:Soci&Atilde;t&Atilde; des Produits Nestl&Atilde; S.A., Avenue Nestl&Atilde; 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: AFFOLTER, Michael;AUSTIN, Sean Christopher;GARCIA-RODENAS, Clara Lucia~ 33:EP ~31:18214535.9 ~32:20/12/2018

- APPLIED ON 2021/07/12 -



2021/05123 ~ Provisional ~54:WEKOUT PERSONAL TRAINER APP ~71:Cliford Monyela, 270 Von Willich, Unit 71 Piccolo Estate, South Africa ~72: Cliford Monyela~

2021/04844 ~ Complete ~54:GREEN AND WATER-RETENTION SYSTEM FOR COAL-URANIUM COORDINATED EXPLOITATION AND THE 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: Jiao, Zhenhua;Liu , Shuai;Lv, Xin;Wang, Shaolei;Yuan, Liang;Zhang, Tong;Zhao, Yixin;Zhu, Guangpei~

2021/04875 ~ Complete ~54:METHOD FOR INDICATING AND DETERMINING PRE-CODING VECTOR, AND COMMUNICATION APPARATUS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang, GUANGDONG 518129, SHENZHEN, CHINA (P.R.C.), People's Republic of China ~72: BI, Xiaoyan;JIN, Huangping;WANG, Xiaohan~ 33:CN ~31:201910028187.9 ~32:11/01/2019

2021/04881 ~ Complete ~54:INTRUDER RESISTANT SCREEN ~71:IPH INTERNATIONAL PTY LTD, 14 Dixon Street, Yatala, Australia ~72: RAMACHANDRAN, Rameshkumara~ 33:AU ~31:2019900654 ~32:28/02/2019

2021/04885 ~ Complete ~54:BICYCLIC PEPTIDE LIGANDS SPECIFIC FOR MT1-MMP ~71:BICYCLETX LIMITED, Building 900 Babraham Research Campus, Cambridge, CB22 3AT, United Kingdom ~72: CATHERINE STAGE;DANIEL TEUFEL;EDWARD WALKER~ 33:GB ~31:1820288.7 ~32:13/12/2018

2021/04888 ~ Complete ~54:FURNITURE PIECE WITH PLASTIC SPACERS FOR DRAWER SLIDES ~71:ASHLEY FURNITURE INDUSTRIES, LLC, One Ashley Way, Arcadia, Wisconsin, 54612, United States of America ~72: BRUCE SCOW;ERIC KRAMER~ 33:US ~31:62/804,039 ~32:11/02/2019

2021/04843 ~ Complete ~54:FAST LOADING DEVICE AND AN ANCHOR PROPULSION DEVICE FOR FULL-LENGTH ANCHORAGE SUPPORT PROCESSING ~71:Anhui University of Science and Technology, No. 168, Taifeng Avenue, Huainan City, Anhui Province, People's Republic of China ~72: Huang Xianwen;Li Xinwei;Liu Xiaohu;Wang Jiaqi;Wang Xuesong;Yao Zhishu;Zhou Ruihe~

2021/04846 ~ Complete ~54:FULL-TIME OPEN INTERACTIVE GEOLOGICAL TEACHING LABORATORY SYSTEM ~71:China University of Petroleum (East China), No. 66 , West Changjiang Road, Huangdao District, Qingdao, Shan Dong Province, People's Republic of China ~72: Dong Daotao;Meng Fanchao;Qiu Longwei;Yang Yongqiang~

2021/04856 ~ Complete ~54:SERIAL INFLATION CAPSULE SYSTEM FOR SIMULATING COAL SEAM MINING IN THREE-DIMENSIONAL SIMILARITY EXPERIMENT AND METHOD FOR OPERATING THE SAME ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Yunsheng;SUN, Jian;YANG, Yong~

2021/04862 ~ Complete ~54:AUTOMATIC AERIAL SHIPPING SYSTEM ~71:ARROWTEC GMBH, BWB, Tor 1, Pf&#246;rtnr Motardstra&#223;e 35, Germany ~72: BENNER, Josua~ 33:EP ~31:19151263.1 ~32:10/01/2019

2021/04871 ~ Complete ~54:COMPOSITIONS AND METHODS FOR DELIVERING CFTR POLYPEPTIDES ~71:Krystal Biotech, Inc., 2100 Wharton Street, Suite 701, PITTSBURGH 15203, PA, USA, United States of America ~72: AGARWAL, Pooja;KRISHNAN, Suma;PARRY, Trevor~ 33:US ~31:62/802,871 ~32:08/02/2019

2021/04883 ~ Complete ~54:ANTIBODY FORMULATIONS ~71:MORPHOSYS AG, Semmelweisstrasse 7, 82152, Planegg, Germany ~72: BODO BROCKS;ROBERT KELLERER~ 33:EP ~31:18212591.4 ~32:14/12/2018

2021/04890 ~ Complete ~54:A METHOD AND SYSTEM FOR CIRCULAR USE OF INDUSTRIAL OIL ~71:SKF RECONDOIL AB, Kolarev&#228;gen 2, 831 72 &#214;stersund, Sweden ~72: FRED SUNDSTR&#214;M;THOMAS PERSSON;TOMAS &#214;STBERG~ 33:SE ~31:1950147-7 ~32:08/02/2019

2021/04854 ~ Complete ~54:DISTRIBUTED RANDOM FOREST METHOD FOR RISK ASSESSMENT OF COMMUNICATION NETWORK ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: FANG, Runyue;LI, Dequan;SHEN, Xiuyu~

2021/04861 ~ Complete ~54:RODENTS HAVING GENETICALLY MODIFIED SODIUM CHANNELS AND METHODS OF USE THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ALESSANDRI-HABER, Nicole;MACDONALD, Lynn;MURPHY, Andrew, J.~ 33:US ~31:62/808,957 ~32:22/02/2019

2021/04874 ~ Complete ~54:VIRAL VECTORS ENCODING RECOMBINANT FVIII VARIANTS WITH INCREASED EXPRESSION FOR GENE THERAPY OF HEMOPHILIA A ~71:Baxalta GmbH, Zaehlerweg 4, ZUG 6300, SWITZERLAND, Switzerland;Baxalta Incorporated, 1200 Lakeside Drive, BANNOCKBURN 60015, IL, USA, United States of America ~72: ROTTENSTEINER, Hanspeter;SCHEIFLINGER, Friedrich~ 33:US ~31:62/793,058 ~32:16/01/2019

2021/04880 ~ Complete ~54:POWER SAVING SIGNAL CONFIGURATIONS FOR CONNECTED DISCONTINUOUS RECEPTION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: MALEKI, Sina;REIAL, Andres;ZOU, Gang~ 33:US ~31:62/791,180 ~32:11/01/2019

2021/04887 ~ Complete ~54:METHODS FOR TREATING OR PREVENTING HEART FAILURE AND REDUCING RISK OF HEART FAILURE ~71:DALCOR PHARMA UK LTD., LEATHERHEAD, ZUG BRANCH, Baarerstrasse 2, 6302, Zug, Switzerland;MONTREAL HEART INSTITUTE, 5000 Belanger Street, Montreal, Qu&#233;bec, H1T 1C8, Canada ~72: ERIC RH&#201;AUME;JEAN-CLAUDE TARDIF;NOLWENN MERLET~ 33:US ~31:62/815,068 ~32:07/03/2019

2021/04847 ~ Complete ~54:EPOXY RESIN POTTING ADHESIVE ~71:Yantai Harbin Engineering University Research Institute, No.1 Qingdao Street, Yantai Economic and Technological Development Zone, Shandong Province, People's Republic of China ~72: Guo Yanhong~

2021/04849 ~ Complete ~54:SOIL MODIFIER FOR DRY FARMING IN HEAVY SODIC SALINE-ALKALI LAND ~71:Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, 4888 Shengbei Street, Gaoxinbei District, Changchun, Jilin, People's Republic of China ~72: Chen Guoshuang;Liu Hongyuan~

2021/04853 ~ Complete ~54:MOBILE TRANSMISSION TERMINAL FOR DOWNHOLE SAFETY INFORMATION ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: BU, He;QIN, Xiaowei;WANG, Lei~

2021/04866 ~ Complete ~54:GRINDING DISC AND USE OF SUCH A GRINDING DISC ~71:August R&#252;ggeberg GmbH & Co. KG, Hauptstra e 13, MARIENHEIDE 51709, GERMANY, Germany ~72: GEHRMANN, Stefan;HENN, Frank;SCHMITZ, Achim;SCHUMACHER, Fabian~

2021/04868 ~ Complete ~54:BIODEGRADABLE CONTAINER AND PLATE MATERIAL AND METHOD FOR THE MANUFACTURE THEREOF ~71:Plantics B.V., Westervoortsedijk 73 BF, 6827, AV ARNHEM, THE NETHERLANDS, Netherlands ~72: ALBERTS, Albert Henderikus;BAKKER, Wridzer Jan Willem;THYS, Ferry Ludovicus~ 33:EP ~31:19152714.2 ~32:21/01/2019

2021/04876 ~ Complete ~54:FORMULATIONS ~71:Immunocore Limited, 101 Park Drive, Milton Park, ABINGDON OX14 4RY, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: EBNER, Martin;GRUDZIEN, Lukasz;JOHNSON, Andy~ 33:GB ~31:1900658.4 ~32:17/01/2019;33:GB ~31:1905105.1 ~32:10/04/2019

2021/04878 ~ Complete ~54:SCENT GENERATING DEVICE USING POWDERED FRAGRANCE ~71:GUANGZHOU JIUDI DIGITAL TECHNOLOGY CO., LTD., Pan Zhigeng Rm. 2802, No. 1 Jinsui Road, Tianhe Dist., Guangzhou, Guangdong, 510640, People's Republic of China ~72: HAN, Fengze;LIANG, Yinghong;LIANG, Yingtao;PAN, Zhigeng;YANG, Wenzhen;ZHAN, Jingzhou~ 33:CN ~31:201811619246.1 ~32:27/12/2018

2021/04884 ~ Complete ~54:BICYCLIC PEPTIDE LIGANDS SPECIFIC FOR MT1-MMP ~71:BICYCLETX LIMITED, Building 900 Babraham Research Campus, Cambridge, CB22 3AT, United Kingdom ~72: CATHERINE STACE;DANIEL TEUFEL;EDWARD WALKER;EUAN RICHARDS;GEMMA MUDD;LIUHONG CHEN;RACHID LANI~ 33:GB ~31:1820286.1 ~32:13/12/2018;33:GB ~31:1906534.1 ~32:09/05/2019

2021/04879 ~ Complete ~54:ODOR PRESENTATION DEVICE ~71:GUANGZHOU JIUDI DIGITAL TECHNOLOGY CO., LTD., Pan Zhigeng Rm. 2802, No. 1 Jinsui Road, Tianhe Dist., Guangzhou, Guangdong, 510640, People's Republic of China ~72: HAN, Fengze;LIANG, Yinghong;LIANG, Yingtao;PAN, Zhigeng;YANG, Wenzhen;ZHAN, Jingzhou~ 33:CN ~31:201811619248.0 ~32:27/12/2018

2021/04839 ~ Provisional ~54:ELECTRICITY STOP THEFT SYSTEM ~71:Bulelani Mayekiso, 16 Coronation Road Sunnyridge, South Africa ~72: Bulelani Mayekiso~

2021/04865 ~ Complete ~54:PHOTOGRAPHIC BRACKET USED ON OPHTHALMIC SLIT LAMP MICROSCOPE ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan, Nantong, Jiangsu, 226000, People's Republic of China ~72: CHEN, Zhong;LIU, Zhan;PENG, Yuping;QIU, Yihua;XU, Fenfen~

2021/04838 ~ Provisional ~54:AN EMERGENCY NOTIFICATION DEVICE ~71:ROESTOFF, Maryne, 11 NICKLAUS STREET, SILVERLAKES, PRETORIA 0081, SOUTH AFRICA, South Africa ~72: DU PLESSIS, Barend, Jacobus;LOUW, Andre~

2021/04850 ~ Complete ~54:COLD-CHAIN LOGISTICS ROUTE OPTIMIZATION METHOD BASED ON IMPROVED ANT COLONY ALGORITHM ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: GUI, Haixia;WANG, Xiangqian;YANG, Chaoyu;ZHAO, Banglei~

2021/04851 ~ Complete ~54:RADIAL SPECIALLY-SHAPED PLUNGER PUMP HAVING VANE FEATURE AND OPERATING METHOD THEREFOR ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: HU, Haixia;LI, Hu;MENG, Limin;YU, Xiangming;ZHOU, Peng~

2021/04864 ~ Complete ~54:NUCLEIC ACID SEQUENCE FOR DETECTING MAIZE PLANT DBN9501 AND DETECTION METHOD THEREFOR ~71:BEIJING DABEINONG BIOTECHNOLOGY CO., LTD., No. 49 Building, Institute for Application of Atomic Energy, Chinese Academy of Agricultural Science, No. 2 Yuanmingyuan West Road, People's Republic of China ~72: BAO, Xiaoming;DING, Derong;KANG, Yuejing;LI, Feng;LIU, Haili;WANG, Cheng;WANG, Lijun;ZHANG, Liangjun~ 33:CN ~31:201910280088.X ~32:09/04/2019

2021/04834 ~ Provisional ~54:METHOD AND DEVICE FOR PERFORMING A CALIBRATION CHECK ~71:COETZEE, Anton, 86 Leicester Road, Kensington, 2094, South Africa;DEMAC BV, Singel 115 G, 1012 VH, Amsterdam, Netherlands ~72: COETZEE, Anton;ROSSIER, Gerard~

2021/04858 ~ Complete ~54:SUPPORT ARRANGEMENT FOR AN ELECTRICAL PROTECTION ASSEMBLY ~71:THE TRUSTEES FOR THE TIME BEING OF THE LIVE LINE INTERNATIONAL TRUST, Acclaim House, 12

Mount Havelock, DOUGLAS IM1 2QG, ISLE OF MAN, Isle of Man ~72: RISI, Kevin Philip;RISI, Philip Edward Lawrence;RISI, Shaun Lawrence~ 33:ZA ~31:2020/04230 ~32:10/07/2020

2021/04870 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING CANCER ~71:Omeros Corporation, 201 Elliott Avenue West, SEATTLE 98119, WA, USA, United States of America ~72: CICIRELLI, Michael;CUTSHALL, Neil S.;DEMOPULOS, Gregory A.;GAITANARIS, George A.;GAVIN, Marc A.;GRAGEROV, Alexander;LITTLE, Thomas L.;ONRUST, Rene~ 33:US ~31:62/791,591 ~32:11/01/2019;33:US ~31:62/886,235 ~32:13/08/2019;33:US ~31:62/936,223 ~32:15/11/2019;33:US ~31:62/946,631 ~32:11/12/2019

2021/04882 ~ Complete ~54:GYROSCOPICALLY STABILISED AERIAL VEHICLES ~71:ZIRCON CHAMBERS PTY. LTD., 1 Waterline Way, Yeppoon, Australia ~72: CHAMBERS, Christopher Malcolm~ 33:AU ~31:2019900211 ~32:23/01/2019

2021/04845 ~ Complete ~54:TEST METHOD FOR MORPHOLOGICAL SULFUR IN COAL ~71:Anhui University of Science And Technology, No.168, Taifeng Street, Huainan City, Anhui Province, People's Republic of China ~72: Cai Chuanchuan;Ge Tao;Zhang Mingxu~

2021/04860 ~ Complete ~54:CATALYST COMPOSITIONS AND PRECURSORS, PROCESSES FOR MAKING THE SAME AND SYNGAS CONVERSION PROCESSES ~71:EXXONMOBIL CHEMICAL PATENTS INC., 5200 Bayway Drive, United States of America ~72: BUNQUIN, Jeffrey, C.;GRANKINA, Vera;KEUSENKOTHEN, Paul, F.;NANDI, Partha;PANEPINTO, Robert~ 33:US ~31:62/811,836 ~32:28/02/2019;33:EP ~31:19179929.5 ~32:13/06/2019

2021/04892 ~ Provisional ~54:CANDY MEETS TSAMANDEBELE ~71:MOTHILE NOMPILE BUTHELEZI, 40 Amandeiboom Road,, South Africa ~72: MOTHILE NOMPILE BUTHELEZI~

2021/04837 ~ Provisional ~54:A TRAINING SYSTEM ~71:UVEX SAFETY SOUTH AFRICA (PTY) LTD., 2 KUBU AVENUE, RIVERHORSE VALLEY BUSINESS ESTATE, EFFINGHAM, DURBAN NORTH, SOUTH AFRICA 4051, South Africa ~72: NEL, Christo;SWANEPOEL, Jarryd, Luke~

2021/04873 ~ Complete ~54:AEROSOL GENERATING APPARATUS, AEROSOL GENERATING ARTICLE AND METHOD OF DETERMINING DATA ASSOCIATED WITH AN AEROSOL GENERATING ARTICLE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: CHAN, Justin Han Yang;KORUS, Anton;MOLONEY, Patrick~ 33:GB ~31:1901066.9 ~32:25/01/2019

2021/04835 ~ Provisional ~54:ESCALATOR BELT SANITISER SYSTEM ~71:Willem Petrus Botha, 57 harvest rd, South Africa ~72: Willem Petrus Botha~

2021/04852 ~ Complete ~54:FILTER-TYPE SAMPLER FOR SUSPENDED SEDIMENT AND SAMPLING METHOD THEREFOR ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: GE, Jianhua;MI, Xufeng;XIAO, Baiqing;ZHAO, Guixia~

2021/04857 ~ Complete ~54:A PROCESS FOR DIGITAL MEDIA BROADCASTING ~71:BOWER, MICHAEL EVAN, 370 Da Costa Drive, South Africa ~72: BOWER, MICHAEL EVAN~ 33:ZA ~31:2020/03927 ~32:29/06/2020

2021/04863 ~ Complete ~54:DEVICE FOR MEASURING THE CIRCUMFERENCE OF AN OBJECT, IN PARTICULAR A BODY LIMB ~71:JUST A NEW HEALTH, Rue Auguste Goemans 12, Belgium ~72: HARFOUCHE, Joseph~ 33:BE ~31:BE2019/5075 ~32:07/02/2019

2021/04872 ~ Complete ~54:METHODS AND SYSTEMS FOR PRODUCING AAV PARTICLES ~71:Voyager Therapeutics, Inc., 75 Sidney Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANSONDARIA, Aditya;CARDINAL, Jacob J.;DISMUKE, David;FORSTER, James;HURWIT, Daniel S.;KARPES, Lori B.;LUTHER, Matthew;MARANGA, Luis;MATHUR, Krishanu;MORRISON, Christopher J.;STEININGER, Robert~ 33:US ~31:62/794,199 ~32:18/01/2019;33:US ~31:62/794,204 ~32:18/01/2019;33:US ~31:62/794,208 ~32:18/01/2019;33:US ~31:62/794,216 ~32:18/01/2019;33:US ~31:62/931,848 ~32:07/11/2019

2021/04877 ~ Complete ~54:ULTRASONIC CLEANER DEVICE FOR AN ESPRESSO COFFEE MACHINE AND ESPRESSO COFFEE MACHINE INCORPORATING SUCH A CLEANER DEVICE ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA (FI) 50038, ITALY, Italy ~72: FORBING, Aric;GUGLIELMINO, Scott~ 33:IT ~31:102019000000913 ~32:22/01/2019

2021/04886 ~ Complete ~54:ASSORTMENT OF PALLET MODULES, AND PALLET ASSEMBLY BUILT OF THE SAME ~71:PONERA GROUP SAGL, c/o Matthew Reali Via Tassera di Sotto 11, 6918, Figino, Switzerland ~72: MASOUD TALEBI AMIRI;MATTHEW REALI~ 33:EP ~31:19150439.8 ~32:05/01/2019;33:EP ~31:19150440.6 ~32:05/01/2019

2021/04891 ~ Complete ~54:LIPOSOMIAL EYE DROPS SOLUTION AND USES THEREOF FOR THE TREATMENT OF DRY EYE SYNDROME ~71:DR. ROLF LAMBERT PHARMA-CONSULTING GMBH, Kerbelring 27, Switzerland ~72: CAVALLO, Giovanni;LAMBERT, Rolf~ 33:EP ~31:18425109.8 ~32:28/12/2018

2021/04893 ~ Provisional ~54:RENT INSURANCE ~71:Ayabulela Xongo, 11 Gilford Avenue, Gallo Manor, South Africa ~72: Ayabulela Xongo~

2021/04833 ~ Provisional ~54:A COMPOSITE BUILDING SLAB ~71:OHM ASSET HOLDINGS (PTY) LTD, 431 RUPERT STREET, BROOKLYN, PRETORIA, 0181, REPUBLIC OF SOUTH AFRICA, South Africa ~72: BOTHMA, Riaan, Cornelius;KAPLAN, Morris~

2021/04840 ~ Provisional ~54:MORPHER ~71:Tshepo Mafatle, 14661 Mabidleng Street, Meloding, South Africa ~72: Tshepo Mafatle~

2021/04842 ~ Complete ~54:MODIFIED NICKEL PHYLLOSILICATE AND PREPARATION METHOD THEREOF AND EPOXY RESIN COMPOSITES ~71:Anhui University of Science and Technology, No. 168, Taifeng Avenue, Tianjia'an District, Huainan, Anhui, People's Republic of China ~72: Nie Shi-bin;Xu Yu-xuan;Yang Ji-nian~

2021/04841 ~ Complete ~54:LUBRICANT COMPOSITION FOR E-AXLE APPLICATIONS ~71:INDIAN OIL CORPORATION LIMITED, G-9, Ali Yavar Jung Marg, Bandra (East), India ~72: GARG, Sarita;HARINARAIN, Ajay Kumar;JOSHI, Ratandeep;KATTA, Lakshmi;MAHAPATRA, Rajendra;RAMAKUMAR, Sankara Sri Venkata;SAXENA, Deepak;SETH, Sarita~ 33:IN ~31:202021030289 ~32:16/07/2020

2021/04855 ~ Complete ~54:PLASTERING MORTAR USING WASTE GYPSUM AS CEMENTING MATERIAL AND PREPARATION METHOD THEREOF ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: WANG, Liang~

2021/04859 ~ Complete ~54:APPARATUS AND METHOD FOR BLOCKING LARGE FLOWING-WATER CHANNEL WITH WATER INRUSH INTEGRATING DRILLING, MESHED FRAME, BALLOON, AND GROUTING ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: SUN, Jian;XU, Jianqiang~



2021/04867 ~ Complete ~54:PCSK9 INHIBITORS AND METHODS OF USE THEREOF ~71:AstraZeneca AB, S&#214;DERT&#196;LJE SE-151 85, SWEDEN, Sweden ~72: CHAMBERS, Mark;CLARK, David;GOLDSMITH, Erica;HINCHLIFFE, Paul;JANDU, Karamjit;SERRANO-WU, Michael H.;TIERNEY, Jason~ 33:US ~31:62/794,234 ~32:18/01/2019

2021/04889 ~ Complete ~54:PURIFICATION OF OIL ~71:SKF RECONDOIL AB, Kolarev&#228;gen 2, 831 72 &#214;stersund, Sweden ~72: FRED SUNDSTR&#214;M;THOMAS PERSSON;TOMAS &#214;STBERG~ 33:SE ~31:1950146-9 ~32:08/02/2019

2021/04848 ~ Complete ~54:CULTIVATION METHOD OF CISTANCHE TUBULOSA R. WIGHT SUITABLE FOR SALINE AREAS IN THE YELLOW RIVER DELTA ~71:Biotechnology Research Center, Shandong Academy of Agricultural Sciences, No 202 Gongye North Road, Jinan City, Shan Dong Province, People's Republic of China ~72: Hou Lei;Li Changsheng;Li Guanghui;Pan Jiaowen;Wang Xingjun;Zhao Chuanzhi;Zhao Shuzhen~

2021/04836 ~ Provisional ~54:ESCALATOR BELT SANITISER SYSTEM ~71:Willem Petrus Botha, 57 harvest rd, South Africa ~72: Willem Petrus Botha~

2021/04869 ~ Complete ~54:ENCODER, DECODER AND CORRESPONDING METHODS USING DCT2 ENABLED HIGH LEVEL FLAG ~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 ~31:62/791,674 ~32:11/01/2019

- APPLIED ON 2021/07/13 -

2021/04932 ~ Complete ~54:DNT-CONTAINING COMPOSITE PRIMARY EXPLOSIVE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CUI, DIAN;LI, HONGWEI;LI, XUEJIAO;SUN, PENG;WANG, HANXIN;WANG, XUERUI;WANG, ZI;XIE, QIANG;XIE, XINGHUA;YANG, GUANG;ZHANG, XINGYAN;ZHI, LINGLI;ZHOU, HUIHENG;ZHU, MAOLIN~

2021/04925 ~ Provisional ~54:TAP2DRIVE ~71:THEODORE WILFRED LE GRANGE, MARK HEIGHTS WALLACE STREET 29, South Africa ~72: THEODORE WILFRED LE GRANGE~

2021/04895 ~ Provisional ~54:TRACKING ARRANGEMENT ~71:Bradley Benjamin SOLOMONS, 23 Eloff Street, Portlands, South Africa ~72: Bradley SOLOMONS~

2021/04912 ~ Complete ~54:RNA ENCODING A PROTEIN ~71:VERSAMEB AG, HOCHBERGERSTR. 60C, 4057 BASEL, SWITZERLAND, Switzerland ~72: METZGER, Friedrich;SCHAFFHAUSER, Herv&#233;;SELVARAJ, Justin, Antony~ 33:EP ~31:18214221.6 ~32:19/12/2018;33:EP ~31:19208066.1 ~32:08/11/2019

2021/04915 ~ Complete ~54:COBALT CATALYSTS AND PRECURSORS THEREFOR ~71:JOHNSON MATTHEY PUBLIC LIMITED COMPANY, 5th Floor 25 Farringdon Street, United Kingdom ~72: MERCER, Richard John~ 33:GB ~31:1903502.1 ~32:14/03/2019

2021/04919 ~ Complete ~54:USE OF SULFIDIC COMPOSITIONS ~71:TRIBOTECC GMBH, Industriestrasse 23, Austria ~72: APFEL, Ulf-Peter;HENSGEN, Lars;SMIALKOWSKI, Mathias~ 33:EP ~31:19158640.3 ~32:21/02/2019

2021/04921 ~ Complete ~54:METHOD FOR THE MANUFACTURING OF CHITIN DERIVATIVES THROUGH TREATMENT WITH ULTRASOUNDS ~71:TEXOL S.R.L., Via Corradino d&#39;Ascanio 3, 65020 Alanno PE, Italy ~72: FABIO DI BERARDINO~ 33:IT ~31:102019000000749 ~32:17/01/2019

2021/04922 ~ Complete ~54:METHOD FOR CONSTRUCTING NON-DE NOVO SYNTHESIZED MUCOR CIRCINELLOIDES RECOMBINANT STRAIN WITH HIGH LIPID YIELD, RECOMBINANT STRAIN CONSTRUCTED BY METHOD, AND APPLICATION OF RECOMBINANT STRAIN ~71:SHANDONG UNIVERSITY OF TECHNOLOGY, 12 Zhangzhou Road, Zhangdian District Zibo, People's Republic of China ~72: CHEN, Meiling;SONG, Yuanda;SUN, Caili;YANG, Wu;ZHANG, Huaiyuan~ 33:CN ~31:202010455770.0 ~32:26/05/2020;33:CN ~31:202011299212.6 ~32:19/11/2020

2021/04894 ~ Provisional ~54:BIKE COOLER ~71:DE ROUBAIX, Emanuel Herman Francois, Homestead 8, South Africa;STEYN, Willie Pieter, 25 Simpson Crescent, South Africa ~72: DE ROUBAIX, Emanuel Herman Francois;STEYN, Willie Pieter~

2021/04906 ~ Complete ~54:NEUTRALIZING MIMIC EPITOPE SHARED BY DUCK HEPATITIS A VIRUS TYPE 1 AND TYPE 3 AND USE THEREOF ~71:Shandong Agricultural University, No.61 Daizong Street, Taian, People's Republic of China ~72: JIANG Shijin;ZHANG Ruihua~

2021/04924 ~ Complete ~54:APPARATUS FOR LIFTING GRAPHITE ELECTRODES ~71:EXO TECHNOLOGIES LLC, P O Box 302, Cedarburg, United States of America ~72: HANSEN, James J;KOENIG, Mark~ 33:US ~31:62/796,454 ~32:24/01/2019

2021/04929 ~ Complete ~54:HIGH-ENERGY NONEL TUBE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CUI, DIAN;LI, HONGWEI;LI, XUEJIAO;SUN, PENG;WANG, HANXIN;WANG, XUERUI;WANG, ZI;XIE, QIANG;XIE, XINGHUA;YANG, GUANG;ZHANG, XINGYAN;ZHI, LINGLI;ZHOU, HUIHENG;ZHU, MAOLIN~

2021/04931 ~ Complete ~54:MINIMIZED PRIMARY EXPLOSIVE FOR DETONATOR ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CUI, DIAN;LI, RUI;LIU, SHANGHAO;SUN, PENG;WANG, HANXIN;WANG, XUERUI;WANG, ZI;XIE, QIANG;XIE, XINGHUA;YANG, GUANG;ZHANG, XINGYAN;ZHI, LINGLI;ZHOU, HUIHENG;ZHU, MAOLIN~

2021/04896 ~ Provisional ~54:COMPACT TOILET ~71:GR SUPPORT AND MINING, 23 Poortman street, South Africa ~72: E VAN EEDEN~

2021/04909 ~ Complete ~54:RESIN INJECTION DOLLY ~71:FCI HOLDINGS DELAWARE, INC., Suite 1300, 1105 N. Market Street, United States of America ~72: ARNOT, Jeremy, Ross;ROBERTS, Trent, Andrew~ 33:AU ~31:2019900457 ~32:13/02/2019

2021/04916 ~ Complete ~54:SIGNALING A SUBSET OF CORESETS SELECTED IN COT ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: CHENDAMARAI KANNAN, Arumugam;JOHN WILSON, Makesh Pravin;LUO, Tao;NAM, Wooseok;SUN, Jing;YERRAMALLI, Srinivas;ZHANG, Xiaoxia;ZHOU, Yan~ 33:US ~31:62/780,163 ~32:14/12/2018;33:US ~31:16/663,003 ~32:24/10/2019

2021/04898 ~ Provisional ~54:A FRICTION ROCK ANCHOR ~71:HOLFELD, Barry Graeme, 1027 Schooner Ave, Laser Park Ext. 9, South Africa ~72: HOLFELD, Barry Graeme~

2021/04904 ~ Complete ~54:BIOMETRIC TERMINAL, IN PARTICULAR FOR ACCESS CONTROL ~71:Idemia Identity & Security France, 2 place Samuel de Champlain, COURBEVOIE F-92400, FRANCE, France ~72: DUMONT, Denis;MAILLARD, Sylvain Emile Henri;SANDRAZ, Jean-R~ 33:FR ~31:2008089 ~32:30/07/2020

2021/04930 ~ Complete ~54:METHOD FOR EXPLOSIVELY SYNTHESIZING NANOSCALE LITHIUM IRON PHOSPHATE BATTERY MATERIAL ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CUI, DIAN;LI, RUI;LIU, SHANGHAO;SUN, PENG;WANG, HANXIN;WANG, XUERUI;WANG, ZI;XIE, QIANG;XIE, XINGHUA;YANG, GUANG;ZHANG, XINGYAN;ZHI, LINGLI;ZHOU, HUIHENG;ZHU, MAOLIN~

2021/04903 ~ Complete ~54:SUBSTITUTED PYRROLOPYRIMIDINE JAK INHIBITORS AND METHODS OF MAKING AND USING THE SAME ~71:Aclaris Therapeutics, Inc., 640 Lee Road, Suite 200, WAYNE 19087, PA, USA, United States of America ~72: ANDERSON, David Randolph;BLINN, James Robert;HOCKERMAN, Susan Landis;JACOBSEN, Eric Jon~ 33:US ~31:62/581,428 ~32:03/11/2017;33:US ~31:62/670,448 ~32:11/05/2018

2021/04913 ~ Complete ~54:ANIMAL FEED COMPOSITION ~71:PROAGNI PTY LTD, 127 Dellven Drive, Table Top, Australia ~72: BELL, Robert;CAMBELL, Lachlan;SOULSBY, Fiona~

2021/04918 ~ Complete ~54:SUBSTRATE PROVIDED WITH A STACK HAVING THERMAL PROPERTIES AND AN ABSORBENT LAYER ~71:Saint-Gobain Glass France, 12 place de l'Iris, Tour Saint-Gobain, COURBEVOIE 92400, FRANCE, France ~72: BEUTIER, Julien;MARTIN, Estelle;MISRA, Soumyadeep;RONDEAU, V&#233;ronique~ 33:FR ~31:1900878 ~32:30/01/2019

2021/04900 ~ Provisional ~54:HOMESTED – A FULLY INTEGRATED PAPERLESS PLATFORM THAT ENABLES LANDLORDS TO LIST PROPERTY, SCREEN TENANTS WITHOUT THE REQUIREMENT OF A SUBMISSION OF DOCUMENTS (ALL YOU NEED IS AN ID NUMBER) AND MANAGE THE LIFECYCLE OF THEIR RENTALS. ~71:Zukiswa Tshiamo Motsoane, 31 Antwerp Road, Modderfontein, Founders Hill Crescent, Block 2 Unit 2, South Africa ~72: Zukiswa Tshiamo Motsoane~

2021/04905 ~ Complete ~54:SPECTACULAR FISH CULTURING METHOD AND AQUARIUM FOR SPECTACULAR FISH CULTURING ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: ZHENG, Qingzhu~

2021/04911 ~ Complete ~54:RAPIDLY DEPLOYABLE MODULAR SHELTER SYSTEM ~71:WEATHERHAVEN GLOBAL RESOURCES LTD., 2120 Hartley Avenue, Coquitlam, Canada ~72: BENNETT, Jean-marc;CHRISTENSEN, Matt;JOHNSON, Brian D.;SAVENKOFF, Ryan Douglas~ 33:US ~31:16/287,539 ~32:27/02/2019

2021/04920 ~ Complete ~54:METHODS OF TREATING TYROSINE KINASE INHIBITOR-INDUCED DIARRHEA ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, Twelfth Floor, Oakland, California, 94607-5200, United States of America ~72: ALAN S VERKMAN~ 33:US ~31:62/793,291 ~32:16/01/2019

2021/04923 ~ Complete ~54:SOIL STABILIZING COMPOSITIONS ~71:ZYDEX INC., 106 Kitty Hawk Drive, Morrisville, United States of America ~72: RANKA, Ajay;RANKA, Mikhail;RANKA, Moulik~ 33:US ~31:62/787,218 ~32:31/12/2018

2021/04933 ~ Complete ~54:MULTIGRAIN PANCAKE BIOLOGICAL SELF-RAISING FLOUR AND PRODUCTION METHOD AND APPLICATION THEREOF ~71:HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY, NO. 5 XINFENG ROAD, HIGH-TECH ZONE, DAQING, People's Republic of China ~72: CAIXIA JIANG;CHUNHONG WEI;XIUJIE JIANG;YONGHONG GAO~

2021/04897 ~ Provisional ~54:AN INCENTIVE SYSTEM ~71:NEEDHAM, Justin, Charles, Stockton, 20 TALTON ROAD, FOREST TOWN, JOHANNESBURG, 2193, SOUTH AFRICA, South Africa ~72: NEEDHAM, Justin, Charles, Stockton~

2021/04914 ~ Complete ~54:ECOLOGICAL SYSTEM EXPLOITING KINETIC ENERGY IN VEHICLES ~71:ECO EOLIC TOP SYSTEM S.L., Velázquez, 51 - 5<sup>a</sup>, Spain ~72: ESTEFAN BELLAN, Abdon Miguel;FINO PUERTO, Pedro Antonio;VARGAS MACHADO, Carlos Mauricio~ 33:ES ~31:P201831284 ~32:26/12/2018

2021/04928 ~ Complete ~54:ELECTRIC-FIRING POWDER HEAD FOR DETONATOR ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: CUI, DIAN;DU, MINGRAN;SUN, PENG;WANG, HANXIN;WANG, XUERUI;WANG, ZI;XIE, QIANG;XIE, XINGHUA;YANG, GUANG;ZHANG, XINGYAN;ZHI, LINGLI;ZHOU, HUIHENG;ZHU, MAOLIN~

2021/04907 ~ Complete ~54:GREEN AND PRECISE SYSTEM FOR COAL-URANIUM COORDINATED EXPLOITATION ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Liu, Shuai;Lv, Xin;Yuan, Liang;Zhang, Tong;Zhao, Yixin~

2021/04901 ~ Provisional ~54:MANAGEMENT SYSTEM AND METHOD ~71:DUSTCOM (PTY) LTD, NO 917 LUCAS MEYER STREET, THERESAPARK, South Africa ~72: MOLEBOGENG SILAS MPHAHLELE~

2021/04902 ~ Complete ~54:GREEN SYSTEM FOR COAL AND OIL-GAS COORDINATED EXPLOITATION AND THE 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: Liu, Shuai;Lv, Xin;Yuan, Liang;Zhang, Tong;Zhao, Yixin~

2021/04908 ~ Complete ~54:PSEUDOFAB-BASED MULTISPECIFIC BINDING PROTEINS ~71:SANOVI, 54 rue La Boétie, France ~72: BEIL, Christian;ENGEL, Karl-Christian;HESSLER, Gerhard;HOELPER, Soraya;LANGE, Christian;LANGER, Thomas;LEMOINE, Cendrine;LEUSCHNER, Wulf-Dirk;OEZGUER BRUEDERLE, Sevim;RAO, Ercole;SPINDLER, Nadja;WEIL, Sandra~ 33:EP ~31:18306840.2 ~32:24/12/2018;33:EP ~31:19305813.8 ~32:21/06/2019

2021/04910 ~ Complete ~54:TWO-TIMES-TWO TANK PROCESS AND SYSTEM ~71:CAMBI TECHNOLOGY AS, Postboks 78, Norway ~72: HOLTE, Hans Rasmus;LILLEB&#216;, Andreas Helland~ 33:EP ~31:18213186.2 ~32:17/12/2018

2021/04917 ~ Complete ~54:GROUND STATION FOR ANALYSING AN OPTICAL DATA COMMUNICATION BEAM EMANATING FROM A SATELLITE ~71:Deutsches Zentrum f&#252;r Luft- und Raumfahrt e.V., Linder H&#246;he, K&#214;LN 51147, GERMANY, Germany ~72: FUCHS, Christian;GIGGENBACH, Dirk~ 33:DE ~31:10 2018 133 548.2 ~32:21/12/2018

2021/04899 ~ Provisional ~54:FITNESS APP ~71:Intra-ven (Pty) Ltd, 2059 Westbrook Estate, Noordwyk, South Africa;Intra-ven (Pty) Ltd, 2059 Westbrook Estate, Noordwyk, South Africa ~72: Intra-ven (Pty) Ltd~

- APPLIED ON 2021/07/14 -

2021/04951 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AS ADENOSINE ANTAGONISTS ~71:Nuvation Bio Inc., 1500 Broadway, Ste. 1401, NEW YORK 10036, NY, USA, United States of America ~72: JADHAVAR, Pradeep S.;KANKANALA, Jayakanth;KHAN, Farha;MULIK, Baban Mohan;PHAM, Son Minh;RAMACHANDRAN, Sreekanth A.~ 33:US ~31:62/794,537 ~32:18/01/2019;33:US ~31:62/796,046 ~32:23/01/2019

2021/04939 ~ Complete ~54:TOPICAL SANITIZING COMPOSITIONS ~71:RECKITT BENCKISER HEALTH LIMITED, 103-105 Bath Road, Slough, United Kingdom ~72: CRUDDEN, Edward;MUSYOKI, Jennifer;WHITEHEAD, Kelly Marie~ 33:US ~31:62/803,654 ~32:11/02/2019

2021/04926 ~ Provisional ~54:CRYOGENIC TANK/MINI-TANK LIFTER ~71:Ntokozo Makhubu, 12314/33 Marshalltown Street, Evaton West, South Africa ~72: Ntokozo Makhubu~ 33:ZA ~31:00 ~32:13/07/2021

2021/04947 ~ Complete ~54:TREATMENT OF HEPATOTOXICITY ~71:NATIONAL UNIVERSITY OF SINGAPORE, 21 Lower Kent Ridge Road, Singapore;SINGAPORE HEALTH SERVICES PTE. LTD., 31 Third Hospital Avenue, #03-03 Bowyer Block C, Singapore ~72: COOK, Stuart Alexander;SCHAEFER, Sebastian;WIDJAJA, Anissa Anindya~ 33:GB ~31:1900811.9 ~32:21/01/2019;33:GB ~31:1907839.3 ~32:03/06/2019;33:GB ~31:1915003.6 ~32:17/10/2019

2021/04934 ~ Complete ~54:HIGH-EFFICIENCY FREEZING WALL COLD ENERGY RECOVERY AND UTILIZATION DEVICE AND OPERATION METHOD ~71:Anhui University of Science and Technology, No. 168, Taifeng Avenue, Huainan City, Anhui Province, People's Republic of China ~72: Huang Xianwen;Li Xinwei;Wang Xuesong;Xue Weipei;Yao Zhishu;Zhao Lixia;Zhou Ruihe~

2021/04945 ~ Complete ~54:CODON-OPTIMISED COMPLEMENT FACTOR I ~71:GYROSCOPE THERAPEUTICS LIMITED, STEVENAGE BIOSCIENCE CATALYST, GUNNELS WOOD ROAD, STEVENAGE HERTFORDSHIRE SG1 2FX, GREAT BRITAIN, United Kingdom ~72: JOEL, Josephine, Heather, Lucienne~ 33:GB ~31:1821089.8 ~32:21/12/2018

2021/04952 ~ Complete ~54:FORMULATION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: SCHULTZ, Thomas~ 33:GB ~31:1902551.9 ~32:26/02/2019

2021/04954 ~ Complete ~54:A CONTINUOUS MANUFACTURING PROCESS FOR BIOLOGICS MANUFACTURING BY INTEGRATION OF DRUG SUBSTANCE AND DRUG PRODUCT PROCESSES ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: AMBHAIKAR, Malhar R.;CHAI, Vincent;CLARK, Philip;GUHAN, Subramanian;PADALA, Sai Chakradhar;RATHORE, Nitin;SAREMI, Zane;SHARMA, Ashish;SHOEMAKER, Kenneth;THANGARAJ, Balakumar;THORUP, John E.;TILLOTSON, Benjamin J.;WONG, Hann-Chung~ 33:US ~31:62/797,445 ~32:28/01/2019

2021/04960 ~ Complete ~54:METHODS OF TREATING PAIN WITH A THIAZOLINE ANTI-HYPERALGESIC ~71:CERSCI THERAPEUTICS, INC., 1601 Elm Street, Floor 33, Dallas, Texas, 75201, United States of America ~72: SCOTT DAX~ 33:US ~31:62/800,232 ~32:01/02/2019

2021/04958 ~ Complete ~54:METHOD FOR PRODUCING A LIGNOSULFONATE POLYMER ~71:UNIVERSITÄT FÜR BODENKULTUR WIEN, Gregor-Mendel-Strasse 33, Austria ~72: BISCHOF, Sabrina;GUEBITZ, Georg;NYANHONGO, Gibson Stephen;ORTNER, Andreas~ 33:AT ~31:A50053/2019 ~32:24/01/2019

2021/04959 ~ Complete ~54:METHOD FOR PRODUCING COILS, PRODUCTION APPARATUS FOR PRODUCING COILS, WIRE NETTING APPARATUS AND USES OF THE WIRE NETTING APPARATUS ~71:GEOBRUGG AG, Aachstrasse 11, Switzerland ~72: Manuel EICHER~ 33:DE ~31:10 2019 102 593.1 ~32:01/02/2019

2021/04940 ~ Complete ~54:NOVEL SUBSTITUTED SULFONYLUREA DERIVATIVES ~71:CADILA HEALTHCARE LIMITED, Zydus Corporate Park, Scheme No. 63, Survey No. 536, Khoraj (Gandhinagar), Nr. Vaishnodevi Circle, India ~72: AGARWAL, Sameer;SHARMA, Rajiv~ 33:IN ~31:201921001555 ~32:14/01/2019



2021/04949 ~ Complete ~54:ELECTRIC CIRCUIT FOR POWERING CENTRIFUGAL PUMPS ~71:EOS ITR, S.L., C/ Ciudad de Balaguer, 42 3&#186; 1&#170;, BARCELONA 08022 , SPAIN, Spain ~72: OLMOS DE BONILLA, Carlos~ 33:ES ~31:P201930691 ~32:25/07/2019

2021/04946 ~ Complete ~54:BATTERY RECYCLING PROCESS ~71:A.C.N. 630 589 507 PTY LTD, LEVEL 3, 1292 HAY STREET, WEST PERTH, WESTERN AUSTRALIA 6005, AUSTRALIA, Australia ~72: BEER, Gavin;URBANI, Mark, Daniel~ 33:AU ~31:2018904918 ~32:21/12/2018;33:EP ~31:19161012.0 ~32:06/03/2019

2021/04944 ~ Complete ~54:COMPLEMENT FACTOR I AND COMPLEMENT FACTOR I COFACTOR, VECTORS ENCODING THEREFOR AND THERAPEUTIC USE ~71:GYROSCOPE THERAPEUTICS LIMITED, STEVENAGE BIOSCIENCE CATALYST, GUNNELS WOOD ROAD, STEVENAGE HERTFORDSHIRE SG1 2FX, GREAT BRITAIN, United Kingdom ~72: BUCHBERGER, Anna;ELLIS, Scott;JOEL, Josephine, Heather, Lucienne~ 33:GB ~31:1821082.3 ~32:21/12/2018

2021/04956 ~ Complete ~54:AN APPARATUS FOR MAKING TEXTURE CONTROLLED EDIBLE ICE PRODUCTS INSTANTLY ~71:MRGRANITA LTD., 11 Haavoda St., Israel ~72: Amichai Haim YIFRACH~ 33:IL ~31:264930 ~32:20/02/2019

2021/04962 ~ Provisional ~54:ACTIVE SHIELD FOR ASSET PROTECTION ~71:Paul Stefanus, Paul Stefanus, South Africa ~72: Paul Stefanus~ 33:ZA ~31:G08B ~32:13/07/2021

2021/04927 ~ Provisional ~54:A SMARTWATCH THAT CLOSES WITH MAGNETS AND OPENS WITH A FINGERPRINT ~71:Iustitia, 1773 Mdlalose street, Protea North, South Africa ~72: Iustitia~

2021/04937 ~ Complete ~54:QUICK RELEASE ARRANGEMENT FOR TEMPORARY FACE PROPS ~71:ANGELOS, Komninos George, 23 Joseph Avenue, NORTHCLIFF, Johannesburg 2195, Gauteng, SOUTH AFRICA, South Africa;LAWRENCE, Allen Preston, Portion 94 of Farm JQ 417, Roodekopjes, BRITZ, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston~ 33:ZA ~31:2019/06747 ~32:14/04/2020

2021/04961 ~ Complete ~54:RELEASE AGENT SPRAYING DEVICE USED IN SG ABRASIVE GRAIN PRODUCTION PROCESS ~71:QINGDAO SISA ABRASIVES CO., LTD., Qianwangang Road, Huangdao District, Qingdao, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CUI, Xin;HOU, Yali;HUANG, Baoteng;LI, Changhe;LI, Runze;LIU, Mingzheng;LU, Bingheng;WANG, Zhen;YANG, Min;ZHAI, Han;ZHANG, Naiqing;ZHANG, Yanbin~ 33:CN ~31:2019107912025 ~32:26/08/2019

2021/04941 ~ Complete ~54:BIFUNCTIONAL ANTI-PD-1/SIRPA MOLECULE ~71:OSE IMMUNOTHERAPEUTICS, 22 BOULEVARD BENONI GOULLIN, 44200 NANTES, FRANCE, France ~72: BITEAU, Kevin;MARY, Caroline;MORELLO, Aurore;POIRIER, Nicolas~ 33:EP ~31:18306810.5 ~32:21/12/2018

2021/04953 ~ Complete ~54:USE OF RENEWABLE ENERGY IN OLEFIN SYNTHESIS ~71:SABIC Global Technologies, B.V., Plasticlaan 1, BERGEN OP ZOOM 4612 PX, THE NETHERLANDS, Netherlands ~72: ABBOTT, Tim;HUCKMAN, Michael Edward;LAWSON, Kenneth Francis;OPRINS, Arno;SCHROER, Joseph William;STEVENSON, Scott;WARD, Andrew Mark;ZHAO, Zhun~ 33:US ~31:62/792,612 ~32:15/01/2019;33:US ~31:62/792,615 ~32:15/01/2019;33:US ~31:62/792,617 ~32:15/01/2019;33:US ~31:62/792,619 ~32:15/01/2019;33:US ~31:62/792,622 ~32:15/01/2019;33:US ~31:62/792,627 ~32:15/01/2019;33:US ~31:62/792,631 ~32:15/01/2019;33:US ~31:62/792,632 ~32:15/01/2019;33:US ~31:62/792,633 ~32:15/01/2019;33:US ~31:62/792,634 ~32:15/01/2019;33:US ~31:62/792,635 ~32:15/01/2019;33:US ~31:62/792,636 ~32:15/01/2019;33:US ~31:62/792,637 ~32:15/01/2019

2021/04938 ~ Complete ~54:PREPARATION METHOD OF TIRE TREAD WITH NO CUSHION CORD PLY  
~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1, Xiangwang Road, Jiuli District, Jiangsu  
Province, People's Republic of China ~72: SONG, Shuishai;WANG, Yanqiu;WENG, Guowen;XU, Yunhui~

2021/04942 ~ Complete ~54:METHODOLOGY AND DEVICE OPERATING IN UNLICENSED SPECTRUM  
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: LIU,  
Jinhua;WANG, Min~ 33:CN ~31:PCT/CN2018/122849 ~32:21/12/2018

2021/04948 ~ Complete ~54:METHODS FOR OBTAINING INDUCED SMOOTH MUSCLE CELLS  
~71:INNOVACELL AG, Mitterweg 24, Austria ~72: Marco THURNER;Rainer MARKSTEINER~ 33:EP  
~31:19164574.6 ~32:22/03/2019

2021/04943 ~ Complete ~54:PERCUTANEOUS ABSORPTION PREPARATION COMPRISING STABILIZED  
DONEPEZIL ~71:DONG-A ST CO., LTD., 64, CHEONHO-DAERO (YONGDU-DONG) DONGDAEMUN-GU,  
SEOUL 02587, KOREA, Republic of Korea;KM TRANSDERM LTD., NAKANOSHIMA KITA-KU, OSAKA 2-3-18,  
JAPAN, Japan ~72: CHA, Kwang-Ho;GOTO, Masaoki;JANG, Sun-Woo;KIM, Hae-Sun;KIM, Hyun-Jung;SHIN,  
Chang-Yell~ 33:KR ~31:10-2018-0167289 ~32:21/12/2018

2021/04950 ~ Complete ~54:PHARMACEUTICAL PROCESS AND INTERMEDIATES ~71:AstraZeneca AB,  
S&#214;DERT&#196;LJE 151 85, SWEDEN, Sweden ~72: COOPER, Katie Grace;DAVE, David  
Pranay;GRAHAM, Mark Andrew;INGLESBY, Phillip Anthony;JACKSON, Lucinda Victoria;NOONAN, Gary  
Michael~ 33:US ~31:62/780,993 ~32:18/12/2018;33:US ~31:62/859,259 ~32:10/06/2019

2021/04955 ~ Complete ~54:INJECTION CANNULA, ECMO SYSTEM ~71:ASSISTANCE PUBLIQUE  
HOPITAUX DE PARIS, 3, Avenue Victoria, France ~72: MORDANT, Pierre~ 33:FR ~31:1900752  
~32:28/01/2019

2021/04935 ~ Complete ~54:MEDICAL IMAGE WATERMARKING METHOD BASED ON SEQUENCE EVEN  
SPREAD SPECTRUM ~71:Jin Huilong, No.20 Road East. 2nd Ring South, Yuhua District, Shijiazhuang, Hebei,  
People's Republic of China ~72: He Mingzhong;Jin Huilong;Zhao Jia~

2021/04936 ~ Complete ~54:HIGHLY ACTIVE STRAW BIOCHAR AND ITS PREPARATION METHOD  
~71:Institute of Plant Nutrition, Resources and Environmental Science, Henan Academy of Agricultural Sciences,  
No. 116, Huayuan Road, Zhengzhou, Henan, 450002, People's Republic of China ~72: Guo Zhanling;Kou  
Changlin;Li Taikui;Luo Xiaosheng;Lv Jinling;Qin Shengtao;Zhang Xiangning~

2021/04957 ~ Complete ~54:SELF-LOCKING DEVICE FOR ANTI-FALLING RAIL ~71:BEIJING GUOWANG  
FUDA SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD., 13 Floor, Zone 6, No. 188, South Fourth Ring  
West Road, Fengtai District, Beijing, 100071, People's Republic of China ~72: LI, Xuebin;MEI, Jia;WEI,  
Xiaodong;WU, Jianning;YANG, Jiarui;ZHOU, Limin~ 33:CN ~31:201910504343.4 ~32:12/06/2019

- APPLIED ON 2021/07/15 -

2021/04969 ~ Complete ~54:COMPOSITIONS COMPRISING 15-HEPE AND METHODS OF USING THE SAME  
~71:AFIMMUNE LIMITED, Trintech Building, South County Business Park, Leopardstown, Dublin, 18, Ireland  
~72: DAVID COUGHLAN;JOHN CLIMAX~ 33:US ~31:62/269,280 ~32:18/12/2015

2021/04973 ~ Complete ~54:BRAKE SYSTEM FOR A VEHICLE ~71:CATERPILLAR SARL, Route de Frontenex  
76 1208, Switzerland ~72: ADEEB, Adam;JOHNSON, Steven, E.~ 33:GB ~31:1900726.9 ~32:18/01/2019

2021/04995 ~ Complete ~54:METHODS OF PURIFYING AN ALLERGEN EXTRACT ~71:LETI PHARMA S.L.,  
Calle del Sol 5, 28760 Tres Cantos, Spain ~72: JER&#211;NIMO CARN&#201;S S&#193;NCHEZ;MAR&#205;A

MORALES;MAR#205;A TERESA GALLEG0;MARTA ROM#193;N-ESCUTIA~ 33:EP ~31:19382030.5  
~32:17/01/2019

2021/04971 ~ Complete ~54:EXPERIMENTAL APPARATUS FOR INFLUENCE OF SUPERFINE WATER MISTS  
ON EXPLOSIVE CHARACTERISTIC OF COMBUSTIBLE GAS AND METHOD OF USE THEREFOR ~71:Anhui  
University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: LI, Zhiqi;LIANG,  
Xue;MU, Wenxiang;XING, Qingran;XU, Yihao;YAN, Zhuo;YUAN, Shujie;ZUO, Yuanxia~

2021/04996 ~ Complete ~54:LUMINESCENT DIAMOND ~71:SCHLUMBERGER TECHNOLOGY B.V., Parkstraat  
83, 2514 JG, The Hague, Netherlands ~72: J. DANIEL BELNAP~ 33:US ~31:62/793,032 ~32:16/01/2019

2021/04965 ~ Complete ~54:SMALL UNMANNED BOAT DRIVE SHAFT SYSTEM GREASE SEAL ANTI-  
LEAKAGE DEVICE ~71:Shanghai Ocean University, No. 999, Huchenghuan Rd, Nanhui New City, Shanghai,  
People's Republic of China ~72: Chen Leilei;Chen Pukun;Hu Qingsong;Jiang Bo;Li Jun~

2021/04979 ~ Complete ~54:PLANT-DERIVED RUBISCO PROTEIN PURIFICATION ~71:R. J. REYNOLDS  
TOBACCO COMPANY, 401 North Main Street, Winston-Salem, United States of America ~72: BRATCHER,  
Barry;FORD, Kyle;MORTON, Joshua D.;MUA, John-Paul;PARTAIN, Nicholas~ 33:US ~31:62/794,020  
~32:18/01/2019

2021/04983 ~ Complete ~54:TOBACCO CONSTITUENT RELEASING COMPONENTS, METHODS OF MAKING  
THE COMPONENTS AND ARTICLES COMPRISING THE COMPONENTS ~71:British American Tobacco  
(Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom  
~72: FRANKE, Dietmar;LINK, Matthias;PL#220;CKHAHN, Frank;YILMAZ, Ugurhan~ 33:GB ~31:1900627.9  
~32:16/01/2019

2021/04964 ~ Provisional ~54:GOOD SKIN PRODUCTS (MANGO BUTTER AND CUCUMBER PETROLEUM  
JELLY, WRINKLE TREATMENT; UNDERARM AND DARK MARKS TREATMENT, LEMON AND SANDLEWOOD,  
HEALTHY SKIN TREATMENT, OUD AND JASMINE, AMBER,JOJOBA, OLIVE OIL. ~71:Belinda Mbhele, 24  
Combrink Road, Ridgepark, South Africa ~72: Belinda Mbhele~

2021/04993 ~ Complete ~54:COMPLEX OF GADOLINIUM AND A CHELATING LIGAND DERIVED OF A  
DIASTEREOISOMERICALLY ENRICHED PCTA AND SYNTHESIS METHOD ~71:GUERBET, 15, rue des  
Vanesses, 93420, Villepinte, France ~72: ALAIN CH#201;NED#201;;BRUNO FRAN#199;OIS;MARTINE  
CERF;SOIZIC LE GRENEUR;ST#201;PHANE DECRO~ 33:FR ~31:1900433 ~32:17/01/2019

2021/05001 ~ Provisional ~54:MECHANICAL TYRECRETE ~71:Stapleton Bosealetse, 5 Botes Avenue,  
Olifantsfontein West,, South Africa ~72: Stapleton Bosealetse~

2021/04975 ~ Complete ~54:SYSTEM AND METHOD FOR PROCESSING SIGNALS USING FEED FORWARD  
CARRIER AND TIMING RECOVERY ~71:KRATOS INTEGRAL HOLDINGS, LLC, 10680 TREENA STREET, 6TH  
FLOOR, SAN DIEGO, CALIFORNIA 92131, USA, United States of America ~72: JARRIEL, Jeffrey, David;KING,  
Brandon, Gregory~ 33:US ~31:16/230,993 ~32:21/12/2018

2021/04988 ~ Complete ~54:VIRUS-LIKE PARTICLES OF CMV MODIFIED BY FUSION ~71:SAIBA AG,  
Bahnhofstrasse 13, Switzerland ~72: ZELTINS, Andris~ 33:EP ~31:18214639.9 ~32:20/12/2018

2021/04963 ~ Provisional ~54:SPARE WHEEL DISPLACEMENT DEVICE ~71:VORSTER, Barend Johannes  
Martunis, Troupand Street 54, South Africa ~72: VORSTER, Barend Johannes Martunis~

2021/04992 ~ Complete ~54:TRIM STRUCTURE FOR A DOOR ~71:IMAFORM, 18 Rue de la Colline, 64200, Biarritz, France ~72: BERNARD BROUILLET;CHARLES RUTHER;PHILIPPE BAIZEAU~ 33:FR ~31:19 00267 ~32:11/01/2019

2021/04989 ~ Complete ~54:MONOCLONAL ANTIBODIES SPECIFIC FOR THE PB2 ANTIGEN OF THE HUMAN INFLUENZA VIRUS (FLU), NUCLEOTIDE SEQUENCES, METHOD AND DIAGNOSTIC KIT FOR FLU INFECTION ~71:PONTIFICIA UNIVERSIDAD CAT#211;LICA DE CHILE, Avenida Libertador Bernardo O#180;Higgins 340, Santiago, 8331150, Chile ~72: ALEXIS MIKES KALERGIS PARRA;SUSAN MARCELA BUENO RAM#205;REZ~ 33:CL ~31:3871-2018 ~32:28/12/2018

2021/04991 ~ Complete ~54:SENSOR ARRANGEMENT AND OPTIMIZED TRACKING FOR CSP SYSTEMS ~71:CAMBRAS GMBH, N#246;rdliche M#252;nchner Stra#223;e 47, 82031, Gr#252;nwald, Germany ~72: LUKAS KIRSCHT~ 33:EP ~31:19151496.7 ~32:11/01/2019;33:EP ~31:19179193.8 ~32:07/06/2019

2021/04978 ~ Complete ~54:CLAMPING AND LIFTING DEVICE ~71:SIEMAG TECBERG GMBH, TECBERG park 28, Germany ~72: Marc Roman B#220;DENBENDER;Michael G#214;TZ~ 33:DE ~31:10 2019 102 285.1 ~32:30/01/2019

2021/04984 ~ Complete ~54:METHOD FOR VERIFYING THE IDENTITY OF A USER BY IDENTIFYING AN OBJECT WITHIN AN IMAGE THAT HAS A BIOMETRIC CHARACTERISTIC OF THE USER AND MOBILE DEVICE FOR EXECUTING THE METHOD ~71:Identy Inc., 8 The Green, Suite 7471, DOVER 19901, DE, USA, United States of America ~72: HARDIK, Gupta;SATHEESH, Murugan;WAZEER, Zulfikar~ 33:EP ~31:19153461.9 ~32:24/01/2019

2021/04997 ~ Complete ~54:PRINTER FOR PRINTING MARKER CARDS WITH MARKS FOR MARKING ELECTRICAL DEVICES ~71:WEIDM#220;LLER INTERFACE GMBH & CO. KG, Klingenbergstr. 26, Germany ~72: Markus DAHLMANN;Ren#233; MANKE;Rico SCHINDLER;Thomas K#214;STER;Thorsten BORNEFELD~ 33:DE ~31:10 2019 104 934.2 ~32:27/02/2019

2021/05015 ~ Complete ~54:ELECTRON BEAM (EB) CURING OF INKS AND IN-SITU CROSSLINKING OF SUBSTRATES TO PROVIDE SUSTAINABLE AND RECYCLABLE FLEXIBLE PACKAGING SOLUTIONS ~71:ENERGY SCIENCES, INC., 42 Industrial Way, United States of America ~72: RANGWALLA, Imtiaz;SULLIVAN, Brian~ 33:US ~31:62/873,868 ~32:13/07/2019

2021/04968 ~ Complete ~54:METHOD AND APPARATUS FOR BLURRING EFFECT MITIGATION IN GROUND-BASED RADAR IMAGES ~71:IDS GEORADAR S.r.l., Via Carducci 32, MILANO 20123, ITALY, Italy ~72: MICHELINI, Alberto~ 33:IT ~31:102020000017329 ~32:16/07/2020

2021/04980 ~ Complete ~54:BATTERY PACK ASSEMBLY ~71:ACELERON LIMITED, 22 Gas Street, United Kingdom ~72: CHANDAN, Amrit;CUMMINS, Carlton~ 33:GB ~31:1821086.4 ~32:21/12/2018

2021/04990 ~ Complete ~54:MONOCLONAL ANTIBODY OR ANTIGEN BINDING FRAGMENT THEREOF THAT BINDS TO THE L PROTEIN OF THE HUMAN PARAINFLUENZA VIRUS (PIV); METHOD AND KIT FOR DETECTING PIV ~71:PONTIFICIA UNIVERSIDAD CAT#211;LICA DE CHILE, Avenida Libertador Bernardo O#180;Higgins 340, Santiago, 8331150, Chile ~72: ALEXIS MIKES KALERGIS PARRA;SUSAN MARCELA BUENO RAM#205;REZ~ 33:CL ~31:3869-2018 ~32:28/12/2018

2021/04994 ~ Complete ~54:COMPLEX OF GADOLINIUM AND A CHELATING LIGAND DERIVED FROM A DIASTEREOISOMERICALLY ENRICHED PCTA AND PREPARATION AND PURIFICATION PROCESS ~71:GUERBET, 15, rue des Vanesses, 93420, Villepinte, France ~72: ALAIN CH#201;NED#201;;BRUNO

FRAN&#199;OIS;CAROLINE ROBIC;EMMANUELLE MARAIS;MARTINE CERF;MYRIAM PETTA;SOIZIC LE GRENEUR;ST&#201;PHANIE LOUGUET~ 33:FR ~31:1900432 ~32:17/01/2019

2021/04999 ~ Complete ~54:GENERAL-PURPOSE PROCESSOR INSTRUCTION TO PERFORM COMPRESSION/DECOMPRESSION OPERATIONS ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: FARRELL, Mark;GIAMEI, Bruce Conrad;KLEIN, Matthias;MISHRA, Ashutosh;SLEGEL, Timothy;SOFIA, Anthony Thomas;WEISHAUPT, Simon~ 33:US ~31:16/263,735 ~32:31/01/2019

2021/04974 ~ Complete ~54:SERPINC1 IRNA COMPOSITIONS AND METHODS OF USE THEREOF ~71:GENZYME CORPORATION, 50 Binney Street, Cambridge, MA, United States of America ~72: AKINC, Akin~ 33:US ~31:62/793,020 ~32:16/01/2019

2021/04966 ~ Complete ~54:PREPARATION METHOD OF MILK CLARIFICANT AND APPLICATION THEREOF ~71:Henan Agricultural University, No.15 Zhengzhou University Park, Zhengzhou City, Henan Province, People's Republic of China ~72: Han Liqiang;Pang Kun~

2021/04967 ~ Complete ~54:A THREE-DIMENSIONAL GRAPHENE GAS SENSITIVE SENSOR AND ITS PREPARATION METHOD ~71:XI AN TECHNOLOGICAL UNIVERSITY, No.2 Xuefu Middle Road, Weiyang District, Xi An City, Shaanxi, 710021, People's Republic of China ~72: Bai Minyu;Du Yuxuan;Jia Jinmei;Liu Huan;Liu Weiguo;Wen Shuai;Xie Fei;Xie Wanpeng;Zhao Jijie~ 33:CN ~31:202011639625.4 ~32:31/12/2020

2021/04977 ~ Complete ~54:DEFENSIN FRAGMENTS FOR USE IN THERAPY OR PROPHYLAXIS ~71:AESCLUS BIO APS, c/o COBIS, Ole Maal&#248;es Vej 3, Denmark ~72: EHMANN, Dirk;WEHKAMP, Jan~ 33:DE ~31:10 2019 100 230.3 ~32:07/01/2019;33:DE ~31:10 2019 108 626.4 ~32:02/04/2019

2021/04982 ~ Complete ~54:CRYSTALLINE FORM OF A CDK INHIBITOR ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: BEHENNA, Douglas Carl;ORNELAS, Martha Alicia~ 33:US ~31:62/793,516 ~32:17/01/2019;33:US ~31:62/949,990 ~32:18/12/2019

2021/04987 ~ Complete ~54:SCREEN CONTROL METHOD, ELECTRONIC DEVICE, AND STORAGE MEDIUM ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: DING, Ning;XIONG, Liudong;ZHANG, Chao;ZHANG, Ziyue~ 33:CN ~31:201910135444.9 ~32:22/02/2019

2021/04970 ~ Complete ~54:FRICTION FIT DRILL BIT ASSEMBLY FOR A SELF-DRILLING ROCK BOLT ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: PASTORINO, Paolo Ettore~ 33:ZA ~31:2020/04337 ~32:15/07/2020

2021/04981 ~ Complete ~54:BATTERY PACK ASSEMBLY ~71:ACELERON LIMITED, 22 Gas Street, United Kingdom ~72: CHANDAN, Amrit;CUMMINS, Carlton~ 33:GB ~31:1821086.4 ~32:21/12/2018

2021/04972 ~ Complete ~54:EXPERIMENTAL SYSTEM FOR SUPPRESSING PROPAGATION OF COMBUSTIBLE GAS EXPLOSION AND EXPERIMENTAL METHOD THEREFOR ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: GU, Shicheng;GUO, Shengli;LIU, Yi;LU, Hui;YAN, Zhuo;YUAN, Shujie;ZHANG, Yingpeng~

2021/04998 ~ Complete ~54:COMPOSITION COMPRISING TOLFENPYRAD AND PYRACLOSTROBIN ~71:PI INDUSTRIES LIMITED, Post Box No. 20, Udaisagar Road, India ~72: ACHARYA, Ashutosh;AUTKAR, Santosh Shridhar;BHARAMBE, Shailendra Mitharam;CHOUHAN, Pushpender Singh;DUTTA, Ashim Kumar;GADE, Vishwanath;GARG, Ruchi;SARAGUR, Ravikumar Suryanarayana~ 33:IN ~31:201911002128 ~32:17/01/2019



2021/04976 ~ Complete ~54:METHODS OF MAKING AND USING PH MODULATING COMPOSITIONS IN THE REPRODUCTIVE SYSTEM ~71:CRAPAUD BIO, INC, CRAPAUD BIO, INC., P.O.BOX 927, WOOSTER, OHIO 44691, USA, United States of America ~72: GRIFFISS, J. McLeod~ 33:US ~31:62/743,286 ~32:09/10/2018

2021/04986 ~ Complete ~54:PSMA BINDING DUAL MODE RADIOTRACER AND THERAPEUTIC ~71:Technische Universit&#228;t M&#252;nchen, Arcisstr. 21, M&#220;NCHEN 80333, GERMANY, Germany;Technische Universit&#228;t M&#252;nchen - Klinikum Rechts der Isar, Ismaningerstrasse 22, M&#220;NCHEN 81675, GERMANY, Germany ~72: EIBER, Matthias Johannes;WESTER, Hans-J&#252;rgen;WURZER, Alexander Josef~ 33:EP ~31:19154500.3 ~32:30/01/2019

2021/05000 ~ Complete ~54:FUNGICIDAL MIXTURE ~71:ADAMA MAKHTESHIM LTD., P.O. Box 60, Israel ~72: CHEYLAN Simon;HUART Gerald;HUGO Kalla;POLLMANN Bernardo~ 33:US ~31:62/786,591 ~32:31/12/2018

2021/04985 ~ Complete ~54:CANCER DIAGNOSTIC IMAGING AGENTS ~71:Technische Universit&#228;t M&#252;nchen, Arcisstr. 21, M&#220;NCHEN 80333, GERMANY, Germany;Technische Universit&#228;t M&#252;nchen - Klinikum Rechts der Isar, Ismaningerstrasse 22, M&#220;NCHEN 81675, GERMANY, Germany ~72: EIBER, Matthias Johannes;WESTER, Hans-J&#252;rgen;WURZER, Alexander Josef~ 33:EP ~31:19154495.6 ~32:30/01/2019

- APPLIED ON 2021/07/16 -

2021/05019 ~ Complete ~54:HIGH-PRECISION HEXAGONAL SPACE DOUBLE-LAYER REFLECTOR ANTENNA BACKUP STRUCTURE ~71:THE 54TH RESEARCH INSTITUTE OF CHINA ELECTRONICS TECHNOLOGY GROUP CORPORATION, No. 589 West Zhongshan Road Shijiazhuang, People's Republic of China ~72: CHEN, Long;DU, Biao;LIU, Guoxi;YANG, Jinrong;ZHAO, Junhong;ZHENG, Yuanpeng~ 33:CN ~31:201811552047.3 ~32:18/12/2018

2021/05010 ~ Complete ~54:AUTOMATIC SEWAGE TREATMENT SYSTEM AND PREPARATION METHOD OF BIOLOGICAL CARRIER ~71:Hubei Huinong Biological Technology Co., Ltd., No. 18, Group 9, Cunfang Village, Sanli Town, Jianshi, Hubei, People's Republic of China ~72: Enjui Hsu;Xianpin Cui~

2021/05033 ~ Complete ~54:METHODS FOR DETERMINING PHOTSENSITIVE PROPERTIES OF A MATERIAL ~71:THE CHEMOURS COMPANY FC, LLC, 1007 Market Street, Wilmington, Delaware, 19801, United States of America ~72: CHERYL MARIE STANCIK;DENISE A CONNER;TODD ROBERT EATON~ 33:US ~31:62/809,111 ~32:22/02/2019

2021/05029 ~ Complete ~54:BELL PLATE, ATOMIZER-TYPE CLEANING DEVICE, AND ASSOCIATED OPERATING METHOD ~71:D&#220;RR SYSTEMS AG, Carl-Benz-Stra&#223;e 34, 74321 , Bietigheim-Bissingen, Germany ~72: BERNHARD SEIZ;DANIEL LUZ;FRANK HERRE;HANS-J&#220;RGEN NOLTE;KEVIN PREUSS;MICHAEL BAUMANN;THOMAS BUCK~ 33:DE ~31:10 2019 107 847.4 ~32:27/03/2019

2021/05002 ~ Provisional ~54:ALTERNATIVE TO DESALINATION OF IRRIGATION WATER ~71:Ockert Tobias van Niekerk, 15 Goud Street, South Africa ~72: Ockert Tobias van Niekerk~

2021/05008 ~ Complete ~54:INSTANT KONJAC GLUCOMANNAN BUDDHA JUMPING WALL JELLY AND PREPARATION METHOD THEREOF ~71:Fujian Agriculture and Forestry University, No.15 Shangxiadian Road, Cangshan District, Fuzhou City, Fujian Province, People's Republic of China ~72: Lin Qingwei;Liu Jingwen;Pang Jie;Sun Jishuai;Tong Cailing;Wu Chunhua;Zhao Jianbo~

2021/05035 ~ Complete ~54:THERAPEUTIC COMPOSITION OF INTRANASAL LIDOCAINE ~71:NORTIC HOLDINGS INC., 2 Tower Center Blvd. Suite 1101, United States of America ~72: KAVURU, Vimal;KOTTAYIL,

S. George;KUMAR, Amresh;PATI, Kamalkishore;SUNTHANKAR, Prasanna~ 33:US ~31:62/781,969  
~32:19/12/2018

2021/05012 ~ Complete ~54:NON-INVASIVE LONG-RANGE SUBSTANCE DETECTION DEVICE BASED ON EARTH'S FIELD NUCLEAR MAGNETIC RESONANCE ~71:Henan Lamor Quantum Technology Co., Ltd, No.1325, 13 / F, Longyu International Building, Shangding Road & Dongfeng South Road, Zhengzhou Area (Zhengdong), Henan Pilot FTZ, Zhengzhou, Henan Province, People's Republic of China;Liu Mengyi, No. 204, Building 25, Huayan Beili, Chaoyang District, Beijing, People's Republic of China;Zhang Junbin, Caoxi 2, Caozhen Township, Zhanhe District, Pingdingshan, Henan Province, People's Republic of China ~72: Liu Mengyi;Zhang Junbin~

2021/05025 ~ Complete ~54:METHOD OF PROVIDING AN ORAL CARE BENEFIT USING A POORLY-SOLUBLE CALCIUM COMPOUND AND FLUORIDE ~71:Johnson & Johnson Consumer Inc., 199 Grandview Road, SKILLMAN 08558, NJ, USA, United States of America ~72: QUEIROZ, Daniel;TESTER, Chantel~ 33:US ~31:16/222,339 ~32:17/12/2018

2021/05005 ~ Complete ~54:A SECURE POWER MANAGEMENT AND LOGGING DEVICE FOR ELECTRICALLY OPERATED MACHINES WITH OR WITHOUT STARTER BATTERIES ~71:Giuliano RES, P.O. Box 760, Five Dock, Australia ~72: Giuliano RES~ 33:AU ~31:2020902466 ~32:16/07/2020

2021/05013 ~ Complete ~54:MULTIFUNCTIONAL UNIAXIAL TESTER FOR FROZEN SOIL AND INSTRUCTION FOR OPERATION ~71:Anhui University of Science and Technology, No. 168, Taifeng Avenue, Huainan City, Anhui Province, People's Republic of China ~72: Huang Kun;Ma Dongdong;Ma Qinyong;Shi Yuhang~

2021/05017 ~ Complete ~54:ENCAPSULATED PESTICIDE ~71:PANGAEA AGROCHEMICALS LIMITED, St John's Innovation Centre, Cowley Road, United Kingdom ~72: HAIGH, Graham~ 33:GB ~31:1821031.0 ~32:21/12/2018

2021/05031 ~ Complete ~54:FLEXIBLE ALLOCATION OF REGULAR BINS IN RESIDUAL CODING FOR VIDEO CODING ~71:INTERDIGITAL VC HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: ANTOINE ROBERT;FABRICE LELEANNEC;YA CHEN~ 33:EP ~31:19305292.5 ~32:12/03/2019;33:EP ~31:19305645.4 ~32:21/05/2019;33:EP ~31:19305649.6 ~32:23/05/2019

2021/05036 ~ Provisional ~54:ACCOMODATION APP ~71:SIFISO SIPHO THUBANE, SIYABUSWA D STAND NUMBER 1630, South Africa ~72: SIFISO SIPHO THUBANE~

2021/05004 ~ Provisional ~54:HYDROELECTRIC ENERGY STORAGE SYSTEM ~71:JOUBERT TRUST, Trust number: IT000900/2018(C), Nr 4 High Riding Estate, Sir Lowry's Pass, Western Cape, 7130, South Africa ~72: CHRISTIAAN JOHANNES JOUBERT~

2021/05011 ~ Complete ~54:METHOD FOR IMPROVING FUNCTIONAL COMPONENTS IN LAMB BY FEEDING SWEET SORGHUM SILAGE DIET ~71:Lanzhou University, No.222 Tianshui South Road, Chengguan District, Lanzhou City, Gansu Province, People's Republic of China ~72: Fu Xiaoyue;Hou Mingjie;Shang Zhanhuan;Wang Chen;Wang Hucheng~

2021/05020 ~ Complete ~54:PHARMACEUTICAL COMBINATION OF ANTI CEACAM6 AND TIM3 ANTIBODIES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: B&#214;HM, Hans-Henning;BECKHOVE, Philip;OFFRINGA, Rienk;TRAUTWEIN, Mark;WILLUDA, J&#246;rg~ 33:EP ~31:18214059.0 ~32:19/12/2018

2021/05023 ~ Complete ~54:FORMULATIONS OF ANTIBODIES THAT BIND HUMAN CD137 AND USES THEREOF ~71:Compass Therapeutics LLC, 80 Guest Street, Suite 601, BRIGHTON 02135, MA, USA, United States of America ~72: WANG, Xianzhe;ZARBIS-PAPASTOITSIS, Grigorios~ 33:US ~31:62/793,342 ~32:16/01/2019;33:US ~31:62/960,501 ~32:13/01/2020

2021/05006 ~ Complete ~54:COMPOUNDS AND SYNTHETIC METHODS FOR THE PREPARATION OF RETINOID X RECEPTOR-SPECIFIC RETINOIDS ~71:IO THERAPEUTICS, INC., 1805 EAST GARRY AVENUE, SUITE 110, SANTA ANA, CALIFORNIA 92705, USA, United States of America ~72: CHANDRARATNA, Roshantha, A.;JACKS, Thomas;THOMPSON, Andrew;VULIGONDA, Vidyasagar, Pradeep;WADE, Peter~ 33:US ~31:62/588,163 ~32:17/11/2017;33:US ~31:62/671,137 ~32:14/05/2018

2021/05022 ~ Complete ~54:TREE-BASED TRANSFORM UNIT (TU) PARTITION FOR VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: EGILMEZ, Hilmi Enes;KARCZEWICZ, Marta;SAID, Amir;SEREGIN, Vadim~ 33:US ~31:62/782,292 ~32:19/12/2018;33:US ~31:16/715,274 ~32:16/12/2019

2021/05034 ~ Complete ~54:COUNTERCURRENT CONTACTING DEVICES ~71:KOCH-GLITSCH, LP, 4111 East 37th Street North, Wichita, Kansas, 67220, United States of America ~72: IZAK NIEUWOUDT;SERGIO ESCOBAR~ 33:US ~31:16/281,351 ~32:21/02/2019;33:US ~31:16/712,995 ~32:13/12/2019;33:US ~31:16/744,174 ~32:15/01/2020

2021/05021 ~ Complete ~54:METHYL {4,6-DIAMINO-2-[5-FLUORO-1-(2-FLUOROBENZYL)-1H-PYRAZOLO[3,4-B]PYRIDIN-3-YL]PYRIMIDIN-5-YL}CARBAMATE ACTIVE COMPOUND PRODUCT HAVING IMPROVED PROPERTIES, PRODUCTION AND FORMULATION THEREOF ~71:Adverio Pharma GmbH, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BECKER, Guido;BROCKOB, Joerg;FEY, Peter;LONGERICH, Markus;NEUMANN, Heike;SOWA, Michal~ 33:EP ~31:18213115.1 ~32:17/12/2018

2021/05014 ~ Complete ~54:A COVER DEVICE FOR A LOCKING ARRANGEMENT ~71:ASKI Consulting (Pty) Ltd, 875 Woodlands Estate, 20 Candican Road, Barbeque Downs, Midrand, 1684, SOUTH AFRICA, South Africa ~72: SOOKHINUNTHEN, Ashlen Bijay~ 33:ZA ~31:2020/04396 ~32:17/07/2020

2021/05016 ~ Complete ~54:APPARATUS AND METHOD FOR REPRODUCING A SPATIALLY EXTENDED SOUND SOURCE OR APPARATUS AND METHOD FOR GENERATING A BITSTREAM FROM A SPATIALLY EXTENDED SOUND SOURCE ~71:FRAUNHOFER-GESELLSCHAFT ZUR F&#214;RDERUNG DER ANGEWANDTEN FORSCHUNG E.V., HANSASTRA&#223;E 27C, 80686 M&#220;NCHEN, GERMANY, Germany ~72: ADAMI, Alexander;HABETS, Emanuel;HERRE, J&#252;rgen;SCHLECHT, Sebastian~ 33:EP ~31:18214182.0 ~32:19/12/2018

2021/05024 ~ Complete ~54:INSECTICIDAL FORMULATION FOR VECTOR AND PEST CONTROL WITH INCREASED CONTACT EFFICACY ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: ARLT, Alexander;GUTSMANN, Volker;HERTLEIN, Peter;HORSTMANN, Sebastian;VELTEN, Robert;VERMEER, Arnoldus~ 33:EP ~31:18213629.1 ~32:18/12/2018

2021/05030 ~ Complete ~54:A SOAP BAR WITH IMPROVED PERFUME IMPACT AND DEPOSITION OF ACTIVES ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AJIT MANOHAR AGARKHED;CONNOR WALSH;GEORGIA L SHAFER;GUOHUI WU;NITISH KUMAR;PREM CHANDAR~ 33:EP ~31:19160274.7 ~32:01/03/2019

2021/05009 ~ Complete ~54:METHOD AND APPARATUS FOR MULTI-LEVEL INDEPENDENT CONTRACTOR ~71:Blacklist Consulting, LLC, 6000 Grafton Road, VALLEY CITY 44280, OH, USA, United States of America ~72: KNEEBUSCH, William C.~ 33:US ~31:63/167,891 ~32:30/03/2021

2021/05018 ~ Complete ~54:METHOD AND ARRANGEMENT FOR PROCESS WATER TREATMENT  
~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: JANSSON, Kaj~ 33:WO  
~31:PCT/FI2018/050943 ~32:18/12/2018

2021/05028 ~ Complete ~54:HIGH RESOLUTION AUDIO 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: GAO, Yang~ 33:US ~31:62/791,820 ~32:13/01/2019

2021/05032 ~ Complete ~54:SMART SURVEILLANCE SYSTEM FOR SWIMMING POOLS ~71:POOL KNIGHT, LLC, 11517 Whispering Hollow Drive, Tampa, Florida, 33635, United States of America ~72: DAVID C MAY;PHILLIP E MATAR;RAMY R GALI~ 33:US ~31:62/798,017 ~32:29/01/2019;33:US ~31:16/774,933 ~32:28/01/2020

2021/05007 ~ Complete ~54:GAS PRODUCTION TEST SYSTEM AND METHOD FOR COAL AND ROCK SAMPLES UNDER ACTION OF TEMPERATURE AND PRESSURE ~71:Central South University, #932 Lu-san South Street, Yue-lu District, Changsha City, Hunan Province, People's Republic of China ~72: Lv Zhihai;Ma Chunde;Peng Kang;Wang Yeshun;Wang Zihe~

2021/05027 ~ Complete ~54:DEVICES AND METHODS FOR COLLECTING SALIVA SAMPLES FROM THE ORAL CAVITY ~71:Johnson & Johnson Consumer Inc., 199 Grandview Road, SKILLMAN 08558, NJ, USA, United States of America ~72: FOUGERE, Richard~ 33:US ~31:16/225,800 ~32:19/12/2018

2021/05003 ~ Provisional ~54:SYSTEM AND METHOD FOR PERFORMING DISTRACTION OSTEOGENESIS ~71:NELSON MANDELA UNIVERSITY, Room 1207, 12th Floor, Main Building, Nelson Mandela University, Summerstrand Campus (South), University Way, South Africa ~72: ABOU-EL-HOSSEIN, Khaled;HATEFI, Shahrokh;SMITH, Farouk~

2021/05026 ~ Complete ~54:INSECTICIDAL FORMULATION FOR VECTOR AND PEST CONTROL WITH INCREASED CONTACT EFFICACY ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: ARLT, Alexander;GUTSMANN, Volker;HERTLEIN, Peter;HORSTMANN, Sebastian;VELTEN, Robert;VERMEER, Arnoldus~ 33:EP ~31:18213622.6 ~32:18/12/2018

- APPLIED ON 2021/07/19 -

2021/05073 ~ Complete ~54:PET TOY ~71:LOFRANCO, DEBRA, GALLOWAY, United States of America ~72: LOFRANCO, Debra~ 33:US ~31:62/787,624 ~32:02/01/2019;33:US ~31:62/910,144 ~32:03/10/2019

2021/05085 ~ Complete ~54:CLIP-ON SECURING SYSTEM AND FASTENING COMPONENT THEREFOR ~71:GLEN, Darren Sean, 247 Woodlands Estate, Beryl Road, Goedeburg, BENONI, Johannesburg 1501, Gauteng, SOUTH AFRICA, South Africa ~72: GLEN, Darren Sean~

2021/05037 ~ Provisional ~54:MY CORRUPT FREE DRIVERS LICENCE TECHNOLOGY SOLUTION ~71:SELOTA SHAI, 12 SNEEUGRAS CRESCENT, COUNTRYVIEW, MIDRAND, 1685, South Africa ~72: SELOTA SHAI~

2021/05043 ~ Provisional ~54:VEHICLE ANTI-THEFT DEVICE ~71:MARTINS, JULIO, 95 Victoria Street, Oakdene, South Africa ~72: MARTINS, JULIO~

2021/05045 ~ Provisional ~54:THRUST DEVICE ~71:Rojane Paul Qacha, 135 Chianti Estate, 39 Leeuwkop Road, Sunninghill, Gauteng, 2191, South Africa ~72: Rojane Paul Qacha~

2021/05044 ~ Provisional ~54:BEE SUPPORT DEVICE ~71:Wild House (Pty) Ltd, 16 Market Street, JOHANNESBURG NORTH 2188, SOUTH AFRICA, South Africa ~72: HICKS, Johnathan Edward~

2021/05049 ~ Complete ~54:AUTOMATIC WOOL FEEDING MACHINE ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No.777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: JI, Heju;LI, Changhe;WANG, Xiaoming;XING, Xudong~

2021/05050 ~ Complete ~54:MALE AND FEMALE INTEGRAL MOLD, MOLDS AND SYSTEM FOR SG ABRASIVE MICRO-COPY FORMING HOLES ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No.777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: LI, Changhe;WANG, Zhen;ZHAI, Han;ZHANG, Yanbin~

2021/05059 ~ Complete ~54:NEURAL NETWORK-BASED EDGE COMPUTING SYSTEM AND METHOD ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: LU Jianbo~

2021/05063 ~ Complete ~54:SYSTEMS, DEVICES AND METHODS FOR DETECTION AND/OR PREVENTION OF POWER LINE COMMUNICATION ~71:S.G.A. INNOVATIONS LTD., 4 Yehuda HaNachtom Street Beltech, Building 8424902, Israel ~72: GAL, Shmuel;SHTENDEL, Yuval;TSIRLIN, Alexey~ 33:IL ~31:263929 ~32:24/12/2018

2021/05072 ~ Complete ~54:PRODUCTION LINE OF CA ABRASIVE ~71:QINGDAO SISA ABRASIVES CO., LTD., Qianwangang Road, Huangdao District, Qingdao, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CUI, Xin;GAO, Teng;HOU, Yali;HUANG, Baoteng;LI, Changhe;LI, Runze;LIU, Mingzheng;LU, Bingheng;WANG, Xiaoming;WANG, Zhen;YANG, Min;ZHAI, Han;ZHANG, Naiqing;ZHANG, Yanbin~ 33:CN ~31:2019109267523 ~32:27/09/2019

2021/05075 ~ Complete ~54:ANTIVIRAL COMPOSITIONS AND METHODS ~71:Morehouse School of Medicine, 720 Westview Drive, SW, ATLANTA 30310, GA, USA, United States of America ~72: GBODOSSOU, Erick Vidjin~39; Agnih;POWELL, Michael D.~ 33:US ~31:62/783,035 ~32:20/12/2018

2021/05080 ~ Complete ~54:COOKING POLLUTANT CONTROL METHODS DEVICES AND SYSTEMS ~71:Oy Halton Group Ltd., Firdonkatu 2 T 146, Tripla - Workery West, HELSINKI 00520, FINLAND, Finland ~72: LIVCHAK, Andrey V.;PARVIN, Fuoad A.;SCHROCK, Derek W.~ 33:US ~31:62/801,276 ~32:05/02/2019;33:US ~31:62/939,034 ~32:22/11/2019

2021/05084 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTOR-MODIFIED CELLS FOR THE TREATMENT OF CLDN6-EXPRESSING CANCERS ~71:BIONTECH CELL & GENE THERAPIES GMBH, An der Goldgrube 12, 55131, Mainz, Germany ~72: BENJAMIN RENGSTL;KATHARINA REINHARD;KRISTINA MICHEL;PETRA OEHM;UGUR SAHIN~ 33:EP ~31:PCT/EP2019/053156 ~32:08/02/2019

2021/05038 ~ Provisional ~54:TRIP MOVIE GENERATOR SYSTEM AND ASSOCIATED METHODS ~71:MARK WYNESS VOSLOO, 47 NORTHOAKS PRIVATE ESTATE, NORTHOAKS AVENUE, HOUT BAY, South Africa ~72: MARK WYNESS VOSLOO~

2021/05039 ~ Provisional ~54:WATER TREATMENT MIXTURE ~71:BREYTENBACH, Andries Johannes, 55 Springhaas Street, South Africa ~72: BREYTENBACH, Andries Johannes~

2021/05046 ~ Complete ~54:WATER LEAKAGE PREVENTING DEVICE AND METHOD FOR MOBILE RIGID BOXBOARD IN GEOTECHNICAL TRUE TRIAXIAL TEST ~71:CHN ENERGY BAOSHEN RAILWAY GROUP



CO., LTD., No. 1, A'erdong Street, Kunqu, People's Republic of China; QINGDAO UNIVERSITY OF TECHNOLOGY, No. 11, Fushun Road, Shibei District, People's Republic of China ~72: GUAN, Da; LING, Xianzhang; LIU, Xiu; SU, Lei; YANG, Zhongnian; ZHANG, Yongqiang; ZHAO, Yingying~

2021/05081 ~ Complete ~54: MODIFIED ORTHOPOXVIRUS VECTORS ~71: OTTAWA HOSPITAL RESEARCH INSTITUTE, 501 Smyth Road, Ottawa, Ontario, K1H 8L6, Canada; TURNSTONE BIOLOGICS CORP., 920 Broadway, 16th Floor, New York, New York, 10010, United States of America ~72: ADRIAN PELIN; CAROLINE J BREITBACH; JOHN C BELL; MATTHEW Y TANG; MICHAEL F BURGESS; MICHAEL S HUH; STEVEN H BERNSTEIN~ 33:US ~31:62/784,372 ~32:21/12/2018; 33:US ~31:62/872,699 ~32:10/07/2019; 33:US ~31:62/930,524 ~32:04/11/2019

2021/05042 ~ Provisional ~54: AN APP FOR LENS THAT CAN FOCUS LIGHT TO FORM AN IMAGE ~71: Dennis Cassim Mphoreng, 2179 Watsonia Street eMalahleni 1035, South Africa ~72: Dennis Cassim Mphoreng~

2021/05068 ~ Complete ~54: INTELLIGENT AUTOMATIC DETECTION DEVICE FOR MOTOR COMMUTATOR ~71: NINGBO POLYTECHNIC, 388 Lushan East Road, Ningbo Economic And Technological Development Zone, Ningbo, People's Republic of China ~72: CHEN, Yixuan; CHEN, Zizhen~ 33:WO ~31:PCT/CN2021/103033 ~32:29/06/2021

2021/05078 ~ Complete ~54: UTILIZING SPATIAL STATISTICAL MODELS FOR IMPLEMENTING AGRONOMIC TRIALS ~71: The Climate Corporation, 201 Third Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: CARRION, Carlos; CIZEK, Nicholas; DELANEY, James; JOHANNESSEN, Gardar; LADONI, Moslem; LEMOS, Ricardo; LUTZ, Brian; TERRES, Maria~ 33:US ~31:62/782,587 ~32:20/12/2018

2021/05062 ~ Complete ~54: A METHOD FOR NON-CATALYTIC DELIGNIFICATION OF BIOMASS INSIDE AN APPARATUS ~71: LIGNOPURA AGROTECH PVT LTD., Plot No. 113, Survey No. 902, OM' Building, Chetana Nagar, Nasik, India ~72: KOLHE, Nitin~ 33:IN ~31:201921002226 ~32:18/01/2019

2021/05248 ~ Complete ~54: CHIMERIC ANTIGEN AND T CELL RECEPTORS AND METHODS OF USE ~71: KITE PHARMA, INC., 2225 Colorado Avenue, Santa Monica, United States of America ~72: WILTZIUS, Jed~ 33:US ~31:62/317,258 ~32:01/04/2016

2021/05040 ~ Provisional ~54: POWDERED MILK FORMULA FOR AN INFANT ~71: SERGEY (PTY) LTD, 41 Paul Kruger Street Botharus Despatch, South Africa ~72: PAKADE, Nontembiso Theodora; SEPTEMBER, Nokuthula Sylvia~

2021/05053 ~ Complete ~54: DEMONSTRATIVE TEACHING AID FOR USE IN TEACHING OF MECHANICAL DRAWING ~71: Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: HAN, Ning~

2021/05056 ~ Complete ~54: METHOD FOR CHEMICALLY INDUCING ALLOTRIPLOID ABALONE ~71: Xiamen University, 422 Siming South Road, Xiamen, Fujian, 361005, People's Republic of China ~72: KE, Caihuan; LUO, Xuan; WANG, Xingze; WANG, Yi; YOU, Weiwei~

2021/05041 ~ Provisional ~54: CLEANING BRUSH ~71: SNYMAN, Guy Ian, 5 Anglers Way Estate, South Africa ~72: SNYMAN, Guy Ian~

2021/05052 ~ Complete ~54: DATA PROCESSING METHOD FOR DNA COMPUTING ~71: Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: HUANG, Kaifeng; LIU, Congcong; TANG, Zhen; YANG, Jing~

2021/05055 ~ Complete ~54:FUSION PROTEINS OF HUMAN PROTEIN FRAGMENTS TO CREATE ORDERLY MULTIMERIZED IMMUNOGLOBULIN FC COMPOSITIONS WITH ENHANCED COMPLEMENT BINDING ~71:Gliknik Inc., 801 W. Baltimore Street, Suite 501A, BALTIMORE 21201, MD, USA, United States of America ~72: BLOCK, David S.;OLSEN, Henrik~ 33:US ~31:62/196,478 ~32:24/07/2015

2021/05054 ~ Complete ~54:A PIPE-RELINING APPARATUS ~71:PLUMVAC PROJECTS AND SERVICES (PTY) LTD, 7 Carradale Close, Sunningdale Garden City, South Africa ~72: BREYTENBACH, Ryan Alec;MOSTERT, Andre~ 33:ZA ~31:2020/05544 ~32:08/09/2020

2021/05067 ~ Complete ~54:A TEMPERATURE SENSING LAVAGE CATHETER ~71:EIGHT MEDICAL INTERNATIONAL B.V., Gardermoenbaan 25, 3045AX, Netherlands ~72: VAN DER WERF, Eelko~ 33:EP ~31:19153029.4 ~32:22/01/2019

2021/05074 ~ Complete ~54:MINERAL-OIL-FREE LUBRICANT AND METHOD FOR PRODUCING A MINERAL-OIL-FREE LUBRICANT ~71:KAJO GMBH, BOSCHSTR. 13, 59609 ANR&#214;CHTE, GERMANY, Germany ~72: BONGARDT, Frank;JOHN, Markus~ 33:DE ~31:10 2018 133 586.5 ~32:24/12/2018

2021/05079 ~ Complete ~54:HERBICIDAL COMBINATION ~71:UPL LTD, Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA, India ~72: LIMA SILVA, Ferdinando Marcos;MEGDA, Flavia Ferreira~ 33:IN ~31:201931000998 ~32:09/01/2019

2021/05086 ~ Complete ~54:A PORTABLE AND RECHARGEABLE BLENDER ~71:BLENDJET INC., 5159 Commercial Circle, Suite B, United States of America ~72: PAMPLIN, Ryan Michael~ 33:US ~31:16/237,183 ~32:31/12/2018

2021/05047 ~ Complete ~54:RESISTANCE SPOT WELDING CONNECTION METHOD FOR THIN PLATE AND ULTRATHIN PLATE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, People's Republic of China ~72: JI, JIADONG;XIE, JING;ZHAO, DEWANG;ZHAO, KUNMIN~

2021/05061 ~ Complete ~54:LIQUID TOBACCO EXTRACT, METHOD FOR MAKING AND AEROSOL-GENERATING ARTICLES COMPRISING SUCH ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BIASIOLI, Matteo;FARINE, Marie;FRAUENDORFER, Felix;KUC, Jagoda;LANASP&#200;ZE, S&#233;bastien;LAUENSTEIN, Stefan;MIVELAZ, Beno&#238;t;RAPHOZ, Christel;SILVESTRINI, Patrick, Charles;TZIMOULIS, Steve~ 33:EP ~31:19178548.4 ~32:05/06/2019

2021/05065 ~ Complete ~54:NEW CONJUGATED NUCLEIC ACID MOLECULES AND THEIR USES ~71:ONXEO, 49 BOULEVARD DU G&#201;N&#201;RAL MARTIAL VALIN, 75015 PARIS, FRANCE, France ~72: BONO, Fran&#231;oise;SIMON, Alexandre;SPROAT, Brian;ZANDANEL, Christelle~ 33:EP ~31:18306826.1 ~32:21/12/2018;33:EP ~31:18306829.5 ~32:21/12/2018;33:EP ~31:19202834.8 ~32:11/10/2019;33:EP ~31:19202837.1 ~32:11/10/2019

2021/05070 ~ Complete ~54:SLAG DESIGN METHOD FOR IRON TRAPPING OF PLATINUM GROUP METALS FROM SPENT CATALYSTS ~71:UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING, No. 30 Xueyuan Road, Haidian District, People's Republic of China ~72: DING, Yunji;ZHANG, Shengen~ 33:CN ~31:202010631384.2 ~32:03/07/2020

2021/05077 ~ Complete ~54:METHOD FOR DETECTING AND ENUMERATING OF LOW CONCENTRATIONS OF LISTERIA ~71:Sensilist AS, Kjeller Innovasjon AS, Gunnar Randers' vei 24, KJELLER 2007, NORWAY, Norway ~72: F&#198;GRI, Agnete;KOFITSYO SEWORNU CUDJOE, Isaac;MATHISEN FAGERENG, Tone;SKJERDAL, Taran~ 33:NO ~31:20181688 ~32:21/12/2018

2021/05058 ~ Complete ~54:METHOD FOR PREPARING A PHOTOCONDUCTIVE DEVICE BASED ON QUANTUM DOTS AND HIGH MOLECULAR POLYMERS ~71:XI AN TECHNOLOGICAL UNIVERSITY, No.2 Xuefu Middle Road, Weiyang District, Xi An City, Shaanxi, 710021, People's Republic of China ~72: Bai Minyu;Bai Yang;Du Yuxuan;Liu Guanlin;Liu Huan;Liu Weiguo;Tian Lulu;Wen Shuai;Xie Fei;Zhao Jijie~ 33:CN ~31:202110061715.8 ~32:18/01/2021

2021/05069 ~ Complete ~54:METHOD FOR PYROMETALLURGICAL CONCENTRATION OF PLATINUM GROUP METALS FROM SPENT ALUMINA-BASED CATALYSTS ~71:UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING, No. 30 Xueyuan Road, Haidian District, People's Republic of China ~72: DING, Yunji;ZHANG, Shengen~ 33:CN ~31:202010835163.7 ~32:19/08/2020

2021/05076 ~ Complete ~54:AMMONIUM-FUNCTIONALIZED SACCHARIDE POLYMERS AND METHODS FOR PRODUCTION AND USE THEREOF ~71:Integrity Bio-Chemicals, LLC, 1100 North Cresson HWY, CRESSON 76035, TX, USA, United States of America ~72: BLACKMON, Matthew B.;GIBBS, William;KURI, Laura;MADDURI, Ashoka V.R.;VHORA, Sameer~ 33:US ~31:62/871,967 ~32:09/07/2019

2021/05082 ~ Complete ~54:INHIBITORS OF INTEGRATED STRESS RESPONSE PATHWAY ~71:PRAXIS BIOTECH LLC, 1700 Owens Street Suite 515, San Francisco, California, 94158, United States of America ~72: BRAHMAM PUJALA;DAYANAND PANPATIL;GONZALO ANDRÉS;S URETA D&#205;AZ;GONZALO ESTEBAN N&#218;&#209;EZ VASQUEZ;LUZ MARINA DELGADO OYARZO;SEBASTIAN BERNALES~ 33:US ~31:62/810,324 ~32:25/02/2019;33:US ~31:62/943,643 ~32:04/12/2019

2021/05048 ~ Complete ~54:CERAMIC-CORE ANNULAR COPPER ELECTRODE AND RESISTANCE SPOT WELDING METHOD THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: JI, Jiadong;XIE, Jing;ZHAO, Dewang;ZHAO, Kunmin~

2021/05051 ~ Complete ~54:AUTOMOBILE INTELLIGENT ANTI-COLLISION DECELERATION BRAKING AND EMERGENCY BRAKING SYSTEM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: KAISONG WANG;KUOSHENG JIANG;QINGHUA CHEN~

2021/05066 ~ Complete ~54:PROCEDURES ENABLING V2X UNICAST COMMUNICATION OVER PC5 INTERFACE ~71:IDAC HOLDINGS, INC., 200 Bellevue Parkway Suite 300 Wilmington, United States of America ~72: AHMAD, Saad;ANWAR, Khalid;FERDI, Samir;PERRAS, Michelle~ 33:US ~31:62/794,052 ~32:18/01/2019

2021/05071 ~ Complete ~54:CONVEYING AND SCREENING DEVICE, SPIRAL PUSHING TYPE PEANUT KERNEL GRADING MACHINE AND METHOD THEREOF ~71:HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.263, Kaiyuan Avenue, Luoyang, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No.777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No.403, Nanchang Road, Urumqi, People's Republic of China ~72: FENG, Yitian;FU, Hui;GAO, Lianxing;HOU, Yali;JIA, Zhenming;LI, Changhe;LI, Mingchen;LI, Xinpeng;LIU, Mingzheng;LU, Chunan;MA, Yannan;MIAO, Guangzhen;TURDI, Tuluhon;WANG, Rong;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin~ 33:CN ~31:2020102861142 ~32:13/04/2020

2021/05083 ~ Complete ~54:METHODS AND PRODUCTS FOR CONVERTING CARBON DIOXIDE TO ONE OR MORE SMALL ORGANIC COMPOUNDS ~71:PHOSENERGY LTD, Level 2, 1292 Hay Street, West Perth, Western Australia, 6005, Australia ~72: BRYN JONES;JULIAN F KELLY~ 33:AU ~31:2018904898 ~32:21/12/2018

2021/05057 ~ Complete ~54:MULTIFUNCTIONAL PLOTTER SPECIAL FOR ADVANCED MATHEMATICS IN UNIVERSITY ~71:Zhengzhou University of Aeronautics, No. 2, University Middle Road, Zhengzhou City, Henan Province, 450052, People's Republic of China ~72: HE, Xia;LI, Liang;LI, Yonggang;LIU, Weifeng;MENG, Jintao;SHI, Limin;WANG, Xiaodong;ZHANG, Xinyue~ 33:CN ~31:202110488200.6 ~32:06/05/2021

2021/05060 ~ Complete ~54:A DRUG MONITORING TOOL ~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka, Japan ~72: GERALD SPOTTS;MICHAEL NELSON;ROMAN PICHLER~ 33:US ~31:62/451,391 ~32:27/01/2017

2021/05064 ~ Complete ~54:MICROWAVE OSCILLATOR AND MATRIX-TYPE MICROWAVE OSCILLATOR BASED THEREON ~71:MW MATRIX INC., 1990 NE 163rd Street, #233,vNorth Miami Beach, United States of America ~72: TARASOV, Mark~

- APPLIED ON 2021/07/20 -

2021/05088 ~ Provisional ~54:INSURANCE RISK ASSESSMENTS ~71:DAVEY, David Burton, 117 Darrenwood heights, Darrenwood, South Africa ~72: DAVEY, David Burton~

2021/05089 ~ Provisional ~54:BEVERAGE CONTAINER ~71:DE KLERK, John Christopher, 8 Regency Crescent, Leopard Rock Estate, Platterkloof, South Africa;GOLDING, Andrew Mark, Wittebomen-Main House, 11 Per Lane, Constantia, South Africa ~72: DE KLERK, John Christopher;GOLDING, Andrew Mark~

2021/05091 ~ Complete ~54:ACOUSTIC EMISSION MONITORING UNIT FOR A TRUE TRIAXIAL MINING COAL AND ROCK DYNAMIC BEHAVIOR EXPERIMENT ~71:China University of Mining and Technology, No.1, Daxue Road, Xuzhou City, Jiangsu Province, People's Republic of China;Xuzhou Hongyi Technology Development Co., Ltd, No. 20-1-611, Zhongneng Science Park, Sanhuan South Road, Quanshan District, Xuzhou City, Jiangsu Province, People's Republic of China;Xuzhou Wushuo Information Technology Co., Ltd, Room 209-2, 2 / F, Science and Technology Building, Keji Avenue, Quanshan District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Bai Xianxi;Cao Anye;Guo Wenhao;Liu Yaoqi;Wang Changbin;Wang Songwei;Xue Chengchun~

2021/05092 ~ Complete ~54:PH SENSITIVE FRESHNESS DETECTION SMART LABEL, PREPARATION METHOD AND APPLICATION THEREOF ~71:Hainan Tropical Ocean University, Yucai Rd 1#, Jiyang District, Sanya City, Hainan Province, 572000, People's Republic of China;Zhejiang University, Yuhangtang Rd 866#, Hangzhou City, Zhejiang Province, 210058, People's Republic of China ~72: Chen Jianchu;Chen Shiguo;Hu Yaqin;Mao Yunxiang~

2021/05094 ~ Complete ~54:PROTECTION KIT ~71:MUNSAMI, Desigan, 29 Palmwood, 51 Pipit Avenue, Yellowwood Park, South Africa;RUTHNAM, Dharshan, 99 Ronald Road, 5 Pasadena, Montclair, South Africa ~72: MUNSAMI, Desigan;RUTHNAM, Dharshan~

2021/05095 ~ Complete ~54:METHOD FOR INVESTIGATING MOLECULAR MECHANISM UNDERLYING HEPATOMA CELL INVASION AND METASTASIS ~71:QIN, Feng, Department of Pathology, Jinling Hospital, Nanjing University School of Medicine, Nanjing, 210002, Jiangsu, People's Republic of China;SU, Changqing, Department of Pathology, Jinling Hospital, Nanjing University School of Medicine, Nanjing, 210002, Jiangsu, People's Republic of China;WANG, Xiaolu, Department of Pathology, Jinling Hospital, Nanjing University School of Medicine, Nanjing, 210002, Jiangsu, People's Republic of China;ZHANG, Ying, Department of Pathology, Jinling Hospital, Nanjing University School of Medicine, Nanjing, 210002, Jiangsu, People's Republic of China ~72: QIN, Feng;SU, Changqing;WANG, Xiaolu;ZHANG, Ying~

2021/05097 ~ Complete ~54:USE OF ANTI-CEACAM5 IMMUNOCONJUGATES FOR TREATING LUNG CANCER ~71:SANOFI, 54 rue La Boétie, France ~72: ALLARD, Aurore;CHADJAA, Mustapha;COMBEAU, Cécile;DEMERS, Brigitte;HENRY, Christophe;YORUK, Semra~ 33:US ~31:62/802,511 ~32:07/02/2019;33:EP ~31:19305173.7 ~32:11/02/2019;33:EP ~31:19305504.3 ~32:18/04/2019

2021/05102 ~ Complete ~54:LATENCY CONTROL ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: AYADURAI, Vicknesan;DEL CARPIO, VEGA, Luis Felipe;HIERTZ, Guido;WILHELMSSON, Leif~

2021/05111 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION ~71:Actelion Pharmaceuticals Ltd, Gewerbestrasse 16, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: CSONKA, Dániel;FARES, Wassim;HOOGKAMER, Hans;TORFS, Koen~ 33:IB ~31:2018/086724 ~32:21/12/2018;33:IB ~31:2019/051830 ~32:25/01/2019;33:IB ~31:2019/060151 ~32:18/04/2019;33:IB ~31:2019/066494 ~32:21/06/2019;33:IB ~31:2019/067186 ~32:27/06/2019

2021/05124 ~ Provisional ~54:AERODYNAMIC AXLE ASSEMBLY FOR TRAILER ~71:Martin Dirker, Unit 48, Arbor Village, CNR Smith and Bradford Rds., South Africa ~72: Martin Dirker~

2021/05090 ~ Complete ~54:A MANDIBLE LIFTING DEVICE THAT PREVENTS GLOSSOPTOSIS ~71:Chuanlin Ji, No. 16766, Jingshi Road, Lixia District, Jinan, Shandong, People's Republic of China ~72: Chuanlin Ji~ 33:CN ~31:202110400147.X ~32:14/04/2021

2021/05093 ~ Complete ~54:RATOON CULTIVATION METHOD OF ASPARAGUS BY WATER AND FERTILIZER INTEGRATED INFILTRATION IRRIGATION ~71:Biotechnology Research Center, Shandong Academy of Agricultural Sciences, No 202 Gongye North Road, Jinan City, Shan Dong Province, People's Republic of China ~72: Hou Lei;Li Aiqin;Li Guanghui;Pan Jiaowen;Wang Xingjun;Zhao Chuanzhi;Zhao Shuzhen~

2021/05096 ~ Complete ~54:METHODS FOR TREATING SYMPTOMS AND DISORDERS ASSOCIATED WITH LYSOSOMAL STORAGE DISEASES ~71:GENZYME CORPORATION, 50 Binney Street, Cambridge, MA, United States of America ~72: CRAWFORD, Nigel, Patrick, Somerville;FISCHER, Tanya, Zaremba~ 33:US ~31:62/800,996 ~32:04/02/2019;33:US ~31:62/851,433 ~32:22/05/2019;33:US ~31:62/894,167 ~32:30/08/2019;33:US ~31:62/937,618 ~32:19/11/2019;33:US ~31:62/962,647 ~32:17/01/2020

2021/05098 ~ Complete ~54:ARTISANAL PROCESS OF WINE VINEGAR PRODUCTION ~71:VICTOR GUEDES - INDÚSTRIA E COMÉRCIO, S.A., LARGO MONTERROIO MASCARENHAS, NO.1, 1070-184 LISBOA, PORTUGAL, Portugal ~72: CRUZ, Pedro~ 33:PT ~31:115230 ~32:27/12/2018;33:EP ~31:19155797.4 ~32:06/02/2019

2021/05101 ~ Complete ~54:PEPTIDES FOR TREATMENT AND PREVENTION OF DIABETES AND ASSOCIATED DISORDERS ~71:INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France;UNIVERSITE DE STRASBOURG, 4, RUE BLAISE-PASCAL, 67000 STRASBOURG, FRANCE, France ~72: MARION, Vincent~ 33:EP ~31:18306794.1 ~32:21/12/2018

2021/05087 ~ Provisional ~54:COMMUNICATION SYSTEM AND METHOD ~71:PETRO DOMINIC MASEKO, PMA House, Tijger Vallei Office Park, Silver Lakes Road,, South Africa ~72: PETRO DOMINIC MASEKO~

2021/05117 ~ Complete ~54:ACCESSORY FOR AN INJECTION DEVICE INCLUDING A GRIP FOR A NEEDLE CAP ~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: CRERAR, Roy Andrew;FOLEY, Nick;MCDUGALL, Gavin Fraser;MCLUSKY, James Donald;MOWER, James Nicholas~ 33:GB ~31:1821073.2 ~32:21/12/2018



2021/05108 ~ Complete ~54:BAR COMPOSITIONS COMPRISING C10 SOAP WHILE MINIMIZING RATIO OF UNSATURATED C18 SOAP TO CAPRATE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AJIT MANOHAR AGARKHED;CONNOR PATRICK WALSH;GUOHUI WU;NITISH KUMAR;PREM CHANDAR~ 33:EP ~31:19160273.9 ~32:01/03/2019

2021/05115 ~ Complete ~54:CRYSTALLINE FORMS OF A PAR4 INHIBITOR ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: CUNIERE, Nicolas;MBACHU, Victoria A.;SCHLAM, Roxana F.;SHI, Zhongping;VLAHOVA, Petinka I.~ 33:US ~31:62/783,223 ~32:21/12/2018

2021/05119 ~ Complete ~54:ACCESSORY FOR AN INJECTION DEVICE INCLUDING AN EXPOSED CAP REMOVER ~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: CRERAR, Roy Andrew;FOLEY, Nick;MCDUGALL, Gavin Fraser;MCLUSKY, James Donald;MOWER, James Nicholas~ 33:GB ~31:1821112.8 ~32:21/12/2018

2021/05122 ~ Complete ~54:BIOLOGICALLY ACTIVE CLUSTER OF MOLECULES ~71:Charit&#233; - Universit&#228;tsmedizin Berlin, Charit&#233;platz 1, BERLIN 10117, GERMANY, Germany;Sapreme Technologies B.V., Professor Bronkhorstlaan 10 G 92, MB BILTHOVEN 3723, THE NETHERLANDS, Netherlands ~72: FUCHS, Hendrik;POSTEL, Ruben~ 33:NL ~31:2022283 ~32:21/12/2018;33:NL ~31:2023468 ~32:10/07/2019;33:NL ~31:2023568 ~32:25/07/2019

2021/05099 ~ Complete ~54:TREATMENT AND AGITATION DEVICE FOR ULTRAVIOLET, TEMPERATURE AND GASEOUS CONTROLLED STERILIZATION, CURING AND TREATMENT OF AGRICULTURAL PRODUCTS INCLUDING CANNABIS, AND METHODS FOR TREATMENT ~71:Jon GREENFIELD, 434 South San Vicente Boulevard, United States of America ~72: Jon GREENFIELD~ 33:US ~31:62/794,960 ~32:21/01/2019;33:US ~31:16/748,670 ~32:21/01/2020

2021/05112 ~ Complete ~54:IMPROVED CELL-TARGETING BINDING MOLECULE ~71:Charit&#233; - Universit&#228;tsmedizin Berlin, Charit&#233;platz 1, BERLIN 10117, GERMANY, Germany;Sapreme Technologies B.V., Professor Bronkhorstlaan 10 G 92, MB BILTHOVEN 3723, THE NETHERLANDS, Netherlands ~72: FUCHS, Hendrik;POSTEL, Ruben~ 33:NL ~31:2022283 ~32:21/12/2018;33:NL ~31:2023468 ~32:10/07/2019;33:NL ~31:2023568 ~32:25/07/2019

2021/05121 ~ Complete ~54:SEALED ELECTRIC PLUG ~71:Volex Cable Assembly (Shenzhen) Co., Ltd., 1173, Shenhui Road, Bao'an Village, Henggang, Longgang District, SHENZHEN 518115, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: MO, Yuanwen;TOH, Mui Lian Jessica;ZHAO, ChangChun~ 33:CN ~31:201811571707.2 ~32:21/12/2018

2021/05103 ~ Complete ~54:EMOLLIENT COMPOSITION IN EMULSION FORM ~71:PIERRE FABRE MEDICAMENT, 45, place Abel Gance, France ~72: CORDOLIANI, Jean-Fran&#231;ois;MUGUET, Val&#233;rie~ 33:FR ~31:18 73902 ~32:21/12/2018

2021/05114 ~ Complete ~54:DRUG-ELUTING SURGICAL ARTICLES AND RELATED METHODS ~71:BioSapien Inc., 255 West 36th Street, 3rd Floor, NEW YORK 10018, NY, USA, United States of America ~72: ALI, Khatija Pinky~ 33:US ~31:62/783,430 ~32:21/12/2018

2021/05104 ~ Complete ~54:PROCESS FOR THE RECOVERY OF METALS FROM POLYMETALLIC NODULES ~71:UMICORE, Rue du Marais 31, B-1000, Brussels, Belgium ~72: JAN LEYSEN;JEAN SCOYER;MARGOT NEVEN;MICHAEL BALTES;MICHEL DANIELS~ 33:EP ~31:18215028.4 ~32:21/12/2018

2021/05116 ~ Complete ~54:ACCESSORY FOR AN INJECTION DEVICE INCLUDING A PIVOTABLE COVER ~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: CRERAR, Roy Andrew;FOLEY, Nick;MCDUGALL, Gavin Fraser;MCLUSKY, James Donald;MOWER, James Nicholas~ 33:GB ~31:1821074.0 ~32:21/12/2018

2021/05100 ~ Complete ~54:CABLE PUSHER AND RELATED METHODS ~71:J.H. FLETCHER & CO., 402 High Street, P O Box 2187, Huntington, United States of America ~72: HINSHAW, Gregory, E.;KYSLINGER, Bill;STEYN, Jaco~ 33:US ~31:62/783,280 ~32:21/12/2018

2021/05106 ~ Complete ~54:IMAGE CODING METHOD AND DEVICE FOR CARRYING OUT MRL-BASED INTRA PREDICTION ~71:LG ELECTRONICS INC., 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea ~72: JANGWON CHOI;JIN HEO;JUNGAH CHOI;LING LI;SUNMI YOO~ 33:US ~31:62/791,877 ~32:13/01/2019

2021/05110 ~ Complete ~54:SUBSTITUTED OXOPYRIDINE DERIVATIVES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: ANLAUF, Sonja;ELLERBROCK, Pascal;ESSIG, Sebastian;GERICKE, Kersten Matthias;HEITMEIER, Stefan;HILLISCH, Alexander;LANG, Dieter;MEIER, Katharina;MENG, Xianghai;NEUBAUER, Thomas;R&#214;HRIG, Susanne;SCH&#196;FER, Martina;STAMPFUSS, Jan;TERSTEEGEN, Adrian;WANG, Hongping;ZOU, Zengqiang~ 33:IB ~31:2018/122825 ~32:21/12/2018

2021/05113 ~ Complete ~54:LAMINATED GLASS PANE AND METHOD FOR THE PRODUCTION THEREOF ~71:Saint-Gobain Glass France, 18 Avenue d&#39;Alsace, COURBEVOIE 92400, FRANCE, France ~72: BORHANI HAGHIGHI, Sara;WEBER, Patrick;YATIM, Alexandra~ 33:EP ~31:19152806.6 ~32:21/01/2019

2021/05120 ~ Complete ~54:IN-SEASON FIELD LEVEL YIELD FORECASTING ~71:The Climate Corporation, 201 3rd Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: CHEN, Yaqi;GUAN, Wei;JOHANNESSON, Gardar~ 33:US ~31:62/784,252 ~32:21/12/2018

2021/05105 ~ Complete ~54:BISPECIFIC PROTEIN ~71:JIANGSU HENGRUI MEDICINE CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road Minhang District, Shanghai, 200245, People's Republic of China ~72: LIANSHAN ZHANG;NING HE;QIYUE HU;WEIKANG TAO;XIAO LUO;ZHUOXIAO CAO~ 33:CN ~31:201811573634.0 ~32:21/12/2018;33:CN ~31:201811606887.3 ~32:27/12/2018

2021/05118 ~ Complete ~54:ACCESSORY FOR AN INJECTION DEVICE INCLUDING A PIVOTABLE COVER ~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: CRERAR, Roy Andrew;FOLEY, Nick;MCDUGALL, Gavin Fraser;MCLUSKY, James Donald;MOWER, James Nicholas~ 33:GB ~31:1821063.3 ~32:21/12/2018

2021/05107 ~ Complete ~54:PHOTOSENSITIZER COMPOUNDS, METHODS OF MANUFACTURE AND APPLICATION TO PLANTS ~71:SUNCOR ENERGY INC., Suncor Energy Centre, West Tower PO Box 2844, 150 – 6th Avenue SW Calgary, Alberta, T2P 3E3, Canada ~72: BRADY NASH;INNA TESHLE;JUN LIU;KENNETH NG;MICHAEL A BROOK;MICHAEL FEFER;WENZI CKURSHUMOVA;YANG CHEN;YUICHI TERAZONO~ 33:US ~31:62/796,981 ~32:25/01/2019

2021/05109 ~ Complete ~54:SYSTEMS FOR AUTOMATED BLAST DESIGN PLANNING AND METHODS RELATED THERETO ~71:DYNO NOBEL INC., 6440 S. Millrock Drive, Suite 150, Salt Lake City, Utah, 84121, United States of America ~72: JEFFREY AVERETT;JOSEPH NAWROCKI JR.;RUFUS E FLINCHUM;SCOTT GILTNER~ 33:US ~31:62/801,312 ~32:05/02/2019

- APPLIED ON 2021/07/21 -

2021/05152 ~ Complete ~54:ANTI-ELASTIN ANTIBODIES AND METHODS OF USE ~71:CLEMSON UNIVERSITY RESEARCH FOUNDATION, P.O. Box 946 , Clemson, South Carolina, 29633-0946, United States of America ~72: CHARLES D RICE;NARENDRA R VYAVAHARE;NASIM NOSOUDI;SAKETH KARAMCHED;VAIDEESH PARASARAM~

2021/05210 ~ Provisional ~54:AUDIO CALL MESSAGE FOR PUBLIC ANNOUNCEMENT (CALL CENTRE) MEMEZELA APP ~71:MASOMBUKA GEORGE MAKHAYA, 1707 ALLEMANS DRIFT "C", South Africa ~72: MASOMBUKA GEORGE MAKHAYA~

2021/05164 ~ Provisional ~54:TREVECOM SPAS & SALONS BOOKING INNOVATION ~71:Yandisa, 5589 EXT 9, South Africa ~72: Yandisa Kakaza~ 33:ZA ~31:01 ~32:02/06/2021

2021/05154 ~ Complete ~54:CD31 COMPETITORS AND USES THEREOF ~71:ENCEFA, 16 avenue des Arts, 94100 Saint-Maur-des-Fossés, France ~72: DAMIEN TOULORGE;LAURENCE BRESSAC;SERGE GUERREIRO~ 33:EP ~31:19305086.1 ~32:23/01/2019

2021/05160 ~ Complete ~54:CONCENTRATED LIQUID PHARMACEUTICAL FORMULATIONS OF FUROSEMIDE AND METHODS OF ADMINISTERING THE SAME ~71:scPharmaceuticals Inc., 2400 District Avenue, Suite 310, BURLINGTON 01803, MA, USA, United States of America ~72: GROSSI, Alfredo;KOPPENHAGEN, Franciscus;KOSTRABA, Britt;OGUNLEYE, Olatokumbo O. Luca;TERRY, Shannon~ 33:US ~31:62/799,215 ~32:31/01/2019

2021/05133 ~ Complete ~54:FAN FOR SETTLING DUST OF COAL MINE ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Qinghua;CUI, Jinqiong;LI, Sai;SONG, Haoran;ZHANG, Bin;ZHOU, Baojie~

2021/05134 ~ Complete ~54:SUPPORT BRACKET FOR SPRAYER FOR SETTLING DUST OF COAL MINE ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Qinghua;CUI, Jinqiong;SONG, Haoran;WANG, Xiaorun;ZHANG, Sen;ZHANG, Xu~

2021/05147 ~ Complete ~54:LIGHT-EMITTING DIODE PACKAGE ~71:Seoul Semiconductor Co., Ltd., 97-11, Sandan-ro 163beon-gil, Danwon-gu, Ansan-si, , Gyeonggi-do, 15429, Republic of Korea ~72: KIM, Myung Jin;OH, Kwang Yong~ 33:KR ~31:10-2019-0001181 ~32:04/01/2019

2021/05141 ~ Complete ~54:METHOD FOR QUALITATIVE AND/OR QUANTITATIVE DETECTION OF SUBSTANCES CONTAINED IN A HEMP PLANT AND KIT FOR USE THEREIN ~71:SCHMITT, Fritz, 46A avenue John F. Kennedy, Luxembourg ~72: SCHMITT, Fritz~ 33:DE ~31:10 2019 000 016.1 ~32:07/01/2019;33:DE ~31:10 2019 000 018.8 ~32:07/01/2019;33:DE ~31:10 2019 000 199.0 ~32:15/01/2019

2021/05135 ~ Complete ~54:FIRE STARTER ~71:PIETERSE, Roy Garth, 11 Masterman Crescent, Newfields, South Africa ~72: PIETERSE, Roy Garth~

2021/05145 ~ Complete ~54:DEVICE FOR TABLETING A POWDER, LIQUID, PASTE, ENCAPSULATED OR GRANULAR ACTIVE INGREDIENT COMPOSITION ~71:SCHMITT, Fritz, 46A avenue John F. Kennedy, Luxembourg ~72: SCHMITT, Fritz~ 33:DE ~31:10 2019 000 018.8 ~32:07/01/2019;33:DE ~31:10 2019 000 199.0 ~32:15/01/2019;33:DE ~31:10 2019 000 016.1 ~32:07/01/2021

2021/05139 ~ Complete ~54:ENPP1 INHIBITORS AND METHODS OF MODULATING IMMUNE RESPONSE ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel Building 170, 3rd Floor, Main Quad,, United States of America ~72: BOEHNERT, Volker;CAROZZA,

Jacqueline Ann;LI, Lingyin;SMITH, Mark~ 33:US ~31:62/800,283 ~32:01/02/2019;33:US ~31:62/814,745 ~32:06/03/2019

2021/05127 ~ Provisional ~54:SPARK IGNITION COIL ARRANGEMENT ~71:BYLEVELD, Ryan, 12 Wagtail Street, ATLASVILLE, Boksburg 1459, Gauteng, SOUTH AFRICA, South Africa;FONTERNEL, Michael Arnoldus, 5 Evans Road, Benoni Small Farms, BENONI 1501, Gauteng, SOUTH AFRICA, South Africa ~72: BYLEVELD, Ryan;FONTERNEL, Michael Arnoldus~

2021/05128 ~ Complete ~54:AUTOMATIC BUNDLING DEVICE FOR VEGETABLES ~71:Qingdao Agricultural University, No.700,Changcheng Road, Chengyang, Qingdao, Shandong Province, People's Republic of China ~72: Wang Jiwei;Wang Jiasheng~

2021/05161 ~ Complete ~54:ANTI-TIGIT ANTIBODIES ~71:ITEOS BELGIUM SA, Rue des Frères Wright 29, Belgium ~72: CUENDE, Juila;DRIESSENS, Gregory;HOOFD, Catherine~ 33:US ~31:62/789,466 ~32:07/01/2019

2021/05129 ~ Complete ~54:DOUBLE-ROW CARROT COMBINE HARVESTER ~71:Qingdao Agricultural University, No.700,Changcheng Road, Chengyang, Qingdao, Shandong Province, People's Republic of China ~72: Hui Ni;Wang Jiasheng~

2021/05144 ~ Complete ~54:ORAL PHARMACEUTICAL COMPOSITION WITH A PLANT ALKALOID FOR TREATMENT OF DEPENDENCIES ~71:SOPHARMA AD, 16, ILIENSKO SHOSE STR., 1220 SOFIA, BULGARIA, Bulgaria ~72: ALEKSIEV, Angel Aleksiev;DASKALOV, Veselin Evgeniev~ 33:BG ~31:112910 ~32:12/04/2019

2021/05148 ~ Complete ~54:DATA PROCESSING DEVICE, DATA PROCESSING SYSTEM, AND DATA PROCESSING METHOD ~71:MITSUBISHI ELECTRIC CORPORATION, 7-3, Marunouchi 2-chome Chiyoda-Ku, Tokyo, 1008310, Japan ~72: AKIRA MINEZAWA;KAZUO SUGIMOTO~

2021/05159 ~ Complete ~54:CD3-SPECIFIC BINDING MOLECULES ~71:Immunocore Limited, 101 Park Drive, Milton Park, ABINGDON OX14 4RY, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: CANESTRARO, Martina;DIECKMANN, Nele;HARPER, Stephen;KIRK, Peter Benedict;MULVANEY, Rachel;O'DWYER, Ronan;ROBERTSON, Ian Butler~ 33:GB ~31:1901305.1 ~32:30/01/2019

2021/05136 ~ Complete ~54:CONSTRUCTION OF SINONOVACULA CONSTRICTA LAMARCK FAMILY LINES BY SINGLE MALE AND FEMALE PAIRING ~71:Qingdao Agricultural University, No. 700 Changcheng Road, Chengyang District, Qingdao, Shandong Province, 266109, People's Republic of China ~72: Liu Bo;Wang Chunde;Wang Feng;Zhao Yuming~

2021/05125 ~ Provisional ~54:BLAST HOLE DEVICE ~71:KOEKEMOER, Louis Christiaan, 352 Larsens Road, South Africa ~72: KOEKEMOER, Louis Christiaan~

2021/05132 ~ Complete ~54:TEACHING AID FOR TEACHING MATHEMATICS AND APPLIED MATHEMATICS ~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: CHEN, Qinghua;GUAN, Weijuan;LI, Dequan~

2021/05156 ~ Complete ~54:HETEROCYCLIC COMPOUND, PHARMACEUTICAL COMPOSITION COMPRISING SAME, PREPARATION METHOD THEREFOR, AND USE THEREOF ~71:Sichuan Kelun-Biotech Biopharmaceutical Co. Ltd., No.666, Xinhua Avenue (Section 2), Hai Xia Industrial Park, Wenjiang District, CHENGDU 611138, SICHUAN, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Zhonghui;DUAN, Shuangshuang;HAN, Runfeng;HAN, Xiaojun;JING, Liandong;LI, Guiying;SONG, Hongmei;SUN, Qizheng;TIAN,

Qiang;WANG, Jingyi;XUE, Tongtong~ 33:CN ~31:201910124584.6 ~32:19/02/2019;33:CN  
~31:201910437878.4 ~32:24/05/2019;33:CN ~31:201910932095.3 ~32:29/09/2019

2021/05151 ~ Complete ~54:CONJUGATE COMPRISING LIGAND, SPACER, PEPTIDE LINKER, AND BIOMOLECULE ~71:ASTELLAS PHARMA INC., 5-1, Nihonbashi-Honcho 2-chome Chuo-ku, Tokyo, 103-8411, Japan ~72: HIROKI TOYA;JUNYA ISHIDA;MICHINORI AKAIWA;TOMOAKI YOSHIKAWA;TORU ASANO;YORIKATA SANO;YUKIHITO SUGANO~ 33:JP ~31:2019-000530 ~32:07/01/2019;33:JP ~31:2019-206560 ~32:14/11/2019

2021/05158 ~ Complete ~54:MICROFIBRILLATED CELLULOSE AS RHEOLOGY MODIFIER IN HIGH IONIC STRENGTH AGRICULTURAL FORMULATIONS ~71:AMVAC Hong Kong Limited, 11/F., Unit B, Winbase Centre, 208 Queen's Road Central, SHEUNG WAN, HONG KONG, CHINA (P.R.C.), People's Republic of China ~72: LOPEZ, Humberto Benito;MARTINEZ, Jonny;ZENI, Lisiane~ 33:US ~31:62/797,124 ~32:25/01/2019;33:US ~31:62/896,762 ~32:06/09/2019;33:US ~31:62/916,764 ~32:17/10/2019

2021/05163 ~ Provisional ~54:SHAGGY WET SHAVING DEVICE ~71:ANTHONY EDWARD EVANS, 503 The Belmont Holmfirth Rd, South Africa ~72: ANTHONY EDWARD EVANS~

2021/05155 ~ Complete ~54:SOYBEAN TRANSGENIC EVENT IND-ØØ41Ø-5 ~71:Bioceres LLC, 1209 Orange Street, WILMINGTON 19801, DE, USA, United States of America ~72: CHIOZZA, Mariana;DEZAR, Carlos;MIRANDA, Patricia;VAZQUEZ, Martin;WATSON, Geronimo~

2021/05157 ~ Complete ~54:PCSK9 INHIBITORS AND METHODS OF USE THEREOF ~71:AstraZeneca AB, S&#214;DERT&#196;LJE 151 85, SWEDEN, Sweden ~72: DANIELS, Doug;HUBBARD, Brian K.;KAUSHIK, Virendar;SERRANO-WU, Michael H.~ 33:US ~31:62/794,239 ~32:18/01/2019

2021/05150 ~ Complete ~54:CONJUGATE COMPRISING LIGAND AND CEACAM5 ANTIBODY FAB FRAGMENT ~71:ASTELLAS PHARMA INC., 5-1, Nihonbashi-Honcho 2-chome Chuo-ku, Tokyo, 103-8411, Japan ~72: HIROKI SHIRAI;HIROKI TOYA;HITOSHI DOIHARA;JUNYA ISHIDA;KAZUNORI HIRAYAMA;MICHINORI AKAIWA;NOBUYUKI SHIRAISHI;TOMOAKI YOSHIKAWA;TORU ASANO;YORIKATA SANO~ 33:JP ~31:2019-000530 ~32:07/01/2019;33:JP ~31:2019-206560 ~32:14/11/2019

2021/05137 ~ Complete ~54:PROCESSING SYSTEM FOR TREATING ALDEHYDE-CONTAINING WASTE ACID BY UTILIZING MANGANESE DIOXIDE AND A TREATMENT METHOD THEREOF ~71:Zaozhuang University, 1 Bei&#39;an Road, Shizhong District, Zaozhuang City, Shandong Province, People's Republic of China ~72: Chen Hongkai;Duan Yuhui;Jiao Pengpeng;Li Yinxuan;Li Zhongdong~

2021/05140 ~ Complete ~54:SEALING SYSTEM FOR A TRACK ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: WEISBRUCH, Eric Bernard~ 33:US ~31:16/254,769 ~32:23/01/2019

2021/05143 ~ Complete ~54:PHARMACEUTICAL PREPARATION FOR TREATING HEPATITIS B, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:GRAND THERAVAC LIFE SCIENCE (NANJING) CO., LTD., BUILDING 30, NO. 699-18, XUANWU AVENUE, XUANWU DISTRICT, NANJING, JIANGSU 210042, CHINA, People's Republic of China ~72: CHEN, Xiaoxiao;GE, Jun;GU, Yue;HUANG, Hongying;LI, Jianqiang;REN, Sulin;SUN, Honglin;SUN, Jiaojiao;ZHOU, Tong;ZHOU, Xue~ 33:CN ~31:201811580470.4 ~32:24/12/2018

2021/05138 ~ Complete ~54:METHODS FOR TREATING SYMPTOMS AND DISORDERS ASSOCIATED WITH LYSOSOMAL STORAGE DISEASES ~71:GENZYME CORPORATION, 50 Binney Street, Cambridge, MA, United States of America ~72: CRAWFORD, Nigel, Patrick, Somerville;FISCHER, Tanya, Zaremba~ 33:US



~31:62/800,996 ~32:04/02/2019;33:US ~31:62/851,433 ~32:22/05/2019;33:US ~31:62/894,167  
~32:30/08/2019;33:US ~31:62/937,618 ~32:19/11/2019;33:US ~31:62/962,647 ~32:17/01/2020

2021/05131 ~ Complete ~54:MODEL TARGET COORDINATE FEEDBACK SYSTEM BASED ON MATLAB  
~71:Anhui University of Science and Technology, 168 Taifeng Street, People's Republic of China ~72: BAO,  
Ming;GONG, Pingshun;HONG, Yan~

2021/05142 ~ Complete ~54:PROCESS FOR PRODUCING A GASEOUS ACTIVE INGREDIENT OR A  
GASEOUS ACTIVE INGREDIENT MIXTURE, KIT FOR USE THEREIN AND GASEOUS COMPOSITION  
~71: SCHMITT, Fritz, 46A avenue John F. Kennedy, Luxembourg ~72: SCHMITT, Fritz~ 33:DE ~31:10 2019 000  
016.1 ~32:07/01/2019;33:DE ~31:10 2019 000 018.8 ~32:07/01/2019;33:DE ~31:10 2019 000 199.0  
~32:15/01/2019

2021/05126 ~ Provisional ~54:STABILIZATION DEVICE ~71:LAING, Gert Christoffel, Glen Alpine 61, Welcome  
Glen, South Africa ~72: LAING, Gert Christoffel~

2021/05130 ~ Complete ~54:PROBIOTIC COMPOUND-BASED ANTIBIOTIC-FREE GRANULAR PIG FEED  
AND PREPARATION METHOD THEREOF ~71:Xuzhou Institute of Technology, No. 1 Fuchun Road, Yunlong  
District, Xuzhou City, Jiangsu, People's Republic of China ~72: Sun Ling;Zhang Hui~

2021/05146 ~ Complete ~54:DEVICE AND METHOD FOR EXTRACTING AND ASPIRATING ACTIVE  
SUBSTANCES, ESPECIALLY FROM THE CANNABIS PLANT ~71: SCHMITT, Fritz, 46A avenue John F.  
Kennedy, Luxembourg ~72: SCHMITT, Fritz~ 33:DE ~31:10 2019 000 016.1 ~32:07/01/2019;33:DE ~31:10  
2019 000 018.8 ~32:07/01/2019;33:DE ~31:10 2019 000 199.0 ~32:15/01/2019

2021/05149 ~ Complete ~54:PATIENT-SPECIFIC MODELING OF HEMODYNAMIC PARAMETERS IN  
CORONARY ARTERIES ~71:LIFEFLOW SP. Z.O.O., Aleja Kasztanowa 3a-5, 53-125 Wroclaw, Poland ~72:  
ANDRZEJ KOSIOR;KRYSPIN MIROTA;WOJCIECH TARNAWSKI~

2021/05153 ~ Complete ~54:COMPOSITIONS AND METHODS FOR STIMULATING NATURAL KILLER CELLS  
~71:UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION, INC., 12201 Research Parkway Suite  
501, Orlando, Florida, 32826, United States of America ~72: ALICJA COPIK;GRIFFITH PARKS;JEREMIAH  
OYER~ 33:US ~31:62/796,575 ~32:24/01/2019

2021/05162 ~ Complete ~54:SYSTEM AND METHOD FOR THE VERIFICATION OF MEDICATION  
~71:WOODYEAR, John, 507 North Main Street, United States of America ~72: WOODYEAR, John~ 33:US  
~31:16/233,173 ~32:27/12/2018

- APPLIED ON 2021/07/22 -

2021/05173 ~ Complete ~54:A CONNECTION DEVICE ~71:SWICK MINING SERVICES LTD, 64 Great Eastern  
Hwy, South Guildford, Western Australia, 6055, Australia ~72: PAUL ATTIWELL~ 33:AU ~31:2015904625  
~32:10/11/2015

2021/05182 ~ Complete ~54:UNIVERSAL CERTIFIED AND QUALIFIED CONTRACTING METHOD  
~71:LLEIDANETWORKS SERVEIS TELEM&#192;TICS, S.A., Parc Cientific I Tecnol&#242;gic Agoalimentari de  
Lleida, Edifici H1 2a planta B, Spain ~72: SAPENA SOLER, Francisco Jose~ 33:WO ~31:PCT/ES2018/070844  
~32:31/12/2018

2021/05190 ~ Complete ~54:METHODS FOR MAKING MIXED ALLERGEN COMPOSITIONS ~71:Before  
Brands, Inc., 1160 Chestnut Street, MENLO PARK 94025, CA, USA, United States of America ~72: CORNYN,  
Christopher;WEIHE, Olivia M.~ 33:US ~31:62/795,877 ~32:23/01/2019;33:US ~31:62/865,473 ~32:24/06/2019

2021/05202 ~ Complete ~54:OIL MIST RECOVERY, SEPARATION AND PURIFICATION DEVICE FOR MINIMUM QUANTITY LUBRICANT GRINDING PROCESS ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;SHANGHAI JINZHAO ENERGY SAVING TECHNOLOGY CO., LTD., Room 414, Building 2, No. 1006, Jinshajiang Road, Putuo District, People's Republic of China ~72: BAI, Xiufang;CAO, Huajun;DONG, Lan;DUAN, Zhenjing;GAO, Teng;HOU, Yali;JIA, Dongzhou;LI, Changhe;LI, Runze;WU, Wentao;XU, Xuefeng;YANG, Min;ZHANG, Naiqing;ZHANG, Yanbin~ 33:CN ~31:201910100369.2 ~32:31/01/2019

2021/05205 ~ Complete ~54:MULTI-STATION SELF-POSITIONING FLOATING CLAMPING AND WORKPIECE AUTOMATIC FLIP INTELLIGENT FIXTURE SYSTEM ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No. 333, LianTang Road, Binhai Cixi Economic Development Zone, Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CUI, Xin;GAO, Teng;HONG, Huaping;HOU, Yali;LI, Changhe;LI, Haogang;LI, Runze;LIU, Mingzheng;LUO, Liang;TANG, Lizhi;XU, Haizhou;YANG, Min;YIN, Shuo;ZHANG, Yanbin~ 33:CN ~31:201911284224.9 ~32:13/12/2019

2021/05172 ~ Complete ~54:AN ACOUSTIC EMISSION TESTING DEVICE FOR ROCK MECHANICS DIRECT SHEAR PROCESS ~71:Henan University Of Urban Construction, Longxiang Avenue, Xincheng Dist., Pingdingshan, Henan, People's Republic of China ~72: Bai Zhe;Guo Lulu;Li Shuai;Luo Congshuang;Zhang Shuo;Zheng Chao~

2021/05204 ~ Complete ~54:MULTI-STATION TURNING TOOL BIT MILLING FIXTURE SYSTEM CAPABLE OF INTELLIGENTLY DETECTING CLAMPING FORCE ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No.333, LianTang Road, Binhai Cixi Economic Development Zone, Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CUI, Xin;GAO, Teng;HONG, Huaping;HOU, Yali;LI, Changhe;LI, Haogang;LI, Runze;LIU, Mingzheng;LU, Bingheng;LUO, Liang;TANG, Lizhi;XU, Haizhou;YANG, Min;YIN, Shuo;ZHANG, Yanbin~ 33:CN ~31:201911282118.7 ~32:13/12/2019

2021/05166 ~ Provisional ~54:ONLINE HIGH SCHOOL ~71:USANI PTY LTD, 14 Roderick Road, Noordhoek, South Africa;Xolisa Gedi, Makhunga street, Mandela Park, South Africa ~72: Xolisa Gedi~

2021/05169 ~ Complete ~54:HYBRID APPLE SEED "1ST-CONTROL 2ND-CATALYSIS 3RD-CULTURE" THREE-STEP STRATIFICATION CULTURE METHOD ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700, Changcheng Road, Chengyang District, Qingdao City, Shandong, 266109, People's Republic of China ~72: BAI, Suhua;DAI, Hongyi;Dong, Chao;GUO, Shaoxia;HOU, Hongmin;JIANG, Shenghui;SUN, Xiaohong;SUN, Xin;XU, Jihua;ZHANG, Yugang;ZHU, Jun~

2021/05171 ~ Complete ~54:SEARCH REGION FOR MOTION VECTOR REFINEMENT ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG PROVINCE, CHINA (P.R.C.), People's Republic of China ~72: ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;ZHAO, Zhijie~

2021/05183 ~ Complete ~54:BETA-LACTAM COMPOUNDS OR SALTS THEREOF FOR USE IN LONG-ACTING PREVENTION OR TREATMENT OF A GLUCOSE METABOLISM DISORDER ~71:GLYCOLYSIS BIOMED CO., LTD, Rm. 2, 9F., No. 54, Songjiang Rd., People's Republic of China ~72: HSU, Cheng Hsien;HSU, Jyh Shing;HUANG, Ya Chien;HUANG, Yen Chun;KAO, Yu Chi;LEE, Feng Lin;LIAO, Hui Fang;LIN, Lung Jr;LIU, Yu Wen;LO, Chun Tsung~ 33:US ~31:62/795,917 ~32:23/01/2019

2021/05186 ~ Complete ~54:COMPOSITIONS FOR TREATING CITRUS DISEASE AND PROMOTING YIELD INCREASE IN ROW CROPS ~71:Spogen Biotech Inc., 1685 Galt Industrial Boulevard, ST. LOUIS 63132, MO,

USA, United States of America ~72: LESLIE, Michelle;THOMPSON, Brian~ 33:US ~31:62/796,010  
~32:23/01/2019

2021/05194 ~ Complete ~54:METHOD FOR PRODUCING LOW-CARBON FERROMANGANESE ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan;MIZUSHIMA FERROALLOY CO., LTD., 1, Mizushima Kawasakidori 1-chome, Kurashiki-shi, Okayama, 7128513, Japan ~72: IPPEI HIGUCHI;NAOKI KIKUCHI;RYO KAWABATA;SHINGO SATO;TOSHIO SHIOTA;YUSUKE FUJII~ 33:JP ~31:2019-010312 ~32:24/01/2019

2021/05196 ~ Complete ~54:ENDURINGLY ANTIVIRAL AND ANTIBACTERIAL NON-WOVEN FABRIC, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:NANTONG UNIVERSITY, No. 9, Seyuan Road, Chongchuan District Nantong, Jiangsu, 226019, People's Republic of China ~72: CHAOWEI LI;DAWEI LI;WEI ZHANG;YIJUN FU;YU ZHANG;YUMIN YANG~ 33:CN ~31:2020102232009 ~32:26/03/2020

2021/05209 ~ Complete ~54:SAME-CAVITY INTEGRATED VERTICAL HIGH-SPEED MULTISTAGE SUPERFINE PULVERIZING DEVICE AND METHOD FOR WALNUT SHELLS ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No. 403, Nanchang Road Urumqi, People's Republic of China ~72: CHE, Ji;CHEN, Yifei;GAO, Lianxing;HOU, Yali;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;TURDI, Tuluhon;WANG, Xiaoming;YANG, Huimin;ZHANG, Xiaowei;ZHANG, Yanbin;ZHAO, Huayang~ 33:CN ~31:202010286421.0 ~32:13/04/2020

2021/05168 ~ Provisional ~54:CELL REVIVE ANTI-OXIDANT FORMULATION ~71:Vischal Dhurumraj, 3 Coull drive, La Mercy, South Africa ~72: Vischal Dhurumraj~

2021/05170 ~ Complete ~54:METHOD, DEVICE AND COMPUTER EQUIPMENT FOR SCREENING CHARACTERISTIC WAVELENGTH OF FLUORESCENCE SPECTRUM, AS WELL AS READABLE STORAGE MEDIUM ~71:Anhui University of Science and Technology, No.168 Taifeng Street, Huainan, Anhui, 232001, People's Republic of China ~72: Bian Kai;Hu Feng;Lai Wenhao;Luo Zhouyu;Qian Yali;Si Mengting;Yan Pengcheng;Zhou Mengran;Zhu Ziwei~ 33:CN ~31:202110702318.4 ~32:21/06/2021

2021/05175 ~ Complete ~54:CRYSTALLINE FORMS OF A BRUTON'S TYROSINE KINASE INHIBITOR ~71:PHARMACYCLICS LLC, 995 East Arques Avenue, United States of America ~72: GOLDMAN, Erick;PURRO, Norbert;SMYTH, Mark;WIRTH, David, D.~ 33:US ~31:61/655,381 ~32:04/06/2012

2021/05189 ~ Complete ~54:METHODS OF CONTROLLING OR PREVENTING INFESTATION OF SOYBEAN PLANTS BY PHYTOPATHOGENIC MICROORGANISMS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: GABERTHUEEL, Matthias~ 33:EP ~31:19153247.2 ~32:23/01/2019

2021/05195 ~ Complete ~54:SIGNALING OF IN-LOOP RESHAPING INFORMATION USING PARAMETER SETS ~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/CN2019/074437 ~32:01/02/2019

2021/05203 ~ Complete ~54:CAM ROLLER TYPE HORIZONTAL EXTRUSION CRACKING SYSTEM FOR WALNUTS ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;XINJIANG JIANG NING LIGHT

INDUSTRIAL MACHINERY ENGINEERING TECHNOLOGY CO., LTD., Room 301, 3rd Floor, No. 303, Yinxing Street Urumqi, People's Republic of China ~72: CHE, Ji;FENG, Yiping;FENG, Yitian;GAO, Teng;HOU, Yali;JIA, Zhenming;LI, Changhe;LI, Runze;LIU, Mingzheng;MIAO, Guangzhen;WANG, Huaiyu;WANG, Rong;WANG, Xiaoming;WANG, Yucheng;ZHANG, Yanbin;ZHAO, Lei~ 33:CN ~31:201911168497.7 ~32:25/11/2019

2021/05165 ~ Provisional ~54:WIRE MODULAR TOY VEHICLE ~71:Lehlogonolo Kgabela Matsapola, 17 sable street, South Africa ~72: Lehlogonolo Kgabela Matsapola~

2021/05180 ~ Complete ~54:2H-INDAZOLE DERIVATIVES AS THERAPEUTIC AGENTS FOR BRAIN CANCERS AND BRAIN METASTASES ~71:BETA PHARMA, INC., 1000 N. West Street, Suite 1200, Wilmington, United States of America ~72: COSTANZO, Michael, John;GRECO, Michael, Nicholas;PENG, Jirong;ZHANG, Don~ 33:US ~31:62/798,220 ~32:29/01/2019

2021/05197 ~ Complete ~54:DEUTERATED ELAGOLIX-LIKE COMPOSITIONS AND METHODS ~71:LUPIN INC., 111 S. Calvert Street, Harborplace Tower, 21st Floor Baltimore, Maryland, 21202, United States of America ~72: JAMES GAREGNANI;NICHOLAS HART;RICHARD HOLL~ 33:US ~31:62/792,822 ~32:15/01/2019

2021/05179 ~ Complete ~54:A MODULAR PRODUCE CRATE ~71:ANECK-HAHN, Richard, c/- Patentec Patent Attorneys, L11, 65 York Street, Australia;BLASKI, Krzysztof, c/- Patentec Patent Attorneys, L11, 65 York Street, Australia ~72: ANECK-HAHN, Richard;BLASKI, Krzysztof~ 33:AU ~31:2019903879 ~32:15/10/2019

2021/05178 ~ Complete ~54:DOME COVER ~71:IBAU HAMBURG INGENIEURGESELLSCHAFT INDUSTRIEBAU MBH, R&#246;dingsmarkt 35, Germany ~72: Oliver HARLOFF~ 33:EP ~31:19155517.6 ~32:05/02/2019

2021/05184 ~ Complete ~54:BRANCHING OR TERMINATION OPTICAL BOX FOR AN OPTICAL CABLE IN AN OPTICAL-FIBER NETWORK ~71:Furukawa Electric LatAm S.A., Rua Hasdrubal Bellegard, 820 - Cidade Industrial, CURITIBA 81460-120, PR, BRAZIL, Brazil ~72: STANCYK, Anderson Marcelo~ 33:BR ~31:10 2018 077418 2 ~32:28/12/2018

2021/05174 ~ Complete ~54:CRYSTALLINE FORMS OF A BRUTON'S TYROSINE KINASE INHIBITOR ~71:PHARMACYCLICS LLC, 995 East Arques Avenue, United States of America ~72: GOLDMAN, Erick;PURRO, Norbert;SMYTH, Mark;WIRTH, David, D.~ 33:US ~31:61/655,381 ~32:04/06/2012

2021/05176 ~ Complete ~54:METHOD OF CHARACTERIZATION OF VISIBLE AND/OR SUB-VISIBLE PARTICLES IN BIOLOGICS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: XU, Xiaobin~ 33:US ~31:62/798,750 ~32:30/01/2019

2021/05191 ~ Complete ~54:METHODS OF CONTROLLING OR PREVENTING INFESTATION OF CORN PLANTS BY PHYTOPATHOGENIC MICROORGANISMS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: GABERTHUEEL, Matthias~ 33:EP ~31:19153280.3 ~32:23/01/2019

2021/05199 ~ Complete ~54:METHOD OF CONTROLLING A DRILLING PROCESS OF A PERCUSSION DRILLING MACHINE ~71:EPIROC ROCK DRILLS AKTIEBOLAG, 701 91 &#214;rebro, Sweden ~72: KENNETH WEDDFELT;MAHDI SAADATI;MATTIAS G&#214;THBERG;SAMUEL ENBLOM~ 33:SE ~31:1950389-5 ~32:29/03/2019

2021/05167 ~ Provisional ~54:USE OF IVERMECTIN FOR VASCULAR DISEASE ~71:Edward Mathews, 29 Nicklaus Str, South Africa ~72: Edward Mathews~

2021/05185 ~ Complete ~54:DEVICE FOR COATING AGGREGATES, METHOD AND USES ~71:COLAS, 1 rue du Colonel Pierre Avia, PARIS 75015, FRANCE, France ~72: LOUBIER, Martin;STOLK, Frank~ 33:FR ~31:1900165 ~32:08/01/2019

2021/05187 ~ Complete ~54:HALF-LIFE EXTENDED IMMTAC BINDING CD3 AND A HLA-A\*02 RESTRICTED PEPTIDE ~71:Immunocore Limited, 101 Park Drive, Milton Park, ABINGDON OX14 4RY, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: CONROY, Paul;GEORGES, Amandine;HEARTY, Stephen;HODGSON, Emma;JOHNSON, Andrew David;LISSIN, Nikolai;MAK, Lok Hang;UYE, Udofoyo~ 33:GB ~31:1901306.9 ~32:30/01/2019

2021/05206 ~ Complete ~54:ALUMINA CERAMIC INTEGRATED HOT PRESS MOLDING MACHINE AND WORKING METHOD THEREOF ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;SHENYANG HONGYANG PRECISION CERAMICS CO., LTD., DaWa Village, QianJin Street, DaDong District Shenyang,, People's Republic of China ~72: CAO, Huajun;CUI, Xin;GAO, Teng;HOU, Yali;LI, Changhe;LU, Bingheng;MA, Xiangyang;MA, Xiaohong;SHI, Mingcun;WANG, Xiaoming;WANG, Zhen;WU, Qidong;YANG, Min;ZHAI, Han;ZHANG, Naiqing;ZHANG, Yanbin~ 33:CN ~31:201911380318.6 ~32:27/12/2019

2021/05208 ~ Complete ~54:POWDER DRY-PRESSING MOLDING DEVICE AND METHOD ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;SHENYANG HONGYANG PRECISION CERAMICS CO., LTD., Dawa Village, Qianjin Street, Dadong District, Shenyang, People's Republic of China ~72: CAO, Huajun;CUI, Xin;GAO, Teng;HOU, Yali;LI, Changhe;LU, Bingheng;MA, Xiangyang;MA, Xiaohong;SHI, Mingcun;WANG, Xiaoming;WANG, Zhen;WU, Qidong;XING, Baoda;YANG, Min;ZHAI, Han;ZHANG, Naiqing;ZHANG, Yanbin~ 33:CN ~31:202010099070.2 ~32:18/02/2020

2021/05181 ~ Complete ~54:MRNA VACCINE ~71:ETHERNA IMMUNOTHERAPIES NV, Galileilaan 19, Belgium ~72: BIALKOWSKI, Lukasz;DE KOKER, Stefaan~ 33:EP ~31:19150349.9 ~32:04/01/2019;33:EP ~31:19163486.4 ~32:18/03/2019

2021/05188 ~ Complete ~54:BALLISTIC-RESISTANT ARTICLE BASED ON FILMS PROVIDED WITH MATRIX ~71:Teijin Aramid B.V., Velperweg 76, ARNHEM 6824 BM, THE NETHERLANDS, Netherlands ~72: CALIS, Ruben;WILBERS, Dennis~ 33:EP ~31:19153440.3 ~32:24/01/2019

2021/05201 ~ Complete ~54:SLURRY SCRAPING MECHANISM AND APPLYING AND SCRAPING DEVICE USED IN SG ABRASIVE PRODUCTION PROCESS ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CUI, Xin;HOU, Yali;HUANG, Baoteng;LI, Changhe;LIU, Mingzheng;LU, Bingheng;WANG, Zhen;WU, Qidong;YANG, Min;ZHAI, Han;ZHANG, Yanbin~ 33:CN ~31:201910791204.4 ~32:26/08/2019

2021/05207 ~ Complete ~54:FLEXIBLE SENSOR DETECTION SYSTEM FOR MEDICAL CARE AND HEALTH ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No. 333, LianTang Road, Binhai Cixi Economic Development Zone, Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CHEN, Shuai;CUI, Xin;GAO, Teng;HOU, Yali;JIA, Dongzhou;LI, Changhe;LI, Runze;LIU, Mingzheng;LU, Bingheng;LUO, Liang;MA, Wuxing;WU, Xifeng;YANG, Min;ZHANG, Yanbin~ 33:CN ~31:201911413320.9 ~32:31/12/2019

2021/05193 ~ Complete ~54:BOOST PUMP ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KRUGER, Michiel Jacobus~ 33:ZA ~31:2019/00727 ~32:04/02/2019



2021/05200 ~ Complete ~54:MICRODROPLET MANIPULATION METHOD ~71:LIGHTCAST DISCOVERY LTD, Broers Building, 21-22 J.J. Thomson Avenue, Cambridge, Cambridgeshire, CB3 0FA, United Kingdom ~72: BARNABY BALMFORTH;GARETH PODD;JASMIN CONTERIO;KERR FRANCIS JOHNSON;MACIEJ SOSNA;RICHARD INGHAM;TOM ISAAC~ 33:EP ~31:19156182.8 ~32:08/02/2019

2021/05177 ~ Complete ~54:NATIVE MICROFLUIDIC CE-MS ANALYSIS OF ANTIBODY CHARGE HETEROGENEITY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: LI, Ning;QIU, Haibo;WANG, Hongxia~ 33:US ~31:62/799,331 ~32:31/01/2019;33:US ~31:62/851,365 ~32:22/05/2019

2021/05192 ~ Complete ~54:THERAPEUTIC ANTIBODY FORMULATION ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: CORVARI, Vincent John;PISUPATI, Karthik;SHI, Galen Huaiqiu~ 33:US ~31:62/807,006 ~32:18/02/2019;33:US ~31:62/880,846 ~32:31/07/2019;33:US ~31:62/947,198 ~32:12/12/2019

2021/05198 ~ Complete ~54:AN EXTRUDED SOAP BAR WITH HIGH WATER CONTENT ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AJIT MANOHAR AGARKHED;AMALENDU BANGAL;SHAIENDRA PRATAP;SUDIPTA GHOSH DASTIDAR;SWAPNIL RAVIKANT HEGISHTHE;YURIY KONSTANTINOVICH YAROVVOY~ 33:EP ~31:19157897.0 ~32:19/02/2019

- APPLIED ON 2021/07/23 -

2021/05244 ~ Provisional ~54:MOBILE BAKERIES ~71:Stapleton Bosealetse, 5 Botes Avenue, Olifantsfontein West., South Africa ~72: Stapleton Bosealetse~

2021/05241 ~ Complete ~54:COOLING SEALED PACKAGES AFTER HOT FILLING AND SEALING ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: BRIAN J BROZELL;BRIAN J CHISHOLM~ 33:US ~31:16/269,342 ~32:06/02/2019

2021/05219 ~ Complete ~54:MANHOLE ACCESSORY ~71:Kgothalo Projects CC T/A Waterfix Services, 66 Nyala Street, WELKOM 9460, SOUTH AFRICA, South Africa ~72: NGANGA, Christopher Kimaru~ 33:ZA ~31:2020/07425 ~32:30/11/2020

2021/05224 ~ Complete ~54:THERAPEUTIC RNA FOR ADVANCED STAGE SOLID TUMOR CANCERS ~71:SANOFI, 54 rue La Boétie, France ~72: ACQUAVELLA, Nicolas;BERNARDO, Marie;GIESEKE, Friederike;HSU, Karl;JABULOWSKY, Robert;JIRAKOVA TRNKOVA, Zuzana;MASCIARI, Serena;SAHIN, Ugur;WAGENAAR, Timothy, R.;YORUK, Semra~ 33:US ~31:62/794,889 ~32:21/01/2019;33:US ~31:62/926,384 ~32:25/10/2019;33:EP ~31:19306461.5 ~32:12/11/2019

2021/05238 ~ Complete ~54:BUFFER MANAGEMENT FOR INTRA BLOCK COPY IN VIDEO CODING ~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/CN2019/074598 ~32:02/02/2019

2021/05211 ~ Provisional ~54:FUMIGANT COMPOSITION ~71:AfriFume (Pty) Ltd, 5B Bird Street, South Africa ~72: Teunis NIEUWOUDT~

2021/05240 ~ Complete ~54:SEAL INTEGRITY INSPECTION ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: BRIAN J BROZELL;BRIAN J CHISHOLM~ 33:US ~31:16/269,351 ~32:06/02/2019

2021/05222 ~ Complete ~54:PROCESSES AND SYSTEMS FOR REFORMING OF METHANE AND LIGHT HYDROCARBONS TO LIQUID HYDROCARBON FUELS ~71:GAS TECHNOLOGY INSTITUTE, 1700 S. Mount Prospect Rd. Des Plaines, Illinois, 60018, United States of America ~72: JIM WANGEROW;MARTIN B LINCK;PEDRO ORTIZ-TORAL;TERRY L MARKER~

2021/05217 ~ Complete ~54:ELECTRIC SUGARCANE HARVESTER ~71:Nanjing Agricultural University, #1 Wei-Gang, Xuanwu District, Nanjing, Jiangsu, People's Republic of China ~72: Gao Huisong;Xue Jinlin~

2021/05231 ~ Complete ~54:PREDICTIVE SEED SCRIPTING FOR SOYBEANS ~71:The Climate Corporation, 201 Third Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: BHAGAT, Jigyasa;HELLAND, Nicholas;JACOBS, Morrison;MACISAAC, Susan A.;ROCK, David;SOOD, Shilpa;TRAPP, Allan~ 33:US ~31:62/784,625 ~32:24/12/2018

2021/05212 ~ Provisional ~54:APP-BASED FIELD WORKER MANAGEMENT BIOMETRIC SYSTEM ~71:Legal, Environmental, and Associated Development CC, 596b Musgrave Road, South Africa ~72: STEAD, Wayne Rowlands;TREBBLE, Grant William~

2021/05223 ~ Complete ~54:A SYSTEM FOR, AND METHOD OF INSTALLING ELECTRICAL WIRING ~71:FULLER, PATRICK DYLAN, 3 Louw Wepener, South Africa ~72: FULLER, PATRICK DYLAN~

2021/05234 ~ Complete ~54:AGRICULTURAL ADJUVANT COMPRISING MICROFIBRILLATED CELLULOSE ~71:AMVAC Hong Kong Limited, 11/F., Unit B, Winbase Centre, 208 Queen's Road Central, SHEUNG WAN, HONG KONG, CHINA (P.R.C.), People's Republic of China ~72: LOPEZ, Humberto Benito;MARTINEZ, Jonny;ZENI, Lisiane~ 33:US ~31:62/797,124 ~32:25/01/2019;33:US ~31:62/896,762 ~32:06/09/2019;33:US ~31:62/916,764 ~32:17/10/2019

2021/05227 ~ Complete ~54:METHODS AND COMPOSITIONS FOR GENERATING DOMINANT SHORT STATURE ALLELES USING GENOME EDITING ~71:MONSANTO TECHNOLOGY LLC, 800 North Lindbergh Blvd, St Louis, United States of America ~72: MANJUNATH, Sivalinganna;RYMARQUIS, Linda A;SLEWINSKI, Thomas, L.~ 33:US ~31:62/854,142 ~32:29/05/2019;33:US ~31:62/886,732 ~32:14/08/2019

2021/05233 ~ Complete ~54:PESTICIDE FORMULATION COMPRISING MFC AS RHEOLOGY MODIFIER ~71:AMVAC Hong Kong Limited, 11/F., Unit B, Winbase Centre, 208 Queen's Road Central, Sheung Wan, HONG KONG, CHINA (P.R.C.), People's Republic of China ~72: LOPEZ, Humberto Benito;MARTINEZ, Jonny;ZENI, Lisiane~ 33:US ~31:62/797,124 ~32:25/01/2019;33:US ~31:62/896,762 ~32:06/09/2019;33:US ~31:62/916,764 ~32:17/10/2019

2021/05235 ~ Complete ~54:CONSTITUTIVELY ACTIVE CHIMERIC CYTOKINE RECEPTORS ~71:Allogene Therapeutics, Inc., 210 E. Grand Avenue, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: LIN, Regina Junhui;PANOWSKI, Siler;SASU, Barbra Johnson;VAN BLARCOM, Thomas John~ 33:US ~31:62/812,911 ~32:01/03/2019;33:US ~31:62/980,823 ~32:24/02/2020

2021/05243 ~ Complete ~54:CHILD-RESISTANT PACKAGING ~71:IDEEWISS AG, B&#246;sch 69, Switzerland ~72: W&#214;TZER, Philipp~ 33:EP ~31:19156838.5 ~32:13/02/2019

2021/05220 ~ Complete ~54:CELL PENETRATING ANTIBODIES ~71:CITY OF HOPE, 1500 E. Duarte Road, Duarte, California, 91010-3000, United States of America ~72: ANDREAS HERRMANN;HUA YU~ 33:US ~31:62/104,653 ~32:16/01/2015

2021/05242 ~ Complete ~54:KEY COMBINATION ELEMENT IN KEY BLANK AND KEY ~71:MUL-T-LOCK TECHNOLOGIES LTD., PO Box 637, Yavne, 8110400, Israel ~72: EFFI BEN-AHARON;EYAL MORSKY;IZHAK KAISER~ 33:IL ~31:264518 ~32:29/01/2019

2021/05215 ~ Complete ~54:OKRA POLYSACCHARIDE EXTRACT AND ITS PREPARATION METHOD AND APPLICATION ~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;Li Chao;Liu Enqi;Miao Xuyan~

2021/05232 ~ Complete ~54:APPARATUS AND METHOD FOR UNIFORMLY INTRODUCING AIR INTO A FLUIDIZED BED SEPARATOR ~71:FLSmidth A/S, Vigerslev Allé 233, 77, VALBY DK-2500, DENMARK, Denmark ~72: BARNARD, Ludi;CHRISTODOULOU, Lance;SADLER, Byron;SPINK, Andrew~ 33:US ~31:62/796,790 ~32:25/01/2019

2021/05216 ~ Complete ~54:FABRICS FOR AUTOCATALYTIC SEWAGE TREATMENT ~71:Hengyang Normal University, No.165 Huangbai Road, Yanfeng District, Hengyang City, Hunan Province, 421008, People's Republic of China ~72: Tang Siping;Tang Wenqing;Wang Shuzhan;Wang Zefen;Yi Lu;Yi Nengzhong;Zeng Rongying~

2021/05236 ~ Complete ~54:SINGLE-DOSE PACKAGED CLOTRIMAZOLE LIQUID COMPOSITION ~71:LABORATORIOS SALVAT, S.A., C.Gall, 30-36 Esplugues de Llobregat, Spain ~72: DELGADO GA&#209;&#193;N, Mar&#237;a Isabel;SANAGUST&#205;N AQUILU&#201;, Javier;T&#201;LLEZ MOLINA, Adolfo;TERRAZ MENDOZA, Maria Mar~ 33:EP ~31:19382120.4 ~32:19/02/2019

2021/05218 ~ Complete ~54:RESIN-GROUTED ROCK BOLT ASSEMBLY WITH AN ADAPTED SEALING BUSH ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: ABREU, RUAL;CAWOOD, MARTIN;CROMPTON, BRENDAN ROBERT;PASTORINO, PAOLO ETTORE~

2021/05221 ~ Complete ~54:NOBLE METAL CATALYSTS AND PROCESSES FOR REFORMING OF METHANE AND OTHER HYDROCARBONS ~71:GAS TECHNOLOGY INSTITUTE, 1700 S. Mount Prospect Rd. Des Plaines, Illinois, 60018, United States of America ~72: JIM WANGEROW;MARTIN B LINCK;PEDRO ORTIZ-TORAL;TERRY L MARKER~

2021/05228 ~ Complete ~54:METHODS AND COMPOSITIONS FOR GENERATING DOMINANT SHORT STATURE ALLELES USING GENOME EDITING ~71:MONSANTO TECHNOLOGY LLC, 800 North Lindbergh Boulevard, St. Louis, Missouri, United States of America ~72: MANJUNATH, Sivalinganna;RYMARQUIS, Linda A;SLEWINSKI, Thomas, L.~ 33:US ~31:62/854,142 ~32:29/05/2019;33:US ~31:62/886,726 ~32:14/08/2019

2021/05239 ~ Complete ~54:CONSTRUCTION METHOD FOR CREATING A RESTRICTED ACCESS SWIMMING LAGOON WITH BEACHES AT A RETAIL SITE ~71:CRYSTAL LAGOONS TECHNOLOGIES, INC., 2 Alhambra Plaza, Penthouse 1B, Coral Gables, Florida, 33134, United States of America ~72: FERNANDO BENJAMIN FISCHMANN~ 33:US ~31:62/785,086 ~32:26/12/2018;33:US ~31:16/538,273 ~32:12/08/2019

2021/05226 ~ Complete ~54:ANTI-IL-6 RECEPTOR ANTIBODY FOR TREATING JUVENILE IDIOPATHIC ARTHRITIS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America;SANOFI BIOTECHNOLOGY, 54, rue La Boetie, France ~72: BARET-CORMEL, Lydie;FIORE, Stefano;MOMTAHEN, Tanya;VAN ADELSBERG, Janet~ 33:US ~31:62/799,698 ~32:31/01/2019;33:US ~31:62/851,474 ~32:22/05/2019;33:US ~31:62/935,395 ~32:14/11/2019;33:EP ~31:19306553.9 ~32:03/12/2019

2021/05229 ~ Complete ~54:AMINO ACID DERIVATIVES FOR THE TREATMENT OF INFLAMMATORY DISEASES ~71:THE ROSKAMP INSTITUTE, 2040 Whitfield Avenue, Sarasota, FL, United States of America ~72: JIN, Chao;MULLAN, Michael;PARIS, Daniel~ 33:US ~31:62/795,549 ~32:22/01/2019;33:US ~31:62/871,951 ~32:09/07/2019

2021/05237 ~ Complete ~54:CD80 EXTRACELLULAR DOMAIN-FC FUSION PROTEINS FOR TREATING PD-L1 NEGATIVE TUMORS ~71:FIVE PRIME THERAPEUTICS, INC., 111 Oyster Point Boulevard South San Francisco, California, 94080, United States of America ~72: BARBARA SENNINO;SUSANNAH D BARBEE;THOMAS BRENNAN~ 33:US ~31:62/809,319 ~32:22/02/2019;33:US ~31:62/815,249 ~32:07/03/2019

2021/05213 ~ Provisional ~54:HEAD FLOW SURF CAROUSEL ~71:CALITZ, Peter Benjamin, 7 Grahamstown Road, North End, PORT ELIZABETH 6000, Eastern Cape, SOUTH AFRICA, South Africa ~72: CALITZ, Peter Benjamin~

2021/05225 ~ Complete ~54:THERAPEUTIC RNA AND ANTI-PD1 ANTIBODIES FOR ADVANCED STAGE SOLID TUMOR CANCERS ~71:SANOFI, 54 rue La Boétie, France ~72: ACQUAVELLA, Nicolas;BERNARDO, Marie;GIESEKE, Friederike;HSU, Karl;JABULOWSKY, Robert;JIRAKOVA TRNKOVA, Zuzana;MASCIARI, Serena;SAHIN, Ugur;WAGENAAR, Timothy, R.;YORUK, Semra~ 33:US ~31:62/794,896 ~32:21/01/2019;33:US ~31:62/926,379 ~32:25/10/2019;33:EP ~31:19306471.4 ~32:14/11/2019

2021/05214 ~ Provisional ~54:DUAL FUNCTION WATER HEATER AND AIR-CONDITIONING UNIT ~71:Vaviri (Pty) Ltd, 28 Syringa Place, Doonside, Amanzimtoti, South Africa ~72: MCRAE, Gordon~

2021/05230 ~ Complete ~54:FLOW MONITORING DEVICE FOR LIQUEFIED GAS TANK ~71:CIRCLETECH LIMITED, Suite 3.01, 16 Berkeley Street, United Kingdom ~72: RODRIGUEZ SANCHEZ, Francisco Sebastian~ 33:CN ~31:201910038595.2 ~32:16/01/2019;33:CN ~31:201920073682.7 ~32:16/01/2019

**CHANGE OF ADDRESS FOR SERVICE REGISTERED**

No records available

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

No records available

**CHANGE OF NAME IN TERMS OF REGULATION 39**

No records available

**PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63**

No records available

**PATENT APPLICATIONS ABANDONED OR WITHDRAWN**

No records available

**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 **RETURNHAULERS PROPRIETARY LIMITED OF ADAMS AND ADAMS, 4 DAVENTRY ROAD, LYNNWOOD MANOR, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **RETURNHAULERS PROPRIETARY LIMITED** an invention **A FREIGHT CARRIER** numbered **2010/08654** dated **01/12/2010** which became void **01/06/2021** owing 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 **SWANEPOEL CHARLIE JOHANNES OF ADAMS & ADAMS, 4 DAVENTRY ROAD, LYNNWOOD MANOR. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **SWANEPOEL CHARLIE JOHANNES** an invention numbered **2003/07751** dated **03/10/2003** which became void **03/10/2017** 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 **DPI CONCEPTS CC, AND, DISPLAY MANIA INTERNATIONAL CC OF HAHN AND HAHN INC, 222 RICHARD STREET, HATFIELD. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **CPI CONCEPTS CC AND DISPLAY MAMIA INTERNATIONAL CC** an invention **AN ADVERTISING DEVICE** numbered **2015/03781** dated **27/05/2015** which became void **27/05/2018** 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 **KAMBIZ SHEKDAR OF ADAMS & ADAMS, LYNNWOOD BRIDGE ROAD OFFICE PARK, 4 DAVENTRY ROAD, LYNNWOOD MANOR. PRETORIA 0001** that made application for the Restoration of the Patent granted to said **KAMBIZ SHEKDAR** an invention **GENOME EDITING USING EFFECTOR OLIGONUCLEOTIDES FOR THERAPEUTIC TREATMENT** numbered **2015/06573** dated **07/09/2015** which became void **13/03/2020** 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

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: OBSHESTVO S OGRANICHENNOI OTVETSTVENNOSTIYU 'PHARMENTERPRISES' Prospekt Vernadskogo 86, str. 5 Moscow, 119571 Russian Federation.** Request permission to amend the specification of letters patent no: **2015/08278** of **10/11/2015** for **GLUTARIMIDE DERIVATIVES, USE THEREOF, PHARMACEUTICAL COMPOSITION BASED THEREON AND METHODS FOR PRODUCING GLUTARIMIDE 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: NANORX, INC 6 Devoe Place Chappaqua, NY 10514, United States of America.** Request permission to amend the specification of letters patent no: **2015/5436** of **26/07/2015** for **METADICHOL R LIQUID AND GEL NANOPARTICLE FORMULATIONS.**

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: IDEAL ENGINEERING CC of 27A HIPPO ROAD, SPRINGFIELD, JOHANNESBURG, SOUTH AFRICA.** Request permission to amend the specification of letters patent no: **2018/06985** of **19 OCTOBER 2018** for **SECURING DEVICE AND METHOD FOR SECURING A HANDHELD/PORTABLE PHOTOTHERAPY APPARATUS**

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: EVOGENE LTD. of 13 GAD FINSTEIN STREET, REHOVOT, 76121, ISRAEL.** Request permission to amend the specification of letters patent no: **2011/09432** of **21 DECEMBER 2011** for **ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES, AND METHODS OF USING SAME FOR INCREASING NITROGEN USE EFFICIENCY, YIELD, GROWTH RATE, VIGOR, BIOMASS, OIL CONTENT, AND/OR ABIOTIC STRESS TOLERANCE.**

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: CARLSBERG BREWERIES A/S of NY CARLSBERG VEG 100,1799 COPENHAGEN V DENMARK**  
Request permission to amend the specification of letters patent no: **2018/08217** of **05 DECEMBER 2018** for  
**REFINED CEREAL-BASED BEVERAGES**

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.

**Registrar of Patents**

21: 2014/01665. 22: 06/03/2014. 43: 4/30/2021  
51: C07D

71: Katholieke Universiteit Leuven  
72: BARDIOT, Dorothée, CARLENS, Gunter,  
DALLMEIER, Kai, KAPTEIN, Suzanne,  
McNAUGHTON, Michael, MARCHAND, Arnaud,  
NEYTS, Johan, SMETS, Wim, KOUKNI, Mohamed  
33: GB 31: 1116559.4 32: 2011-09-26  
33: US 31: 61/626,410 32: 2011-09-26

#### **54: VIRAL REPLICATION INHIBITORS**

00: -

The present invention relates to a series of novel compounds, methods to prevent or treat viral infections in animals by using the novel compounds and to said novel compounds for use as a medicine, more preferably for use as a medicine to treat or prevent viral infections, particularly infections with RNA viruses, more particularly infections with viruses belonging to the family of the Flaviviridae, and yet more particularly infections with the Dengue virus. The present invention furthermore relates to pharmaceutical compositions or combination preparations of the novel compounds, to the compositions or preparations for use as a medicine, more preferably for the prevention or treatment of viral infections. The invention also relates to processes for preparation of the compounds.

21: 2014/05949. 22: 8/13/2014. 43: 4/30/2021  
51: A61K; C07D  
71: AiCuris Anti-infective Cures GmbH  
72: PAULUS, Kerstin, SCHWAB, Wilfried,  
GRUNDER, Dominique, VAN HOOGEVEST, Peter  
33: DE 31: 10 2012 101 680.1 32: 2012-02-29

#### **54: PHARMACEUTICAL PREPARATION CONTAINING AN ANTIVIRALLY ACTIVE DIHYDROQUINAZOLINE DERIVATIVE**

00: -

The invention relates to pharmaceutical preparations, in particular for intravenous administration, which contain {8-fluoro-2-[4-(3-methoxyphenyl)piperazin-1-yl]-3-[2-methoxy-5-(trifluoromethyl)phenyl]-3,4-dihydroquinazolin-4-yl} acetic acid in combination with at least one auxiliary agent selected from the cyclodextrins, lysine, and arginine, to methods for the production thereof, and to the use thereof to treat and/or prevent diseases, in particular the use thereof as antiviral agents preferably against cytomegaloviruses.

21: 2014/06776. 22: 16/09/2014. 43: 5/24/2021  
51: G06F

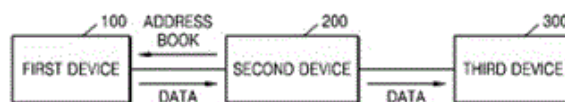
71: SAMSUNG ELECTRONICS CO., LTD.  
72: KIM, JAE-HWAN

33: KR 31: 10-2012-0015892 32: 2012-02-16

#### **54: SYSTEM AND METHOD OF TRANSMITTING DATA BY USING WIDGET WINDOW**

00: -

A system and method of transmitting data by using a widget window are provided. A method of transmitting, by a first device, a file by using a widget window includes selecting a file stored in the first device, and moving the file to the widget window, when the file is moved to the widget window, displaying a device selection list, and, when at least one device is selected from the device selection list, providing the file to the selected device, wherein the file is provided to the selected device via a second device that is connected with the first device.



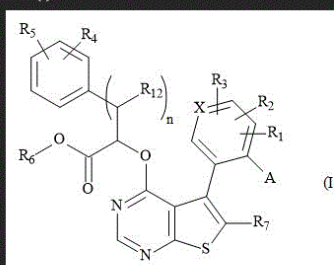
21: 2014/09365. 22: 12/18/2014. 43: 5/17/2021  
51: A61K

71: Les Laboratoires Servier, Vernalis (R&D) Ltd  
72: KOTSCHY, András, SZLÁVIK, Zoltán, CSÉKEI, Márton, PACZAL, Attila, SZABÓ, Zoltán, SIPOS, Szabolcs, RADICS, Gábor, PROSZENYÁK, Ágnes, BÁLINT, Balázs, BRUNO, Alain, GENESTE, Olivier, DAVIDSON, James Edward Paul, MURRAY, James Brooke, CHEN, I-Jen, PERRON-SIERRA, Françoise  
33: FR 31: 13/63500 32: 2013-12-23

#### **54: NEW THIENOPYRIMIDINE DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM**

00: -

Compounds of formula (I):



wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>12</sub>, X, A and n are as defined in the description.

21: 2015/00457. 22: 22/01/2015. 43: 5/24/2021  
 51: C07K; A61K; A61P  
 71: CELLDEX THERAPEUTICS, INC.  
 72: HADARI, YARON, MANDEL-BAUSCH,  
 ELIZABETH M, CARR, FRANCIS JOSEPH, JONES,  
 TIMOTHY DAVID, PERRY, LAURA CLARE  
 ALEXANDRA

33: US 31: 61/675,751 32: 2012-07-25

33: US 31: 61/675,762 32: 2012-07-25

**54: ANTI-KIT ANTIBODIES AND USES THEREOF**

00: -

Provided herein, in one aspect, are antibodies that immunospecifically bind to a human KIT antigen comprising the fourth and/or fifth extracellular Ig-like domains (that is, D4 and/or D5 domains), polynucleotides comprising nucleotide sequences encoding such antibodies, and expression vectors and host cells for producing such antibodies. The antibodies can inhibit KIT activity, such as ligand-induced receptor phosphorylation. Also provided herein are kits and pharmaceutical compositions comprising antibodies that specifically bind to a KIT antigen, as well as methods of treating or managing a KIT-associated disorder or disease and methods of diagnosing a KIT-associated disorder or disease using the antibodies described herein.

1. KGGAGAGG LCVLLLLV QGQGGGQV PGGGPPH PGGGGLVY GGGGLGQD PGGVPPET LGGGGGGQ  
 61. NVTGGAGT HGGVCTHE HGGGLVVP VGGGLVPL DGGGLGQD PGGVPPET PGGVPPET GGGGLGQD  
 161. PPGGGAGI HGGVGGAT GGGGLGQD GGGGLGQD PGGVPPET PGGVPPET PGGVPPET PGGVPPET  
 261. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT  
 361. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT  
 461. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT  
 561. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT  
 661. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT  
 761. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT  
 861. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT  
 961. PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT PGGVGGAT

Fig. 1

21: 2015/00754. 22: 02/02/2015. 43: 5/24/2021  
 51: C12N

71: ANTHROGENESIS CORPORATION  
 72: ABBOT, STEWART, KANG, LIN,  
 VOSKINARIAN-BERSE, VANESSA, ZHANG,  
 XIAOKUI

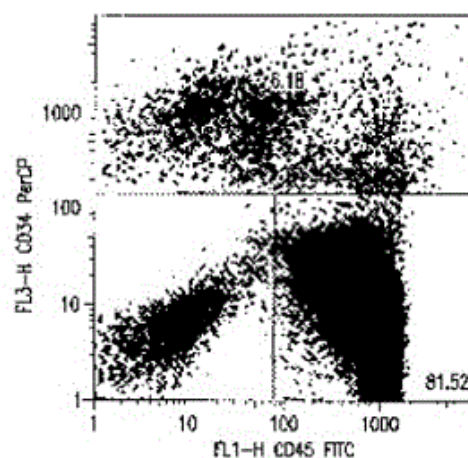
33: US 31: 61/222,930 32: 2009-07-02

**54: METHOD OF PRODUCING ERYTHROCYTES WITHOUT FEEDER CELLS**

00: -

Provided herein are methods of producing erythrocytes from hematopoietic cells, particularly hematopoietic cells from placental perfusate in

combination with hematopoietic cells from umbilical cord blood, wherein the method results in accelerated expansion and differentiation of the hematopoietic cells to more efficiently produce administrable erythrocytes. Further provided herein is a bioreactor in which hematopoietic cell expansion and differentiation takes place.



21: 2015/04229. 22: 6/11/2015. 43: 4/30/2021

51: A01N; A61K; A61P

71: Trevi Therapeutics, Inc.

72: SCIASCIA, Thomas

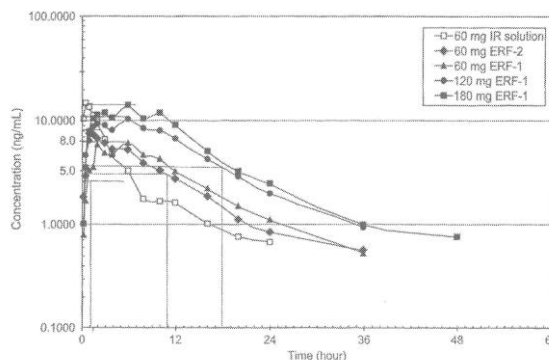
33: US 31: 13/715,625 32: 2012-12-14

33: US 31: 61/737,488 32: 2012-12-14

**54: METHODS FOR TREATING PRURITUS**

00: -

The present invention relates to methods for treating pruritus with anti-pruritic compositions.



21: 2015/06038. 22: 8/20/2015. 43: 5/7/2021

51: H04N

71: TYME LIMITED

72: KANE, John Kininmonth, LEIGH, Rafi Muller

33: ZA 31: 2013/03488 32: 2013-05-14

**54: IMAGE CAPTURING**

00: -

This invention relates to image and biometric capturing. In particular, the invention relates to a mobile communications device mount and to a method of capturing images and biometric data with a mobile communication device. The mobile communications device accessory, includes a document receptacle shaped and dimensioned to hold a document in an imaging zone and a device mounting, shaped and dimensioned to receive a mobile communications device having a built in camera such that the built in camera is directed at the document receptacle imaging zone.

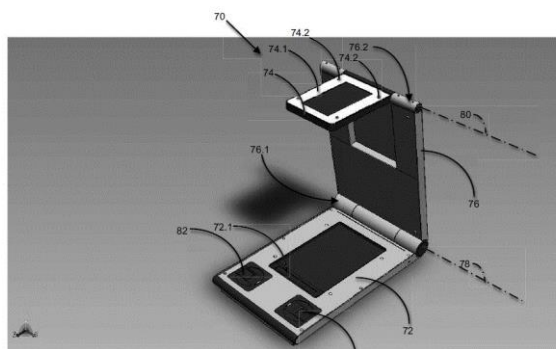


FIG. 3

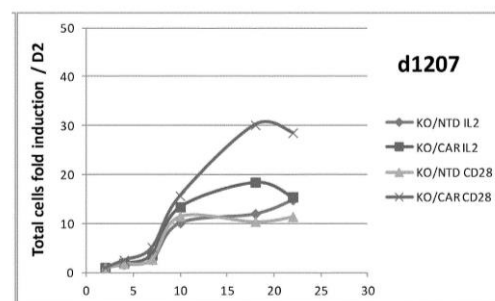
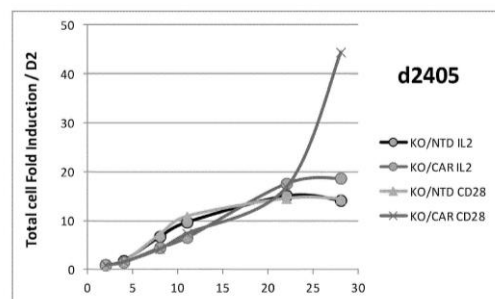
21: 2015/08068. 22: 10/30/2015. 43: 4/30/2021  
 51: C07K; C12N  
 71: Collectis  
 72: GALETTO, Roman, SMITH, Julianne,  
 SCHARENBERG, Andrew, SCHIFFER-MANNIOU,  
 Cécile  
 33: PCT/US 31: 2013/040755 32: 2013-05-13  
 33: PCT/US 31: 2013/040766 32: 2013-05-13  
 33: US 31: 13/892,805 32: 2013-05-13

**54: CD19 SPECIFIC CHIMERIC ANTIGEN RECEPTOR AND USES THEREOF**

00: -

The present invention relates to chimeric antigen receptors (CAR). CARs are able to redirect immune cell specificity and reactivity toward a selected target exploiting the ligand-binding domain properties. In particular, the present invention relates to a Chimeric Antigen Receptor in which extracellular ligand binding is a scFV derived from a CD19 monoclonal antibody, preferably 4G7. The present invention also relates to polynucleotides, vectors encoding said CAR and isolated cells expressing said CAR at their surface. The present invention also relates to

methods for engineering immune cells expressing 4G7-CAR at their surface which confers a prolonged "activated" state on the transduced cell. The present invention is particularly useful for the treatment of B-cells lymphomas and leukemia.



21: 2016/00102. 22: 06/01/2016. 43: 5/24/2021  
 51: G01R; H02H  
 71: IEP2 RESEARCH PTY LIMITED  
 72: HARRIS, RICHARD, RUBYTHON, GEOFFREY  
 33: AU 31: 2013902066 32: 2013-06-07  
**54: AN ELECTRICAL PROTECTION DEVICE AND A METHOD OF PROVIDING ELECTRICAL PROTECTION**

00: -

There is provided an integration of the leakage current functions of an RCD and the voltage sensing functions of other prior art protection devices. By integrating the two capabilities into one decision making system/algorithm, and considering the circuits performance in terms of leakage current as it correlated with elevated protective earth voltages (and vice versa), an embodiment is created which is able to "look into" a protected electrical system and make much more precise and discerning decisions on electrical status and probability of unsafe events. The resultant technology attends to the outstanding issues with the prior art technologies as they stand,



and provides a protection solution that covers the entire range of electrical power wiring configurations and the practical complexities of modern electrical works.

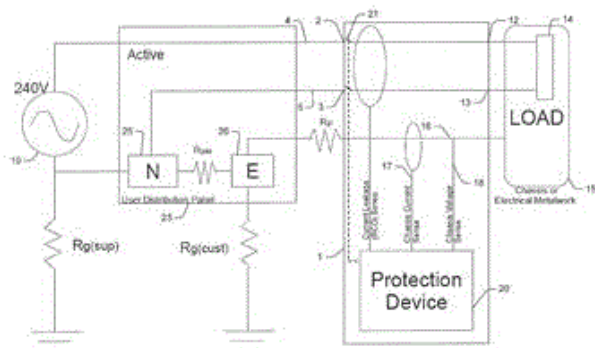


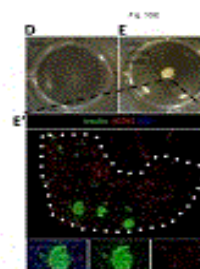
Figure 1

21: 2016/01128. 22: 18/02/2016. 43: 5/24/2021  
51: C12N; A01K; A61L; C07D; G01N  
71: PUBLIC UNIVERSITY CORPORATION  
YOKOHAMA CITY UNIVERSITY  
72: TAKEBE, TAKANORI, TANIGUCHI, HIDEKI,  
TAKAHASHI, YOSHINOBU  
33: JP 31: 2013-153056 32: 2013-07-23  
**54: METHOD FOR INTEGRATING BIOLOGICAL  
TISSUES WITH A VASCULAR SYSTEM**

00: -

The present invention provides a method of constituting a tissue construct in vitro using a tissue without depending on scaffold materials. A method of integrating a biological tissue with a vascular system in vitro, comprising coculturing a biological tissue with vascular cells and mesenchymal cells. A biological tissue which has been integrated with a vascular system by the above-described method. A method of preparing a tissue or an organ, comprising transplanting the biological tissue described above into a non-human animal and differentiating the biological tissue into a tissue or an organ in which vascular networks have been constructed. A method of regeneration or function recovery of a tissue or an organ, comprising transplanting the biological tissue described above into a human or a non-human animal and differentiating the biological tissue into a tissue or an organ in which vascular networks have been constructed. A method of preparing a non-human chimeric animal, comprising transplanting the biological tissue described above into a non-human

animal and differentiating the biological tissue into a tissue or organ in which vascular networks have been constructed. A method of evaluating a drug, comprising using at least one member selected from the group consisting of the biological tissue described above, the tissue or organ prepared by the method described above, and the non-human chimeric animal prepared by the method described above. A composition for regenerative medicine, comprising a biological tissue which has been integrated with a vascular system by the method described above.



21: 2016/01697. 22: 11/03/2016. 43: 5/24/2021  
51: C07D  
71: PTC THERAPEUTICS, INC.  
72: DU, WU, BIAZITOV, RAMIL, LEE, CHANG-SUN, MOON, YOUNG-CHOON, PAGET, STEVEN D, REN, HONGYU, SYDORENKO, NADIYA, WILDE, RICHARD GERALD  
33: US 31: 61/872,091 32: 2013-08-30  
**54: SUBSTITUTED PYRIMIDINE BMI-1  
INHIBITORS**

00: -

Amine substituted pyrimidine compounds and forms thereof that inhibit the function and reduce the level of B-cell specific Moloney murine leukemia virus integration site 1 (Bmi-1) protein and methods for their use to inhibit Bmi-1 function and reduce the level of Bmi-1 to treat a cancer mediated by Bmi-1 are described herein.

21: 2016/02153. 22: 31/03/2016. 43: 5/24/2021  
51: A24F  
71: ALTRIA CLIENT SERVICES LLC  
72: SCHIFF, DAVID, CARRICK, CHRIS, HAWES, ERIC, ROSTAMI, ALI, TUCKER, CHRISTOPHER S, YERKIC-HUSEJNOVIC, BERINA  
33: US 31: 61/883,023 32: 2013-09-26  
**54: ELECTRONIC SMOKING ARTICLE**  
00: -

An electronic smoking article includes a liquid aerosol formulation, at least one filamentary wick operable to transfer the liquid aerosol formulation, at least one heater operable to at least partially volatilize the liquid aerosol formulation and form an aerosol, a power supply operable to apply voltage across the at least one heater, and a support plate operable to support the at least one heater and the filamentary wick and to form an electrical connection between the at least one heater and the power supply.

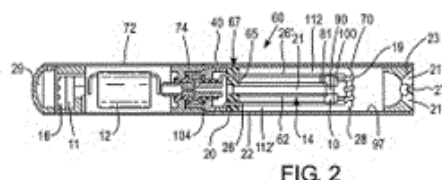


FIG. 2

21: 2016/05918. 22: 8/25/2016. 43: 5/14/2021

51: A61K; A61P

71: ImmunoGen, Inc.

72: LI, Xinfang, WORFUL, Jared M.

33: US 31: 61/468,997 32: 2011-03-29

#### **54: PREPARATION OF CELL-BINDING AGENT CYTOTOXIC AGENT CONJUGATES**

00: -

The invention provides a process for preparing a cell-binding agent cytotoxic agent conjugate comprising contacting a cell-binding agent with a cytotoxic agent to form a first mixture comprising the cell-binding agent and the cytotoxic agent and contacting the first mixture comprising the cell-binding agent and the cytotoxic agent with a bifunctional crosslinking reagent, which provides a linker, in a solution having a pH of about 4 to about 9 to provide a second mixture comprising the cell-binding agent cytotoxic agent conjugate, wherein the cell-binding agent is chemically coupled through the linker to the cytotoxic agent, free cytotoxic agent, and reaction by-products. The second mixture is then contacted with a cytotoxic agent to form a third mixture and third mixture is then contacted with a bifunctional crosslinking agent to form a fourth mixture.

21: 2016/06246. 22: 9/8/2016. 43: 5/24/2021

51: A61B; G06T

71: Bayer HealthCare LLC

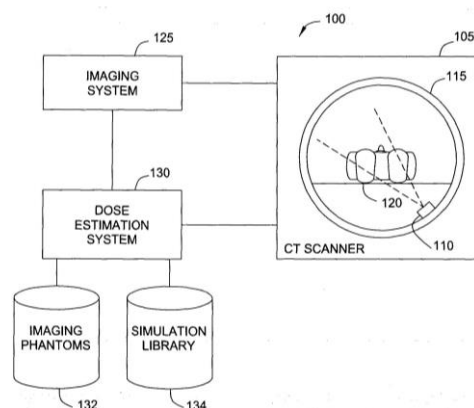
72: COUCH, Gregory, COUCH, James

33: US 31: 61/420,834 32: 2010-12-08

#### **54: GENERATING AN ESTIMATE OF PATIENT RADIATION DOSE RESULTING FROM MEDICAL IMAGING SCANS**

00: -

Techniques are disclosed for estimating patient radiation exposure during computerized tomography (CT) scans. More specifically, embodiments of the invention provide efficient approaches for generating a suitable patient model used to make such an estimate, to approaches for estimating patient dose by interpolating the results of multiple simulations, and to approaches for a service provider to host a dose estimation service made available to multiple CT scan providers.



21: 2016/06906. 22: 07/10/2016. 43: 5/24/2021

51: C07K

71: IGM BIOSCIENCES, INC.

72: KEYT, BRUCE, PRESTA, LEONARD GEORGE, ZHANG, FEN, BALIGA, RAMESH

33: US 31: 61/974,738 32: 2014-04-03

#### **54: MODIFIED J-CHAIN**

00: -

The present invention concerns modified recombinant J-chain polypeptides, binding molecules, such as antibodies comprising the same, and their uses.

21: 2016/07286. 22: 10/21/2016. 43: 4/30/2021

51: A61K; A61P

71: Minoryx Therapeutics S.L.

72: GARCÍA COLLAZO, Ana María, ECKLAND, David John Augustus, PIZCUETA LALANZA, Maria Pilar, MARTINELL PEDEMONTE, Marc

33: EP(ES) 31: 14382130.4 32: 2014-04-02

#### 54: 2,4-THIAZOLIDINEDIONE DERIVATIVES IN THE TREATMENT OF CENTRAL NERVOUS SYSTEM DISORDERS

00: -

The present invention provides 5-(4-(2-(5-(1-hydroxyethyl)pyridine-2-yl)ethoxy)benzyl)thiazolidine-2,4-dione and novel stereoisomers of said compound for use in the treatment of central nervous system (NS) disorders.

21: 2016/08480. 22: 08/12/2016. 43: 6/14/2021

51: B03B; C05F; B09B

71: FINANCE DEVELOPPEMENT  
ENVIRONNEMENT CHARREYRE - FIDEC

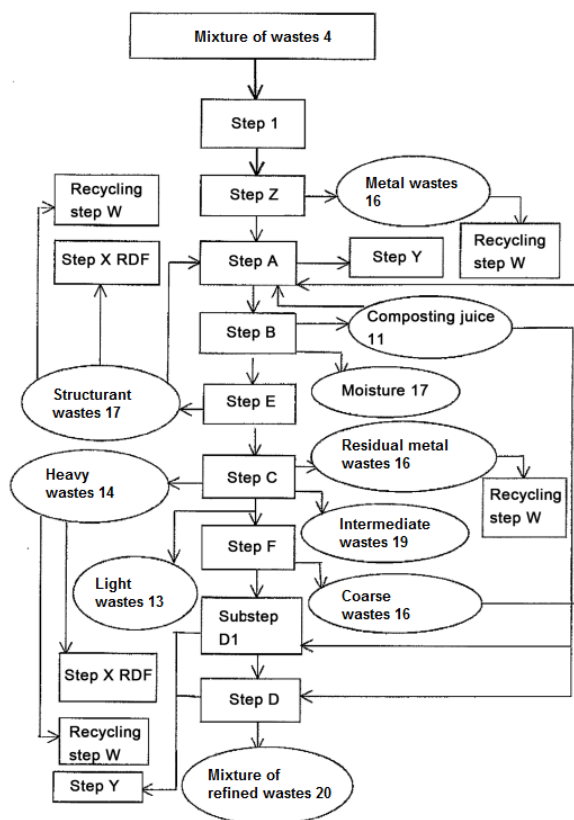
72: CHARREYRE, Fabien, Michel, Alain

33: FR 31: 14 54696 32: 2014-05-23

#### 54: METHOD AND PLANT FOR TREATING A MIXTURE OF WASTES WITH TWO COMPOSTING CYCLES

00: -

- The invention concerns a method for treating a mixture of wastes (4) comprising biodegradable wastes, the method being characterized in that it includes the following successive steps: - Step A: the mixture of wastes (4) is subjected to a first composting cycle so as to obtain a mixture of pre-composted wastes (4), - Step B: the mixture of pre-composted wastes (4) is subjected to a drying so as to obtain a mixture of dried wastes (4), - Step C: the mixture of dried wastes (4) is separated into at least a portion of heavy wastes (14) and a portion of light wastes (13), - Step D: the portion of light wastes (13) is subjected to a second composting cycle so as to obtain a mixture (4) of refined wastes (20). - Treatment of biodegradable wastes.



21: 2016/08481. 22: 08/12/2016. 43: 6/14/2021

51: B07B

71: FINANCE DEVELOPPEMENT  
ENVIRONNEMENT CHARREYRE - FIDEC

72: CHARREYRE, Fabien, Michel, Alain

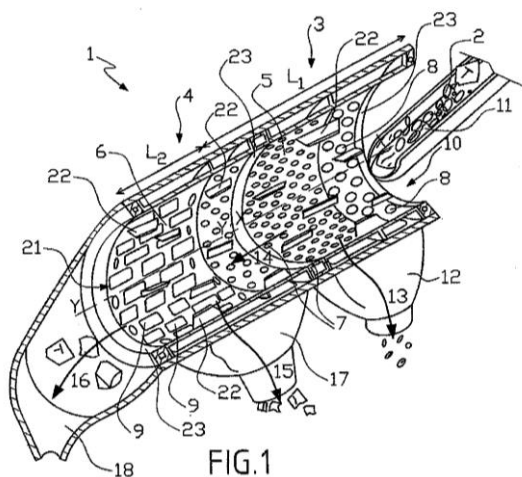
33: FR 31: 1454709 32: 2014-05-23

#### 54: MACHINE FOR SORTING A MIXTURE OF WASTES, AND ASSOCIATED SORTING METHOD

00: -

- The invention concerns a rotary machine (1) for sorting a mixture of wastes (2), said sorting machine (1) being characterized in that it comprises at least: - a first trommel section (3), provided with a first separation wall (5) extending over a first length (L1) allowing separating the mixture of wastes (2) into a first fraction of wastes (13) getting through said first separation wall (5) and into a residual second fraction of wastes (14), and - a second trommel section (4), provided with a second separation wall (6) extending over a second length (L2) smaller than the first length (L1), and allowing separating the residual second fraction of wastes (14) into a subfraction of small-sized wastes (15) getting through said second separation wall (6) and into a

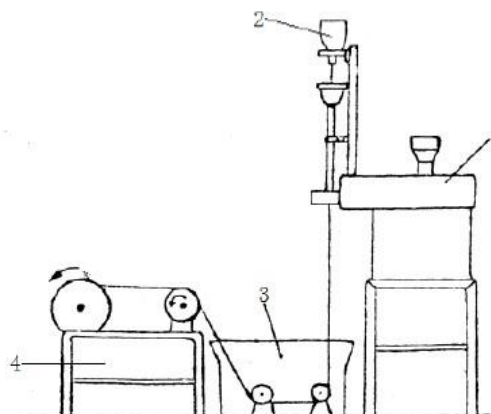
residual subfraction of large-sized wastes (16). -  
Wastes sorting.



21: 2016/08720. 22: 12/19/2016. 43: 6/17/2021  
51: C06C  
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
72: Xinghua, XIE, Huisheng, ZHOU, Jun, XIE, Shaobo, YAN, Xiaokang, ZHANG, Hongbo, WU  
33: CN 31: 201610971423.7 32: 2016-10-28  
**54: THERMOBARIC NONEL AND PREPARATION METHOD THEREOF**  
00: -

The present invention relates to a thermobaric nonel, comprising a double-layer laminated tube, the double-layer laminated tube comprising a first plastic layer located in an outer layer, a second plastic layer provided clingly on an inner surface of the first plastic layer, and an accommodation space inside the second plastic layer, the accommodation space being filled with thermobaric explosive. Furthermore, raw material components for the thermobaric explosive are defined in the present invention. Accordingly, with regard to the thermobaric nonel of the present invention, the thermobaric thermal effect is dominant, so that firing occurs at a high temperature, only deflagration and combustion will be produced instead of detonation and knocking, and high impact and heat are generated for rock breaking; the thermobaric nonel realizes thermobaric ignition by the condensed-phase special energy exothermic reaction, to finally realize harmonious blasting; with the use of the thermobaric nonel of the present invention, the predetermined blasting effects

can be realized, and the adverse effects of blasting can also be fundamentally controlled, so that the quick and efficient, safe and reliable, green and environmentally-friendly, and economically rationally blasting can be eventually realized.



21: 2016/08745. 22: 12/19/2016. 43: 6/22/2021  
51: F42B  
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
72: Xinghua, XIE, Huisheng, ZHOU, Jun, XIE, Shaobo, YAN, Xiaokang, ZHANG, Hongbo, WU  
33: CN 31: 201610960507.0 32: 2016-10-28  
**54: THERMOBARIC EXPLOSIVE AND PREPARATION METHOD THEREOF**  
00: -

The present invention belongs to the technical field of explosive, and particularly relates to thermobaric explosive and a preparation method thereof. or the thermobaric explosive, the thermobaric thermal effect is dominant, the amount of the generated gas is significantly reduced, and meanwhile high impact and heat are generated for rock breaking. With regard to the thermobaric explosive prepared by using a nitrate and/or an oxide, a combustible agent and an accelerant as raw material components at an appropriate proportion, firing occurs at a high temperature, and the safety in the production, transportation, storage and use processes is effectively ensured.

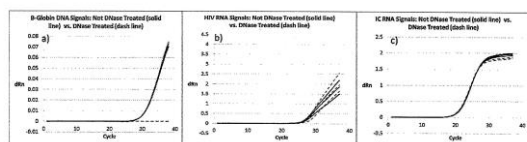
21: 2017/00105. 22: 1/5/2017. 43: 5/10/2021  
51: G01N  
71: Abbott Molecular Inc.  
72: HUANG, Shihai X., DUNN, Chad, SALITURO, John, ERICKSON, Brian

33: US 31: 62/023,458 32: 2014-07-11

**54: AUTOMATED HIV-1 VIRAL LOAD TESTING PROCEDURE FOR DRIED SPOTS**

00: -

The present invention provides novel and non-obvious improvements to dried blood spot testing for HIV-1 viral load useful for diagnosis and monitoring treatment progression.



21: 2017/00345. 22: 16/01/2017. 43: 5/24/2021

51: A61F

71: JOINT INNOVATION TECHNOLOGY, LLC

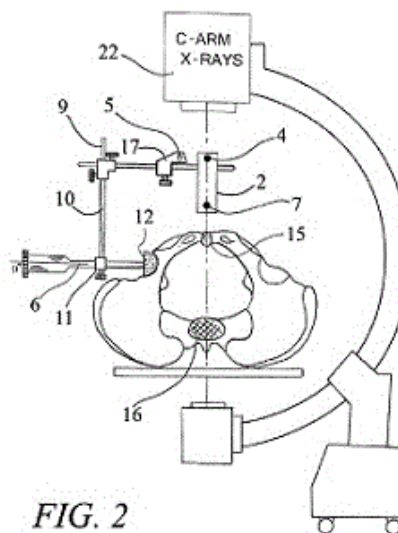
72: TERMANINI, ZAFER

33: US 31: 14/326,006 32: 2014-07-08

**54: ACETABULAR CUP POSITIONING DEVICE AND METHOD THEREOF**

00: -

Positioning an acetabular cup in a desired optimal alignment in relation to the patients pelvis using conventional fluoroscopic equipment readily available in operating rooms in conjunction with a metallic jig as guide. The device having inclination metallic rods at 45 degrees angle to the cup impactor and anteversion rod situated at a distance from the midline that correspond to the degree of inclination. When said inclination and anteversion shafts are aligned with central anatomical structures such as symphysis pubis and middle of first sacral vertebra will result in correct placement of the acetabular cup at the desired version.

**FIG. 2**

21: 2017/00459. 22: 1/19/2017. 43: 4/30/2021

51: A61K; A61P; C07K

71: Chugai Seiyaku Kabushiki Kaisha

72: YONEYAMA, Koichiro

33: JP 31: 2014-127240 32: 2014-06-20

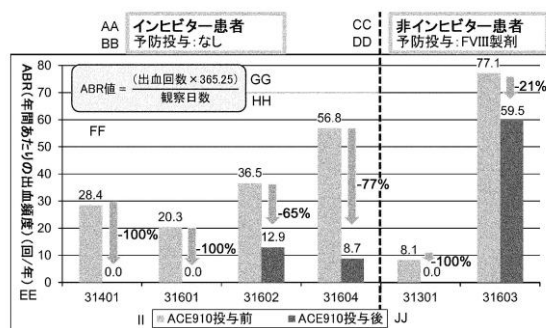
**54: PHARMACEUTICAL COMPOSITION FOR USE IN PREVENTION AND/OR TREATMENT OF DISEASE THAT DEVELOPS OR PROGRESSES AS A RESULT OF DECREASE OR LOSS OF ACTIVITY OF BLOOD COAGULATION FACTOR VIII AND/OR ACTIVATED BLOOD COAGULATION FACTOR VIII**

00: -

The present invention is based on the discovery that by administering a predetermined dosing regimen of a pharmaceutical composition that comprises a bi-specific antigen-binding molecule that recognizes blood coagulation factor IX and/or activated blood coagulation factor IX and blood coagulation factor X and/or activated blood coagulation factor X, it is possible to more effectively prevent and/or treat a disease that develops or progresses as a result of a decrease or loss of the activity of blood coagulation factor VIII and/or activated blood coagulation factor VIII.



[図1]

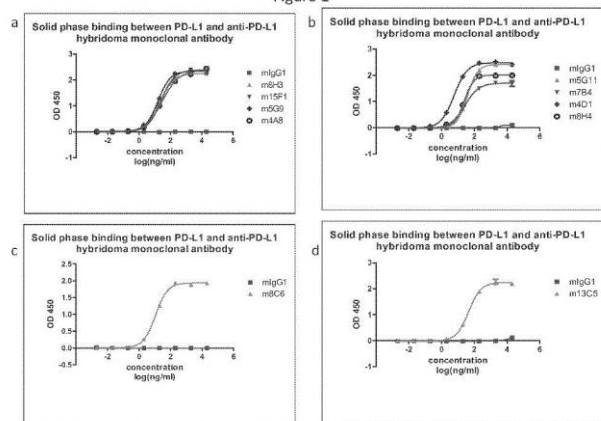


AA Inhibitor patient  
 BB Preventive medication: none.  
 CC Non-inhibitor patient  
 DD Preventive medication: FVIII preparation.  
 EE ABR (annual bleed rate, number of bleeds per year)  
 FF ABR value  
 GG Number of bleeds × 365.25  
 HH Number of observation days  
 II Prior to administration of ACE910  
 JJ After administration of ACE910

21: 2017/00785. 22: 01/02/2017. 43: 5/14/2021  
 51: C07K  
 71: APOLLOMICS INC. (USA)  
 72: ZHA, Jiping, SUN, Ziyong, QIU, Junzhuan  
 33: CN 31: PCT/CN2014/083715 32: 2014-08-05  
**54: ANTI-PD-L1 ANTIBODIES**

00: -  
 The present disclosure relates to antibodies and antigen-binding fragments thereof that bind to PD-L1, and to methods of using such antibodies and antigen-binding fragments. For example, the present invention provides humanized anti-PD-L1 antibodies and methods of use thereof.

Figure 1

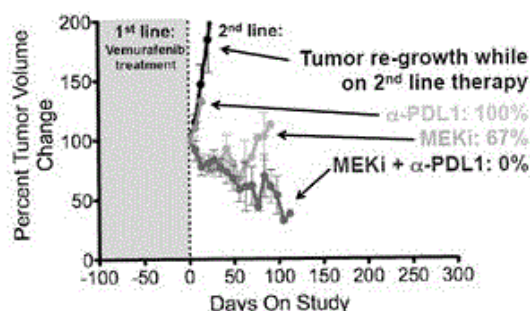


21: 2017/01109. 22: 14/02/2017. 43: 5/24/2021  
 51: A61K; C07K  
 71: GENENTECH, INC.  
 72: JUNTILLA, MELISSA  
 33: US 31: 62/024,988 32: 2014-07-15

## 54: COMPOSITIONS FOR TREATING CANCER USING PD-1 AXIS BINDING ANTAGONISTS AND MEK INHIBITORS

00: -

The present invention describes combination treatment comprising a PD-1 axis binding antagonist and a MEK inhibitor and methods for use thereof, including methods of treating conditions where enhanced immunogenicity is desired such as increasing tumor immunogenicity for the treatment of cancer.



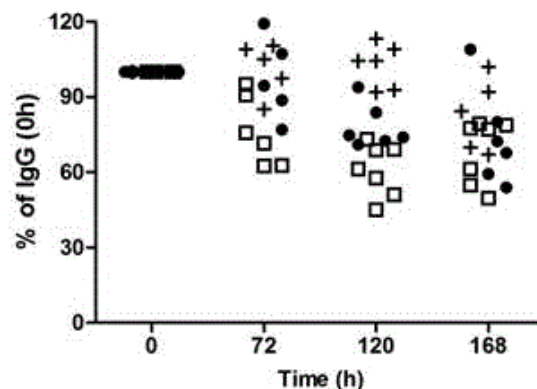
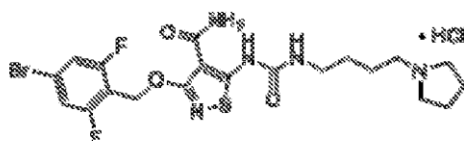
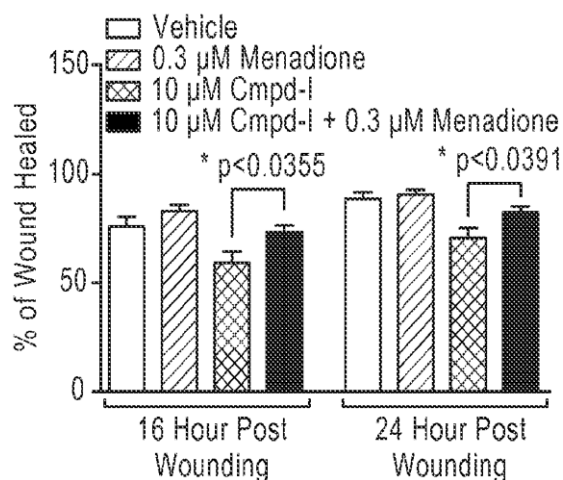
21: 2017/01303. 22: 21/02/2017. 43: 6/14/2021  
 51: A61K; A61P  
 71: PANOPTICA, INC.  
 72: BINGAMAN, David, P., CHANEY, Paul, G., WAX, Martin, B.  
 33: US 31: 62/051,794 32: 2014-09-17

## 54: OCULAR FORMULATIONS FOR DRUG-DELIVERY AND PROTECTION OF THE ANTERIOR SEGMENT OF THE EYE

00: -

The present application relates to topical formulations comprising Compound-I, or its free base, and a second active agent selected from nicotinic acid, nicotinamide, and vitamin K, and a combination thereof, for treating ocular neovascularization. The present application also relates to pharmaceutical compositions comprising particles of Compound-I or its free base, and suspension formulations comprising the particle compositions of Compound-I or its free base.

Figure 6B



21: 2017/02347. 22: 03/04/2017. 43: 5/10/2021

51: A61K; C07K; C07H

71: SEATTLE GENETICS, INC.

72: GARDAL, SHYRA, LAW, CHE-LEUNG, PENG, STANFORD, YANG, JING, NEFF-LAFORD, HALEY

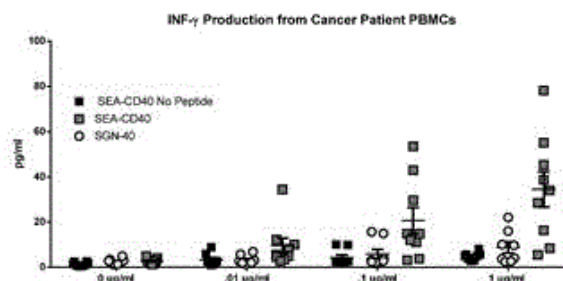
33: US 31: 62/134,955 32: 2015-03-18

33: US 31: 62/072,031 32: 2014-10-29

**54: DOSAGE AND ADMINISTRATION OF NON-FUCOSYLATED ANTI-CD40 ANTIBODIES**

00: -

This invention relates methods of using a non-fucosylated anti-CD40 antibody for treatment of cancer and chronic infectious diseases.



21: 2017/03027. 22: 5/2/2017. 43: 4/30/2021

51: B25D; E21B

71: Sandvik Mining and Construction Oy

72: RANTALA, Esa, MUUTTONEN, Timo, KOTALA, Ari, SAUKKO, Pekka

33: EP(FI) 31: 16175645.7 32: 2016-06-22

**54: ROCK DRILL**

00: -

A rock drill (1) comprises a frame (6), a percussion member (2), an axial shank (3), and an axial sleeve (5) provided within the frame (6) and comprising a first pressure surface (8) provided in a first pressure space (7) and a second pressure surface (10)

21: 2017/01348. 22: 22/02/2017. 43: 5/24/2021

51: A61K; C07K

71: AFFIBODY AB

72: ABRAHMSÉN, LARS, EKBLAD, CAROLINE, GUNNERIUSSON, ELIN, GRÄSLUND, TORBJÖRN, SEIJSING, JOHAN, LÖFBLUM, JOHN, LINDBORG, MALIN, FREJD, FREDRIK, GUDMUNSDOTTER, LINDVI

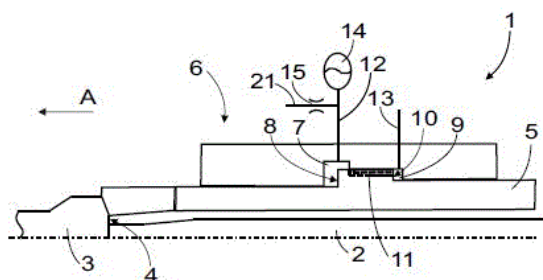
33: EP 31: 14185140.2 32: 2014-09-17

**54: NEW POLYPEPTIDES**

00: -

The present disclosure relates to dimers of engineered polypeptides having a binding affinity for the neonatal Fc receptor FcRn, and provides an FcRn binding dimer, comprising a first monomer unit, a second monomer unit and an amino acid linker, wherein said first and second monomer unit each comprises an FcRn binding motif. Said FcRn binding dimer binds FcRn with higher capacity compared to said first monomer unit or second monomer unit alone. The present disclosure also relates to the use of said FcRn binding dimer as an agent for modifying pharmacokinetic and pharmacodynamic properties and as a therapeutic agent.

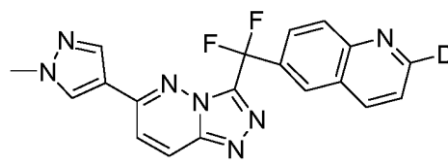
provided in a second pressure space (9). A first channel (11) is provided in the axial sleeve (5) for providing a connection between the first pressure space (7) and the second pressure space (9) in at least one position of the axial sleeve (5) in the frame (6). A second pressure channel (13) connected to the second pressure space (9) is connectable to external pressure. A pressure accumulator (14) is connected to the first pressure space (7) and the flow of the pressure medium outwards from the first pressure space (7) is throttled.



21: 2017/03386. 22: 16/05/2017. 43: 6/14/2021  
51: A61K; C07B; C07D; A61P  
71: JANSSEN PHARMACEUTICA NV  
72: FURER, Patrick, Blasius, GILISSEN, Ronaldus, Arnodus, Hendrika, Joseph, HOUPIS, Ioannis, Nicolaos, MEERPOEL, Lieven, PERERA, Timothy, Pietro, Suren, PYE, Philip, James  
33: EP 31: 14196387.6 32: 2014-12-04  
33: EP 31: 14196585.5 32: 2014-12-05  
**54: A DEUTERATED TRIAZOLOPYRIDAZINE AS A KINASE MODULATOR**

00: -

The invention is directed to a triazolopyridazine compound of formula (I), N-oxides, pharmaceutically acceptable salts and solvates thereof, wherein D represents deuterium, the use of such compounds as protein tyrosine kinase modulators, particularly inhibitors of c-Met, and the use of such compounds to reduce or inhibit kinase activity of c-Met in a cell or a subject, and modulate c-Met expression in a cell or subject, and the use of such compounds for preventing or treating in a subject a cell proliferative disorder and/or disorders related to c-Met. The present invention is further directed to pharmaceutical compositions comprising the compounds of the present invention and to methods for treating conditions such as cancers and other cell proliferative disorders.

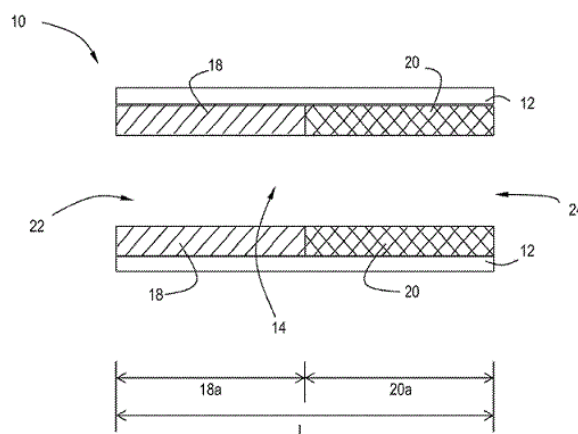


(I)

21: 2017/03525. 22: 5/23/2017. 43: 5/24/2021  
51: B01J B01D  
71: BASF CORPORATION  
72: MOHANAN, Jaya, L., YANG, Jeff, BURK, Patrick, VOSS, Kenneth, E.  
33: US 31: 62/072,687 32: 2014-10-30  
**54: MIXED METAL LARGE CRYSTAL MOLECULAR SIEVE CATALYST COMPOSITIONS, CATALYTIC ARTICLES, SYSTEMS AND METHODS**

00: -

Described are compositions and catalytic articles comprising both a first molecular sieve promoted with copper and a second molecular sieve promoted with iron, the first and second molecular sieves having a d6r unit and the first molecular sieves having cubic shaped crystals with an average crystal size of about 0.5 to about 2 microns. The weight ratio of the copper-promoted molecular sieve to the iron-promoted molecular sieve can be about 1:1 to about 4:1. The catalytic articles are useful in methods and systems to catalyze the reduction of nitrogen oxides in the presence of a reductant.



21: 2017/03789. 22: 02/06/2017. 43: 5/24/2021  
51: B03D  
71: ECOLAB USA INC.  
72: COUNTER, James, Adrian, KILDEA, John, D.

33: US 31: 14/042,974 32: 2013-10-01

**54: FROTHERS FOR MINERAL FLOTATION**

00: -

The invention provides methods and compositions for improving a froth flotation type separation. The method uses a microemulsion to improve the effectiveness of a frother. The improvement allows for low dosages of frother to work as well as much greater amounts of non-microemulsified frother.

21: 2017/04421. 22: 6/29/2017. 43: 4/30/2021

51: A01N; A01P; C02F

71: Ercros, S.A.

72: CORONAS CERESUELA, Joaquín, PASETA MARTÍNEZ, Lorena, SIMÓN GAUDÓ, Elena, GRACIA GORRIA, Francisco Andrés, ESPAÑA MARAVER, Francisco José

33: ES 31: P 201431845 32: 2014-12-16

**54: TABLETS FOR TREATING AND DISINFECTING WATER**

00: -

Tablets for treating and disinfecting water, particularly for water of swimming pools and spas comprising a halogenated derivative of isocyanuric acid together with a volatile additive, chemically incompatible with the latter, encapsulated in a microporous or mesoporous material which has a certain pore size, pore volume and a specific surface. The tablets are chemically stable, while maintaining the expected activity of both the halogenated derivative of isocyanuric acid and the additive.

21: 2017/04910. 22: 7/19/2017. 43: 4/30/2021

51: H02S

71: Sunfolding, Inc.

72: MADRONE, Leila Marcia, BETTS, Kyle Douglas, LYNN, Peter Sturt, BASEL, Louis Hong, RIDLEY, Brent, GRIFFITH, Saul Thomas, MCBRIDE, James Dylan, LAMB, Jeffrey, LIEN SUAN, Eric Preston, LIN, Erica, ERICKSON, Joshua, ROMANIN, Vincent Domenic

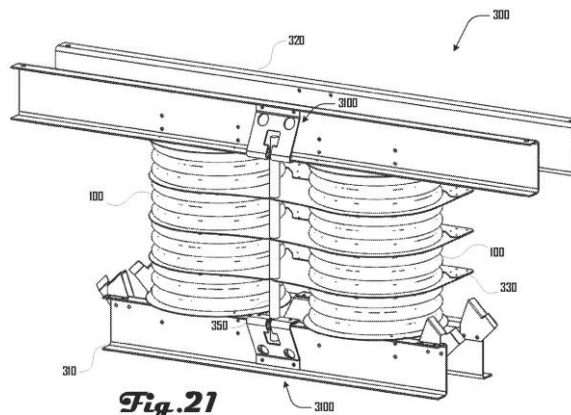
33: US 31: 62/110,275 32: 2015-01-30

**54: FLUIDIC ACTUATOR SYSTEM AND METHOD**

00: -

A pneumatically actuated solar panel array system that includes a plurality of separate actuator assemblies that each have a top plate and bottom plate and a first and second bellows that each extend between and are coupled to the top and bottom plates at a respective top head and bottom

head, the first and second bellows being configured to be separately pneumatically inflated, where the pneumatic inflation expands the bellows along a length. The pneumatically actuated solar panel array system can also include a plurality of solar panels coupled to the actuator assemblies with the solar panels being configured to be actuated based on inflation of one or more bellows associated with the plurality of actuator assemblies.



21: 2017/05821. 22: 8/25/2017. 43: 5/24/2021

51: C08L; C08K

71: CSIR

72: SUPRAKAS, RAY SINHA, BANDYOPADHYAY, JAYITA, KHOZA, MARY, OJIJO, VINCENT, SCRIBA, MANFRED RUDOLF

33: ZA 31: 2016/05959 32: 2016-08-26

**54: ISOTACTIC POLYPROPYLENE BASED COMPOSITE**

00: -

This invention relates to a process for producing an isotactic polypropylene based composite, comprising: reactive blending of isotactic polypropylene homo-polymer; polypropylene grafted with a carboxylic anhydride or a furan type moiety such as maleic anhydride grafted polypropylene; and an amino silane such as (3-aminopropyl)triethoxysilane to produce an isotactic polypropylene based composite such that the crystallization temperature of the isotactic polypropylene based composite is in a range of about 120°C to about 126°C. The reactive blending can further take place in the presence of an organically modified nanoclay.

21: 2017/06069. 22: 06/09/2017. 43: 10/9/2018



51: B22F; E21B

71: US SYNTHETIC CORPORATION

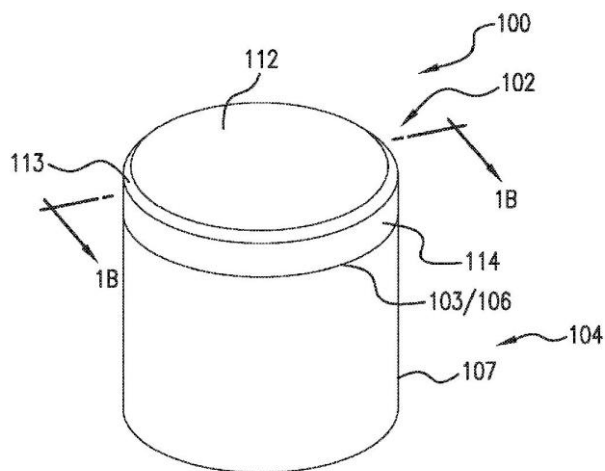
72: BERTAGNOLLI, Kenneth E.,  
MUKHOPADHYAY, Deb Kumar, KNUTESON, Cody  
William

33: US 31: 14/677,875 32: 2015-04-02

**54: POLYCRYSTALLINE DIAMOND COMPACTS,  
AND RELATED METHODS AND APPLICATIONS**

00: -

Embodiments relate to polycrystalline diamond compacts ("PDCs") including a polycrystalline diamond ("PCD") table in which a metal-solvent catalyst is alloyed with at least one alloying element to improve thermal stability and/or wear resistance of the PCD table. In an embodiment, a PDC includes a substrate and a PCD table bonded to the substrate. The PCD table includes diamond grains defining interstitial regions. The PCD table includes an alloy comprising at least one Group VIII metal and at least one metallic alloying element such as phosphorous.



21: 2017/06103. 22: 07/09/2017. 43: 5/24/2021

51: B65D

71: Punch Innovations Proprietary Limited

72: JOUBERT, Pieter Bosman

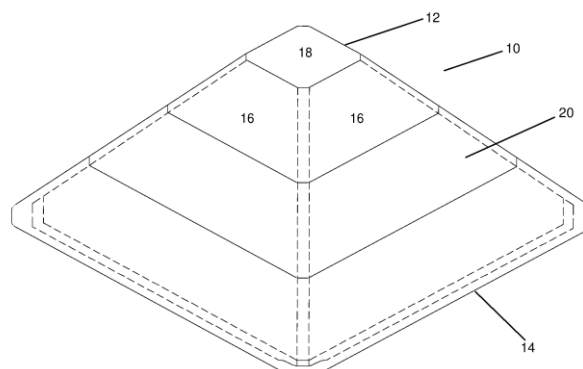
33: ZA 31: 2014/08320 32: 2014-11-13

**54: PACKAGING CONTAINER**

00: -

The invention includes a packaging container comprising a generally pyramid-shaped body with a top and a base and including a waistband which fits over the top and into a position in which it abuts the sides of the body, wherein the waistband can be separated from the body and the body inverted and placed thereon so that the waistband forms a pedestal for supporting the body in an inverted

fashion. The invention further includes methods for displaying foodstuffs and transporting foodstuffs with the packaging container described.



21: 2017/06462. 22: 9/26/2017. 43: 5/24/2021

51: B01J; C10J

71: Standard Gas Limited

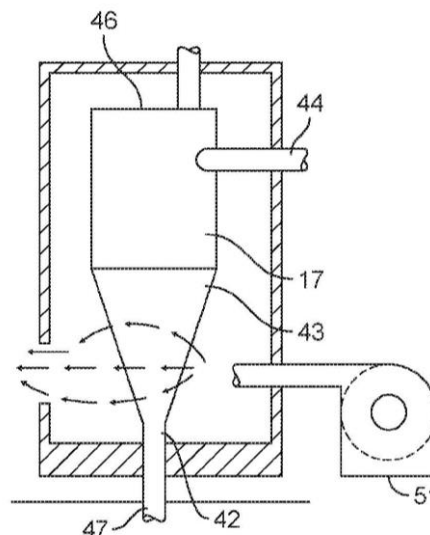
72: DONEGAN, Daniel Michael

33: GB 31: 1503760.9 32: 2015-03-05

**54: PYROLYSIS OR GASIFICATION APPARATUS  
AND METHOD**

00: -

A pyrolysis apparatus having a heating system adapted to heat a first gas enclosure, wherein a gas path within the heated enclosure is helical or spherical. Pyrolysis is used to destroy oils, tars and/or PAHs in a gaseous mixture.



21: 2017/07056. 22: 18/10/2017. 43: 5/10/2021

51: H05B; A24F

71: ALTRIA CLIENT SERVICES LLC



33: US 31: 62/151,809 32: 2015-04-23

00: -

51: A61F; G02C

72: SARVER, Edwin J., SIMMS, James J.

33: US 31: 14/686,233 32: 2015-04-14

00: -

A schematic diagram of a mechanical assembly, likely a valve or actuator. It features a central vertical shaft (50) passing through a series of components. From top to bottom, these are: a rectangular flange (49), a bellows-like flexible joint (48), another rectangular flange (47), and a large, vertically oriented, oval-shaped bellows (46). A horizontal arrow (45) points to the right, passing through the center of the oval bellows (46). The entire assembly is shown within a rectangular frame.

51: C07D

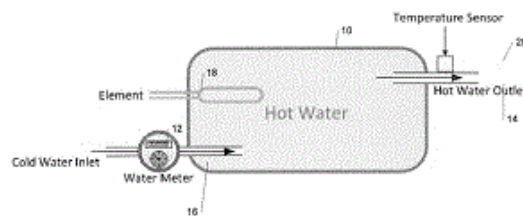
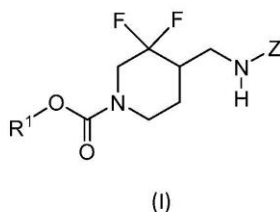
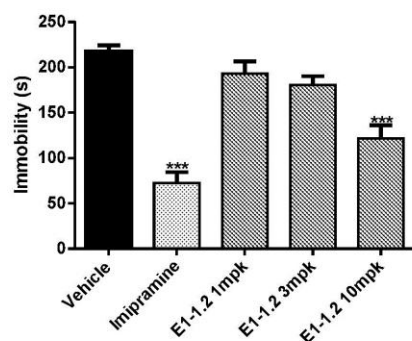
72: SHAPIRO, Gideon

33: US 31: 62/169,107 32: 2015-06-01

00: -

Also disclosed are pharmaceutical compositions comprising a chemical entity of Formula (I), and methods of treating various diseases and disorders associated with NR2B antagonism, e.g., diseases and disorders of the CNS, such as depression, by administering a chemical entity of Formula (I).

FIG. 1A



21: 2017/08224. 22: 04/12/2017. 43: 6/22/2021

51: G01N

71: SENTRONIC GMBH GESELLSCHAFT FÜR OPTISCHE MESSSYSTEME

72: Matthias LAU

33: DE 31: 10 2015 210 880.5 32: 2015-06-15

**54: MEASURING DEVICE FOR DETERMINING PHYSICAL PROPERTIES, CHEMICAL PROPERTIES, BIOLOGICAL PROPERTIES AND/OR MATERIALS IN THE SURROUNDINGS OF AT LEAST ONE SENSOR OR OF THE AT LEAST ONE SENSOR AS A COMPONENT OF THE MEASURING DEVICE**

00: -

The invention relates to a measuring device for determining physical properties, chemical properties, biological properties, and/or materials in the surroundings of at least one sensor or of the at least one sensor itself as a component of the respective measuring device. The measuring devices are characterized in particular in being simple, robustly controllable, and able to be influenced in the function thereof. In addition, the measuring device comprises at least one sensor as a component of a passive device and/or as a component of an active metrological functional unit. The active metrological functional unit further comprises a data processing system and a transmission and receiving unit for electromagnetic radiation and is connected to an electrical energy source. Furthermore, the transmission and receiving unit of the active metrological functional unit is wirelessly connected to at least one transmission and receiving unit for electromagnetic radiation of at least one passive device, – to at least one operating element, – to at least one switching device, – for controlling the measuring device, – for signaling, – for obtaining measured values, – for displaying an operating state, – for calibrating the sensor, – as a data medium, and/or – as a data memory.

21: 2017/08202. 22: 01/12/2017. 43: 5/24/2021

51: F24D; G06Q

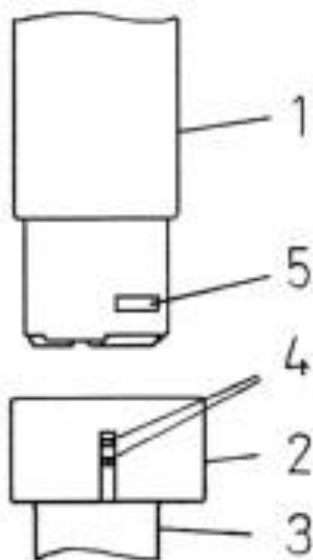
71: MOBILE TELEPHONE NETWORKS (PROPRIETARY) LIMITED

72: ANDRIES BRINK VAN DER MERWE, MARTHINUS JOHANNES BOOYSEN, PHILIP JOHANNES CORNELIS NEL, YUSUF KAKA

**54: A WATER HEATER CONTROLLER**

00: -

A water heater controller and method includes a memory for storing data therein including historical water usage data including the time, date and amount of historical water usage from a water heater to be controlled by the controller. The data further includes water heater energy loss data. A processor is connected to the memory and retrieves the historical water usage data from the memory for a past period of time and uses this to determine a future water usage schedule. The processor then retrieves the water heater energy loss data from the memory and uses this together with the future water usage schedule to calculate a future energy supply schedule for the water heater so that hot water will be available when required as determined by the future water heater schedule whilst the amount of energy required to provide the hot water will be reduced.



21: 2017/08519. 22: 14/12/2017. 43: 5/24/2021

51: B61L

71: TECHNOLOGICAL RESOURCES PTY. LIMITED

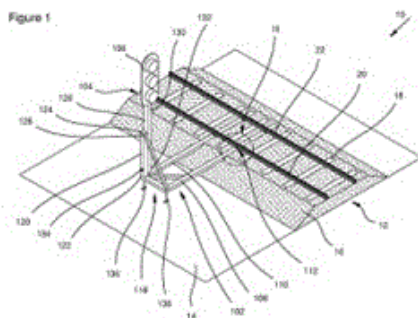
72: PEREIRA, TIBERIO VIRGILIO NOGUEIRA

33: AU 31: 2015902468 32: 2015-06-25

**54: A SUPPORT FRAME FOR A TEMPORARY SIGNAL FOR A RAILROAD**

00: -

A support frame is disclosed for a temporary signal for a railroad. The railroad includes a track having two elongate rails, and the support frame comprises a post arranged to support a railroad signal, a base joined to the post, and at least one attachment for attaching the base to both rails of the track. The base comprises a first beam and a second beam, and the first beam and the second beam are each arranged to be attached to both of the rails.



21: 2018/00092. 22: 1/5/2018. 43: 5/14/2021

51: A61K

71: Janssen Vaccines & Prevention B.V.

72: LANGEDIJK, Johannes, ROYMANS, Dirk André Emmy

33: EP(NL) 31: 15175647.5 32: 2015-07-07

**54: VACCINE AGAINST RSV**

00: -

The present invention relates to compositions comprising a recombinant respiratory syncytial virus (RSV) Fusion (F) polypeptide that is stabilized in the pre-fusion conformation, wherein said RSV F polypeptide comprises at least one mutation as compared to a wild type RSV F polypeptide, wherein the at least one mutation is selected from the group consisting of: a) a mutation of the amino acid aspartic acid (D) on position 486, b) a mutation of the amino acid aspartic acid (D) on position 489, and c) a mutation of the amino acid serine (S) on position 398 and/or the amino acid lysine (K) on position 394. The invention also relate to compositions comprising an isolated nucleic acid molecule encoding said stable RSV F polypeptides.

21: 2018/00183. 22: 10/01/2018. 43: 5/14/2021

51: F02C

71: 8 RIVERS CAPITAL, LLC

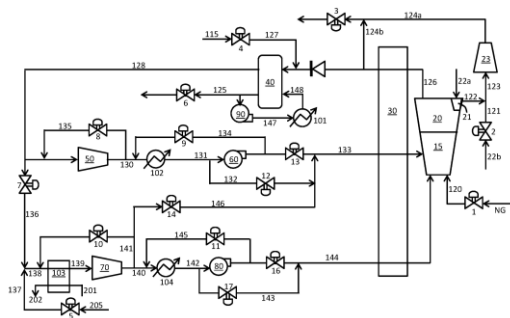
72: FETVEDT, Jeremy, Eron, FORREST, Brock Alan

33: US 31: 62/175,886 32: 2015-06-15

**54: SYSTEM AND METHOD FOR STARTUP OF A POWER PRODUCTION PLANT**

00: -

The present disclosure relates to systems and methods that provide power generation using predominantly CO<sub>2</sub> as a working fluid. In particular, the present disclosure provides for particular configurations for startup of a power generation system whereby the combustor may be ignited before the turbine is functioning at a sufficiently high speed to drive the compressor on a common shaft to conditions whereby a recycle CO<sub>2</sub> stream may be provided to the combustor at a sufficient flow volume and flow pressure. In some embodiments, a bypass line may be utilized to provide additional oxidant in place of the recycle CO<sub>2</sub> stream.



21: 2018/00238. 22: 1/12/2018. 43: 5/14/2021

51: C07K

71: Inhibrx, Inc.

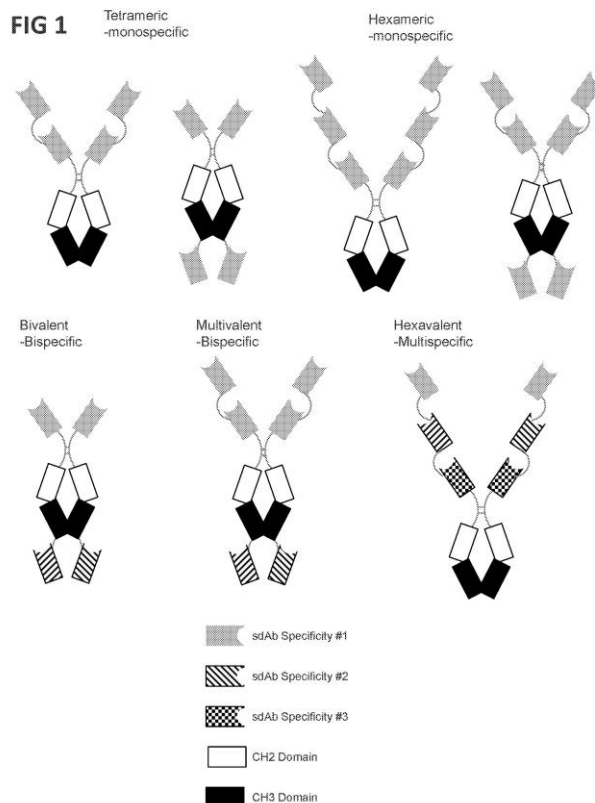
72: TIMMER, John C., JONES, Kyle S., RAZAI, Amir S., HUSSAIN, Abraham, WILLIS, Katelyn M., DEVERAUX, Quinn, ECKELMAN, Brendan P.

33: US 31: 62/193,309 32: 2015-07-16

#### 54: MULTIVALENT AND MULTISPECIFIC DR5-BINDING FUSION PROTEINS

00: -

The disclosure relates generally to molecules that specifically engage death receptor 5 (DR5), a member of the TNF receptor superfamily (TNFRSF). More specifically the disclosure relates to multivalent and multispecific molecules that bind at least DR5.



21: 2018/00301. 22: 16/01/2018. 43: 5/24/2021

51: A61B; A61F

71: HIP INNOVATION TECHNOLOGY, LLC

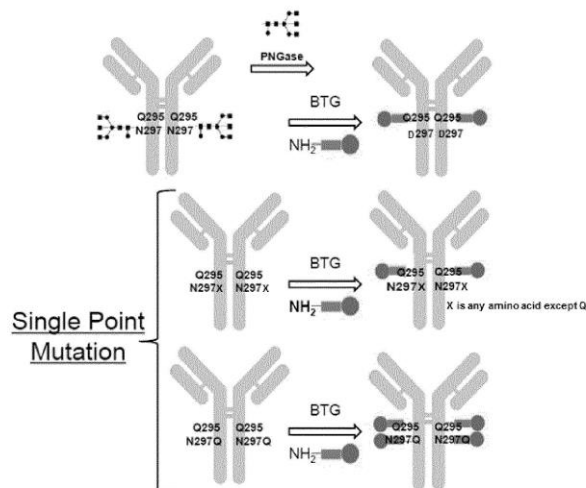
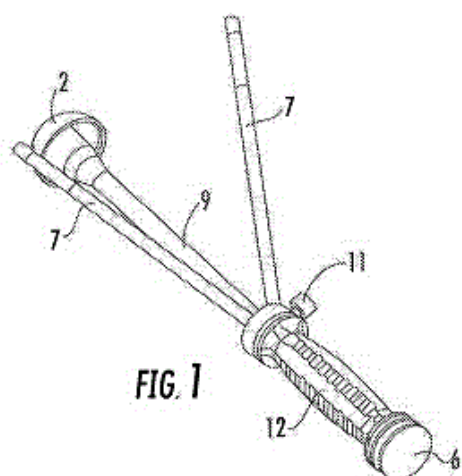
72: TERMANINI, ZAFER, VANHIEL, BRIAN, CHARLES, KIRK

33: US 31: 62/197,215 32: 2015-07-27

#### 54: BALL AND CUP IMPACTORS FOR IMPLANTING A HIP PROSTHESIS

00: -

New surgical instruments and methods used to implant elements of a reverse hip prosthesis in a patient are described. The instruments are impactors which are struck with a hammer at their proximal ends after the instrument has been used to position the implant element in the patient. An acetabular cup impactor has inclination and anteversion rods which are used to position the acetabular cup optimally in the acetabulum. An acetabular ball impactor affixes the acetabular ball in the acetabular cup by means of a Morse taper. And a femoral cup impactor affixes the femoral cup in the femoral stem by means of a Morse taper.



21: 2018/00395. 22: 1/19/2018. 43: 5/14/2021

51: A61K; A61P

71: Bayer Pharma Aktiengesellschaft

72: LERCHEN, Hans-Georg, REBSTOCK, Anne-Sophie, CANCHO GRANDE, Yolanda, MARX, Leo, STELTE-LUDWIG, Beatrix, TERJUNG, Carsten, MAHLERT, Christoph, GREVEN, Simone, SOMMER, Anette, BERNDT, Sandra

33: EP(DE) 31: 15173102.3 32: 2015-06-22

**54: BINDER-DRUG CONJUGATES (ADCs) AND BINDER-PRODRUG CONJUGATES (APDCs) HAVING ENZYMATICALLY CLEAVABLE GROUPS**

00: -

The invention relates to novel antibody prodrug conjugates (ADCs) in which antibodies with inactive precursor compounds of kinesin spindle protein-inhibitors are conjugated, and to antibody drug conjugate (ADCs) and to a method for producing said APDCs or ADCs.

21: 2018/00403. 22: 1/19/2018. 43: 5/14/2021

51: A61K; A61P; C07K

71: Janssen Biotech, Inc.

72: DORSHI, Parul, LOKHORST, Henk M., MUTIS, Tuna

33: US 31: 62/182,699 32: 2015-06-22

**54: COMBINATION THERAPIES FOR HEME MALIGNANCIES WITH ANTI-CD38 ANTIBODIES AND SURVIVIN INHIBITORS**

00: -

The present invention relates to combination therapies for heme malignancies with anti-CD38 antibodies and survivin inhibitors.

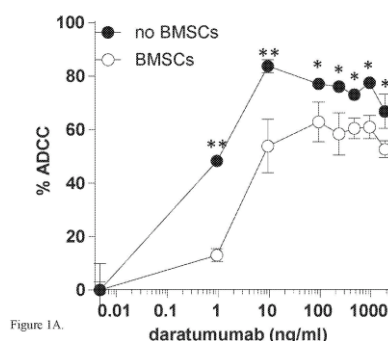


Figure 1A.

21: 2018/00416. 22: 19/01/2018. 43: 5/24/2021

51: C07D; A61K

71: TURNING POINT THERAPEUTICS, INC.

72: CUI, JINGRONG JEAN, LI, YISHAN, ROGERS, EVAN W, ZHAI, DAYONG, DENG, WEI, HUANG, ZHONGDONG

33: US 31: 62/302,231 32: 2016-03-02

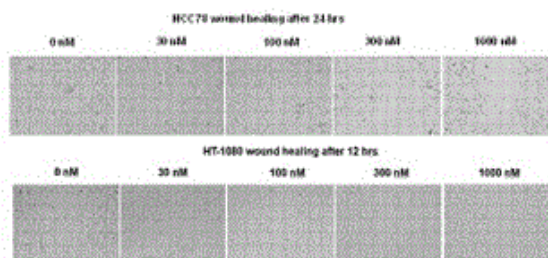
33: US 31: 62/195,081 32: 2015-07-21

**54: CHIRAL DIARYL MACROCYCLES AND USES THEREOF**



00: -

This disclosure relates to the use of certain diaryl macrocycle compounds, specifically (7S13R)-11 fluoro-7,13-dimethyl-6,7,13,14-tetrahydro-1,15-ethenopyrazolo[4,3-f][1,4,8,10]benzoxatriazacyclotridecin-4(5H)-one in the treatment of disease in mammals. This disclosure also relates to compositions including such compounds, and to methods of using such compositions in the treatment of diseases in mammals, especially in humans.



21: 2018/00436. 22: 22/01/2018. 43: 5/14/2021  
51: A24F; A61M

71: RAI STRATEGIC HOLDINGS, INC.

72: O'BRIEN, John Brice, AMPOLINI, Frederic  
Philippe, ROGERS, James William

33: US 31: 14/802,667 32: 2015-07-17

#### **54: CONTAINED LIQUID SYSTEM FOR REFILLING AEROSOL DELIVERY DEVICES**

00: -

A contained liquid system for use with a refillable aerosol delivery device (100) is provided. The contained liquid system includes an aerosol delivery device having an adapter therein for receiving aerosol precursor composition within a reservoir of the aerosol delivery device, and a container (300) of aerosol precursor composition having a corresponding adapter therein for transferring aerosol precursor composition from the container. The adapter and the corresponding adapter are removably, sealably connectable for refilling the aerosol delivery device with aerosol precursor composition. The adapter engages a valve of the corresponding adapter and includes a body defining separate and distinct filling airflow ports. The filling port transfers aerosol precursor composition from the container into the aerosol delivery device. The airflow port enables a flow of air through at least the portion of the aerosol delivery device when the adapter and valve are disengaged.

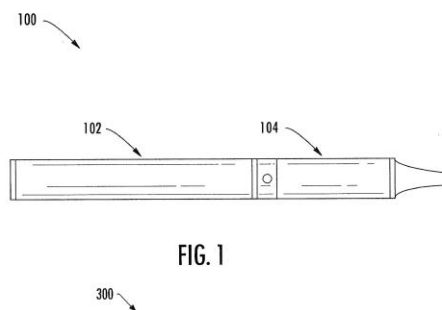


FIG. 1

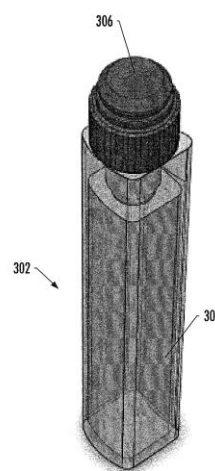


FIG. 3

21: 2018/00532. 22: 1/25/2018. 43: 5/14/2021  
51: B66C; B66D

71: OLKO-Maschinentechnik GmbH

72: KÖSTERKE, Uwe, WEST, Markus

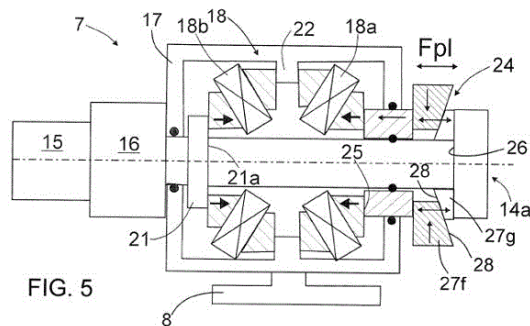
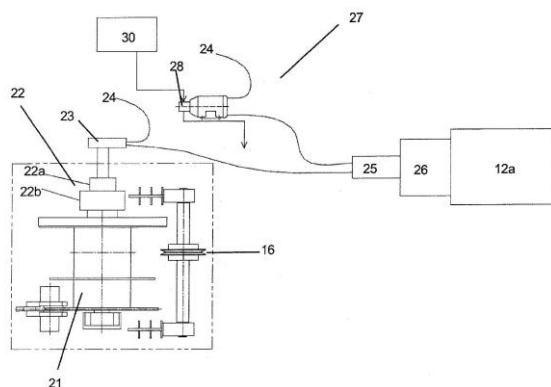
33: DE 31: 10 2015 116 505.8 32: 2015-09-29

#### **54: MOBILE SHAFT WINCH**

00: -

The invention relates to a mobile shaft winch, comprising: a carrier vehicle having a vehicle drive, which has an internal combustion engine, and having a rigid main frame and a rotary platform, which is arranged on the main frame by means of a rotary connection; a drum winch, which is arranged on the rotary platform and which has a cable drum driven by a winch drive, designed for winding and unwinding a conveying cable; and a control system for the winch drive. According to the invention, in order to create a mobile shaft winch that requires less installation space and has less weight and a

simpler construction, according to the invention the winch drive exclusively comprises an electric motor,  
 - the control system is designed for selective operation of the electric motor while connected to a power network or while connected to an electric generator, - an internal combustion engine, in particular the internal combustion engine of the vehicle drive, drives the generator, and - the generator and the internal combustion engine are arranged on the carrier vehicle.



21: 2018/00578. 22: 1/29/2018. 43: 5/14/2021  
 51: E21B

71: Sandvik Mining and Construction Oy  
 72: SILTALA, Hannu  
 33: EP(FI) 31: 17161506.5 32: 2017-03-17

#### **54: ROTATION UNIT AND METHOD OF ADJUSTING BEARING CLEARANCE**

00: -

The invention relates to a rotation unit and method for adjusting bearing clearance. The rotation unit (7) comprises a shaft (14) that is rotated around its longitudinal axis by means of a rotating motor (15). The shaft is supported to a body (17) of the rotation unit by means of a bearing assembly (18). The rotation unit further comprises adjusting means for generating pre-load for the bearing assembly and adjusting bearing clearance. The adjusting means comprises an axial adjusting space (24) and at least one pair of half-elements (27) arranged between axial adjusting surfaces (25, 26) limiting the adjusting space.

21: 2018/00591. 22: 1/29/2018. 43: 5/14/2021  
 51: A61K; A61P

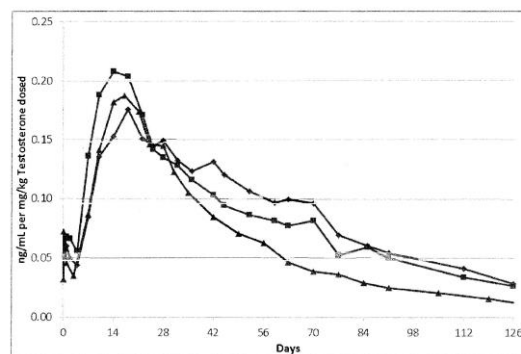
71: Tolmar International Limited  
 72: DOWNING, John Milton, SAXENA, Vipin, MIDDLETON, John

33: US 31: 62/200,198 32: 2015-08-03

#### **54: LIQUID POLYMER DELIVERY SYSTEM FOR EXTENDED ADMINISTRATION OF DRUGS**

00: -

Liquid polymer pharmaceutical compositions with a biodegradable liquid polyester that has a carboxylic acid end group, a biocompatible solvent, and an active pharmaceutical agent are useful for administration into the body to provide extended long term release of the drug.



21: 2018/00633. 22: 30/01/2018. 43: 5/14/2021  
 51: A01N; A01P

71: IPABC LTD  
 72: SCHWARZ, Ulrich W., SAILO-LEBEAU, Gracy  
 33: GB 31: 1512135.3 32: 2015-07-10

#### **54: BIODEGRADABLE ANTIMICROBIAL COMPOSITIONS AND USES THEREOF TO COMBAT MICROORGANISMS**

00: -

The invention provides a method for combating contamination of a site with a microorganism, said method comprising contacting the site and/or the

microorganism with an antimicrobial aqueous composition comprising a decylglucoside at a concentration of about 2mM to about 40mM and at least one C1 to C8 carboxylic acid, or a water-soluble salt thereof, at a concentration of about 1μM to about 100mM. The invention further provides such compositions, concentrated forms thereof, dry solid forms thereof and methods and kits for preparing such compositions

21: 2018/00699. 22: 2/2/2018. 43: 6/14/2021

51: H02K

71: ALSTOM TRANSPORT TECHNOLOGIES

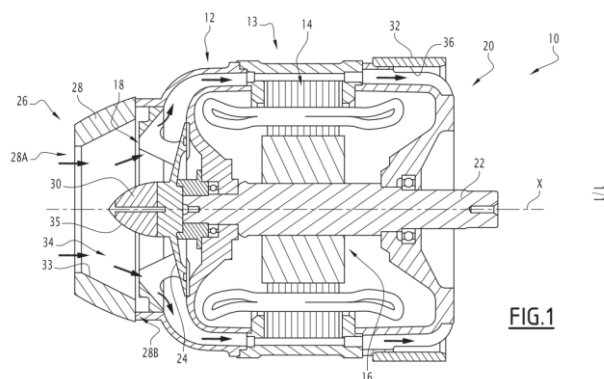
72: MAS, Thomas

33: FR 31: 17 50918 32: 2017-02-03

**54: A NOISELESS SELF-VENTILATED MOTOR, IN PARTICULAR FOR A RAILWAY VEHICLE**

00: -

The self-ventilated motor (10) comprises a casing (12) having an air inlet opening (18) and an air outlet opening (20) and delimiting an air passage between the air inlet opening (18) and the air outlet opening (20), drive means (13) comprising a shaft (22) housed in the casing (12), a ventilation propeller (24) connected to the shaft (22) upon rotation and housed in the air passage, and a noise reduction device (26). The noise reduction device (26) comprises a first noise reduction member (28), attached to the casing (12) at the air inlet opening (18), a second noise reduction member (30) arranged on the ventilation propeller (24), and a third noise reduction member (32) fixed to the casing (12) at the air outlet opening (20).



21: 2018/01167. 22: 2/20/2018. 43: 5/14/2021

51: B05D; B42D

71: SICPA HOLDING SA

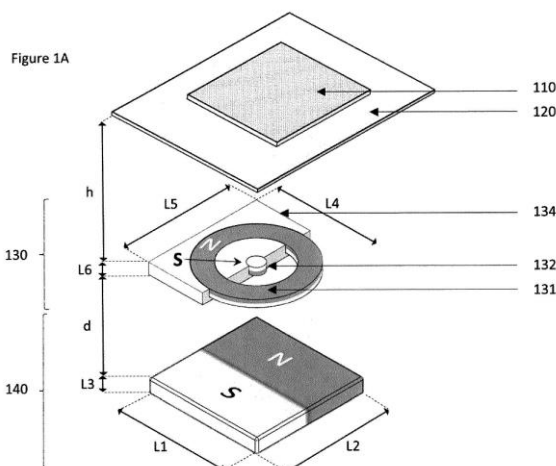
72: SCHMID, Mathieu, DESPLAND, Claude-Alain, LOGINOV, Evgeny

33: EP(CH) 31: 15193837.0 32: 2015-11-10

**54: APPARATUSES AND PROCESSES FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING ORIENTED NON-SPHERICAL MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES**

00: -

The present invention relates to the field of magnetic assemblies and processes for producing optical effect layers (OEL) comprising magnetically oriented non-spherical magnetic or magnetizable pigment particles on a substrate. In particular, the present invention relates magnetic assemblies and processes for producing said OELs as anti-counterfeit means on security documents or security articles or for decorative purposes.



21: 2018/01196. 22: 2/21/2018. 43: 4/30/2021

51: A61K; A61P; C07F; C07H

71: Metro International Biotech, LLC

72: NORMINGTON, Karl D., SINCLAIR, David A., LIVINGSTON, David, McKEARIN, James M., SZCZEPANKIEWICZ, Bruce, KREMSKY, Jonathan N.

33: US 31: 62/201,447 32: 2015-08-05

**54: NICOTINAMIDE MONONUCLEOTIDE DERIVATIVES AND THEIR USES**

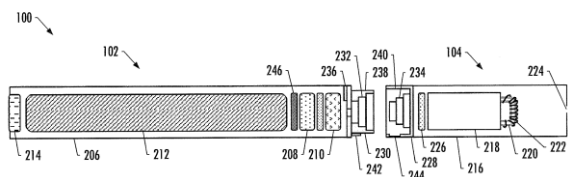
00: -

The invention relates to compositions of nicotinamide mononucleotide derivatives and their methods of use. The invention also relates to methods of preparing nicotinamide mononucleotide derivatives. The invention relates to pharmaceutical

compositions and nutritional supplements containing a nicotinamide mononucleotide derivative. The invention relates to methods of using nicotinamide mononucleotide derivatives that promote the increase of intracellular levels of nicotinamide adenine dinucleotide (NAD<sup>+</sup>) in cells and tissues for treating diseases and improving cell and tissue survival.

21: 2018/01220. 22: 22/02/2018. 43: 6/14/2021  
51: A24F; A61M  
71: RAI STRATEGIC HOLDINGS, INC.  
72: LAMB, Wilson, Christopher, HENRY, Raymond, Charles, Jr., ROGERS, Terrence, E., AMPOLINI, Frederic Philippe  
33: US 31: 14/808,466 32: 2015-07-24  
**54: RADIO-FREQUENCY IDENTIFICATION (RFID) AUTHENTICATION SYSTEM FOR AEROSOL DELIVERY DEVICES**

00: -  
A control body (102) and cartridge (104) that are coupleable with one another to form an aerosol delivery device (100) are provided. The control body comprises a control component (208) and an RFID reader (306) contained within at least one housing (206). The cartridge comprises at least one heating element (222) and an RFID tag (314) contained within at least one housing (216). The RFID reader of the control body is coupled to the control component of the control body and configured to communicate with the RFID tag of the cartridge upon coupling of the control body with the cartridge. The control component of the control body is configured to authorize the cartridge for use with the control body based at least in part on communication between the RFID reader and the RFID tag.

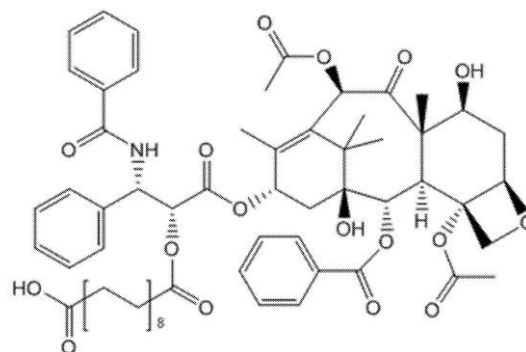


21: 2018/01482. 22: 3/2/2018. 43: 5/10/2021  
51: A61K; C07D  
71: The Regents of the University of California, Vybyl Holdings, Inc.

72: CALLMANN, Cassandra E., THOMPSON, Matthew P., LEGUYADER, Clare L. M., GIANNESCHI, Nathan C., BERTIN, Paul A.  
33: US 31: 62/222,059 32: 2015-09-22

**54: MODIFIED CYTOTOXINS AND THEIR THERAPEUTIC USE**

00: -  
The present disclosure generally provides compounds useful for treating cancer. In some aspects, the disclosure provides small-molecule cytotoxins that are chemically modified to include one or more moieties that include hydrophobic portions. In some embodiments, the disclosure provides small-molecule cytotoxins that are chemically modified with fatty acid-containing moieties. In some aspects, the disclosure provides compositions, such as pharmaceutical compositions, that include such modified small-molecule cytotoxins and a protein. In some embodiments, the protein is albumin or an albumin mimetic. Further, the disclosure provides various uses of these compounds and compositions.



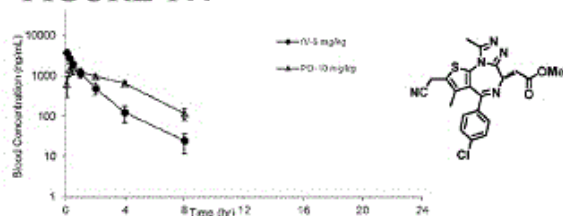
21: 2018/01548. 22: 06/03/2018. 43: 5/24/2021  
51: A61K; C07D  
71: DANA-FARBER CANCER INSTITUTE, INC.  
72: BRADNER, JAMES E, QI, JUN, TANAKA, MINORU, BUCKLEY, DENNIS  
33: US 31: 62/217,521 32: 2015-09-11  
**54: CYANO THIENOTRIAZOLODIAZEPINES AND USES THEREOF**

00: -  
The present invention provides compounds and pharmaceutically compositions thereof. The compounds and compositions are binders of bromodomains and/or bromodomain-containing proteins (e.g., bromo and extra terminal (BET) proteins). Also provided are methods, uses, and kits



using the compounds and pharmaceutical compositions for inhibiting the activity (e.g., increased activity) of bromodomains and/or bromodomain-containing proteins and for treating and/or preventing in a subject diseases associated with bromodomains or bromodomain-containing proteins (e.g., proliferative diseases, cardiovascular diseases, viral infections, fibrotic diseases, metabolic diseases, endocrine diseases, and radiation poisoning). The compounds, pharmaceutical compositions, and kits are also useful for male contraception.

FIGURE 1A



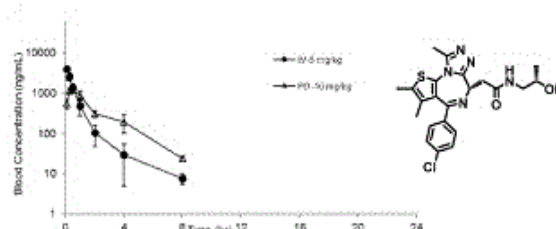
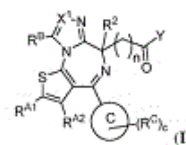
21: 2018/01549. 22: 06/03/2018. 43: 5/10/2021  
51: A61K; C07D  
71: DANA-FARBER CANCER INSTITUTE, INC.  
72: BRADNER, JAMES E, QI, JUN, TANAKA, MINORU

33: US 31: 62/217,544 32: 2015-09-11

#### 54: ACETAMIDE THIENOTRIAZOLDIAZEPINES AND USES THEREOF

00: -

The present invention provides compounds of Formula (I), and pharmaceutically compositions thereof. Compounds of Formula (I) are binders of bromodomains and/or bromodomain-containing proteins (e.g., bromo and extra terminal (BET) proteins). Also provided are methods, uses, and kits using the compounds and pharmaceutical compositions for inhibiting the activity (e.g., increased activity) of bromodomains and/or bromodomain-containing proteins and for treating and/or preventing in a subject diseases associated with bromodomains or bromodomain-containing proteins (e.g., proliferative diseases, cardiovascular diseases, viral infections, fibrotic diseases, metabolic diseases, endocrine diseases, and radiation poisoning). The compounds, pharmaceutical compositions, and kits are also useful for male contraception.



21: 2018/01657. 22: 09/03/2018. 43: 5/24/2021

51: A61K; C07K

71: BIOMARIN PHARMACEUTICAL INC.

72: BUNTING, STUART, COLOSI, PETER CAMERON, PUNGOR, ERNO

33: US 31: 62/232,242 32: 2015-09-24

33: US 31: 62/365,544 32: 2016-07-22

33: US 31: 62/323,182 32: 2016-04-15

#### 54: ADENO-ASSOCIATED VIRUS FACTOR VIII VECTORS, ASSOCIATED VIRAL PARTICLES AND THERAPEUTIC FORMULATIONS COMPRISING THE SAME

00: -

The invention provides adeno-associated virus (AAV) Factor VIII (FVIII)- encoding/expressing vectors and virus, including AAV FVIII vectors with high expression activity and AAV FVIII vectors that express full-length or truncated functional FVIII protein. The invention also relates to methods of making the herein described AAV FVIII vectors, recombinant AAV FVIII virus particles comprising or expressing such vectors, associated pharmaceutical formulations comprising the same and therapeutic uses thereof.

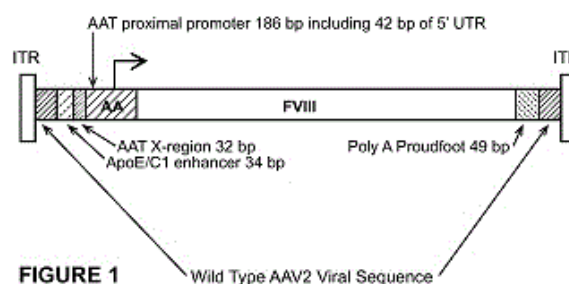


FIGURE 1

Wild Type AAV2 Viral Sequence



21: 2018/01669. 22: 12/03/2018. 43: 5/10/2021  
 51: A61K; C07K  
 71: EAGLE BIOLOGICS, INC.  
 72: WEIGHT, ALISHA K, LARSON, ALYSSA M, LANGER, ROBERT S, KLIBANOV, ALEXANDER M, LOVE, KEVIN, CRANE, ALAN  
 33: US 31: 61/940,227 32: 2014-02-14  
 33: US 31: 61/988,005 32: 2014-05-02  
 33: US 31: 62/026,497 32: 2014-07-18  
 33: US 31: 61/943,197 32: 2014-02-21  
 33: US 31: 61/876,621 32: 2013-09-11  
 33: US 31: 62/030,521 32: 2014-07-29  
 33: US 31: 62/008,050 32: 2014-06-05  
 33: US 31: 61/946,436 32: 2014-02-28

#### **54: LIQUID PROTEIN FORMULATIONS CONTAINING IONIC LIQUIDS**

00: -

Concentrated, low-viscosity, low-volume liquid pharmaceutical formulations of proteins have been developed. Such formulations can be rapidly and conveniently administered by subcutaneous or intramuscular injection, rather than by lengthy intravenous infusion. These formulations include low-molecular-weight and/or high-molecular-weight proteins, such as mAbs, and viscosity-reducing ionic liquids.

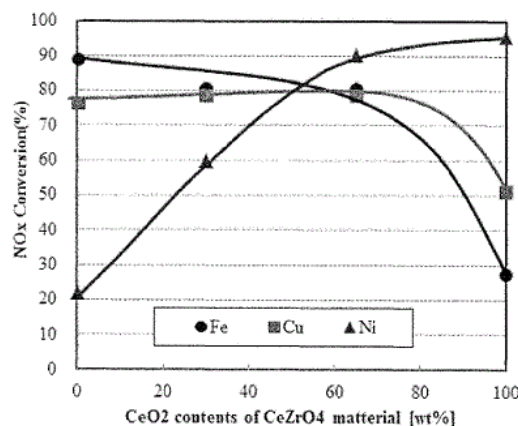
21: 2018/01821. 22: 3/19/2018. 43: 5/10/2021  
 51: B01J F01N  
 71: BASF CORPORATION, N.E. CHEMCAT CORPORATION  
 72: ZHENG, Xiaolai, DEEBA, Michel, YANG, Xiaofan, FU, Qi, WASSERMANN, Knut, NAGATA, Makoto, KANNO, Yasuharu, NAKAYAMA, Hiroki  
 33: US 31: 62/208,136 32: 2015-08-21

#### **54: EXHAUST GAS TREATMENT CATALYSTS**

00: -

Described are catalysts effective to abate NO<sub>x</sub>, hydrocarbons, and carbon monoxide from a gasoline engine exhaust gas. Such catalysts include a substrate having a first and second material disposed thereon, the first material effective to catalyze selective catalytic reduction of nitrogen oxides in the presence of ammonia and the second material effective to abate hydrocarbons and carbon monoxide, the first material comprising a molecular sieve promoted with copper and/or iron in a low loading, the second material comprising at least one oxide of Ni, Fe, Mn, Co, and Cu on a support selected from oxides of Ce, Ce-Zr, Zr, Mn, Pr and combinations thereof. Also described are gasoline

engine exhaust gas treatment systems and methods of treating exhaust gas from a gasoline engine.



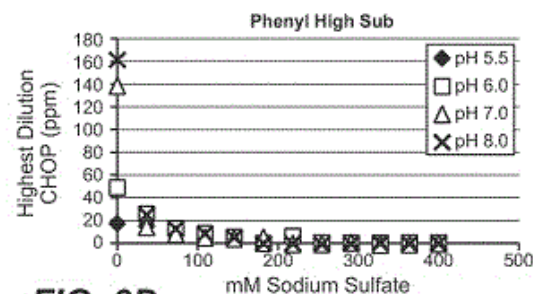
21: 2018/01849. 22: 20/03/2018. 43: 5/14/2021  
 51: A61K  
 71: GENENTECH, INC.  
 72: YU, X CHRISTOPHER, FISCHER, SALOUMEH KADKHODAYAN, FISHER, SUSAN C, LOWE, JOHN, NAIM, ATIA, SANCHEZ, AILEN M, TESKE, CHRISTOPHER A, VANDERLAAN, MARTIN, AMURAO, ANNAMARIE, FRANKLIN, JAYME, VICTA, CORAZON

33: US 31: 61/877,517 32: 2013-09-13

#### **54: METHODS AND COMPOSITIONS COMPRISING PURIFIED RECOMBINANT POLYPEPTIDES**

00: -

Purified recombinant polypeptides isolated from Chinese hamster ovary host cells, including antibodies, such as therapeutic antibodies, and methods of making and using such polypeptides are provided.



**FIG. 3D**

21: 2018/01919. 22: 22/03/2018. 43: 5/10/2021  
 51: G01V; G01N; G01R

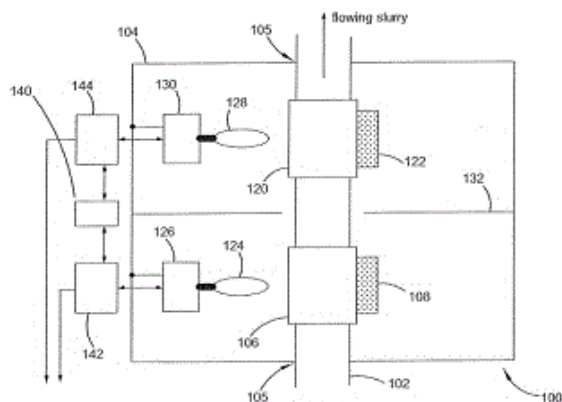
71: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION  
 72: MILJAK, DAVID GEOFFREY, COGHILL, PETER JOHN, LEHMANN-HORN, JOCHEN, LOVRIC, BOJAN, YONG, RICHARD

33: AU 31: 2015903417 32: 2015-08-24

**54: AN APPARATUS FOR ON-LINE DETECTION OF MAGNETIC RESONANCE SIGNALS FROM A TARGET MATERIAL IN A MINERAL SLURRY**

00: -

An apparatus is provided for on-line detection of magnetic resonance signals from a target in a mineral slurry. The apparatus comprises (i) an electrically conductive housing, (ii) an electrically non-conducting (ENC) pipe to enable throughput of a mineral slurry and configured to pass through the electrically conductive housing, (iii) a first primary coil configured to encircle a section of the ENC pipe within the housing, the or each primary coil defining a measurement zone, (iv) a capacitor unit coupled to a terminal of the or each respective primary coil, where a value of each capacitor unit value is selectable so that a primary coil series resonance is formed close to the value of the magnetic resonance frequency of the target, (v) an RF transmitter operable to transmit a signal to one or more drive coil electrical networks, where an operating frequency of the RF transmitter is set approximately equal to the magnetic resonance frequency of the target, (vi) at least a first drive coil and an associated drive coil electrical network, where the number of drive coils equals the number of primary coils, and where each drive coil and associated drive coil electrical network is positioned relative to a single primary coil to magnetically couple said drive coil to said primary coil, (vii) an impedance monitor coupled to each drive coil electrical network and operable to measure a complex input impedance of said drive coil electrical network; and (viii) an RF receiver adapted to receive from the first or each drive coil electrical network, magnetic resonance signals from the target, the RF receiver forming an output signal of detected signals.



21: 2018/02016. 22: 3/27/2018. 43: 4/30/2021

51: A01N B01J A01P

71: BASF AGRO B.V.

72: NOLLER, Bastian, Marten, FUCHS, Yannick, SIMON, Anja, SOWA, Christian

33: EP 31: 15183734.1 32: 2015-09-03

**54: MICROPARTICLE COMPOSITIONS COMPRISING SAFLUFENACIL**

00: -

The present invention relates to microparticle compositions comprising saflufenacil, to a method of their preparation and to the use of these microparticle compositions for controlling undesired vegetation. In the microparticle compositions saflufenacil is present in the form of microparticles, which comprise solid saflufenacil, which is surrounded or embedded by an aminoplast polymer.

21: 2018/02080. 22: 28/03/2018. 43: 5/10/2021

51: A61J

71: TANSY PHARMACEUTICAL GROUP CO., LTD.

72: YAN, KAIJING, SUN, XIAOBING, RONG, CHANGSHENG, CAI, XUEFEI, WANG, LIANG

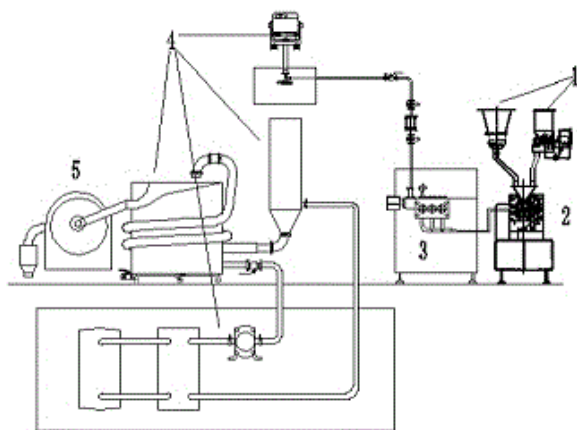
33: CN 31: 2015105984406 32: 2015-09-18

**54: INTELLIGENT DRIPPING PILL MACHINE FOR CONTINUOUS LIQUID SOLIDIFICATION**

00: -

An intelligent dripping pill machine for continuous liquid solidification comprises: a feeding device (1), a material combining device (2), a homogenizing device (3), a dripping device (4) and a de-oiling device (5) sequentially connected via a transmission channel. The intelligent dripping pill machine removes, via high-speed centrifugation, a cooling liquid attached to dripping pills, and each component device is connected compactly, thereby achieving a continuous manufacturing operation, and reducing

an occupied space of the devices as a whole while ensuring the yield of the dripping pills.



21: 2018/02083. 22: 28/03/2018. 43: 5/10/2021  
51: A61J  
71: TASLY PHARMACEUTICAL GROUP CO., LTD.  
72: YAN, KAIJING, SUN, XIAOBING, RONG,  
CHANGSHENG, CAI, XUEFEI, WANG, LIANG  
33: CN 31: 2015105985911 32: 2015-09-18

#### **54: INTELLIGENT CONTINUOUS MANUFACTURING METHOD VIA LIQUID COOLING OF DRIPPING PILLS**

00: -

An intelligent continuous manufacturing method via liquid cooling of dripping pills comprises the following steps: (1) feeding: weighing and transferring multiple materials respectively; (2) material combining: performing staged heating on the materials transferred in step (1), and mixing the same to obtain a material mixture, wherein an RSD of an effective ingredient in the material mixture = 5%; (3) homogenizing: pressurizing the material mixture obtained in step (2), and increasing the temperature, so as to obtain a homogenized material having the RSD of the effective ingredient in the material mixture = 5%; (4) dripping: performing vibration dripping on the homogenized material obtained in step (3) to obtain dripping pills, delivering the dripping pills into a cooling liquid to be cooled and then transferred; and (5) de-oiling: removing the cooling liquid on surfaces of the dripping pills obtained in step (4) via tilting centrifugation. The manufacturing method not only shortens the manufacturing process, but also ensures the dripping pill product to be more stable and homogeneous. In addition, high-speed centrifugation

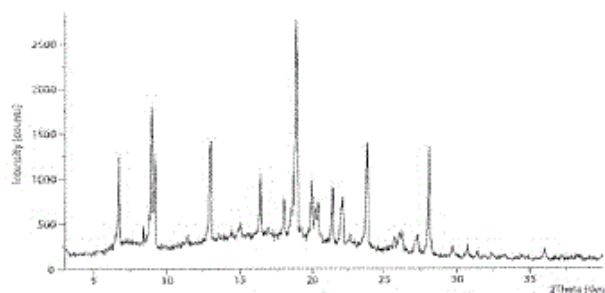
is used to reasonably de-oil the dripping pills to prevent contamination of the dripping pills and improve the circulation utilization rate of the cooling liquid.

21: 2018/02088. 22: 28/03/2018. 43: 5/10/2021  
51: A61K; A61P  
71: AGIOS PHARMACEUTICALS, INC.  
72: AGRESTA, SAMUEL V  
33: US 31: 62/242,256 32: 2015-10-15  
33: US 31: 62/255,194 32: 2015-11-13

#### **54: COMBINATION THERAPY FOR TREATING MALIGNANCIES**

00: -

Provided are methods and compositions for treating AML in patients carrying an IDH2 mutation using a combination of an inhibitor of a mutant IDH2 enzyme and an AML induction and consolidation therapy.



21: 2018/02133. 22: 03/04/2018. 43: 5/14/2021  
51: B03C  
71: MASSACHUSETTS INSTITUTE OF  
TECHNOLOGY  
72: DAMAK, MAHER, MAHMOUDI, SEYED REZA,  
VARANASI, KRIPA K  
33: US 31: 62/233,499 32: 2015-09-28  
**54: SYSTEMS AND METHODS FOR COLLECTING  
A SPECIES**

00: -

Systems and methods related to the collection of a species from a gas stream are generally provided. The systems and methods described herein may allow for collection of a species such as a fluid (e.g., water) with a relatively high collection efficiency. Such systems and methods may be useful in various applications including, for example, fog collection. In some embodiments, the systems and methods enhance water collection from airborne fog to produce usable water. Advantageously, the methods described herein may, in some cases, incorporate

ions into the gas stream such that the species present in the gas stream follows electric field lines and/or are attracted to a grounded (or charged) collector. Advantageously, the systems and methods described herein may suppress the adverse effects of natural conditions such as the velocity and direction of the wind.

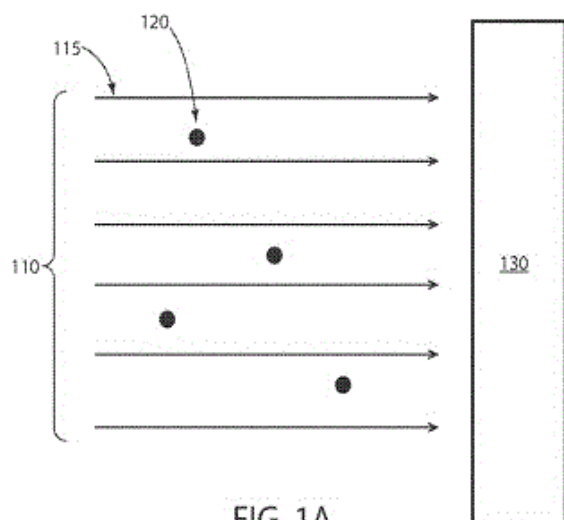
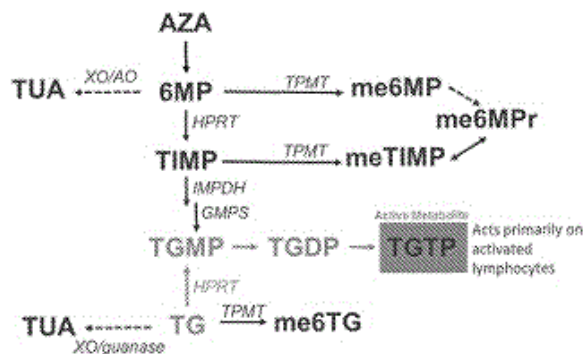


FIG. 1A



21: 2018/02380. 22: 11/04/2018. 43: 5/14/2021  
 51: B65D; B01D; G01N; C12M  
 71: EIKEN KAGAKU KABUSHIKI KAISHA  
 72: SHINDOME, TSUYOSHI, NATSUME, WAKA  
 33: JP 31: 2015-217667 32: 2015-11-05

#### 54: DISCHARGE MEMBER WITH FILTER

00: -

Provided is a discharge member with a filter, wherein the discharge member: enables a filtrate to be dripped into a dripping container while filtering a suspension; enables an excess to be suctioned when the dripped amount is excessive; does not lose dripping performance or filtering performance when pouring a certain amount of the filtrate in the dripping container; and enables a suction operation for suctioning an excess to be performed suitably. A filter F provided in a discharge member 4 with a filter is a composite filter in which a pre-filter PF comprising a continuous porous form that softens at least in a wet state is arranged on a filtering surface side of a membrane filter MF.

21: 2018/02201. 22: 04/04/2018. 43: 5/14/2021

51: A61K; A61P

71: PRODRUGXTEND PTY LTD

72: FLORIN, TIMOTHY, POPAT, AMIRALI, JAMBHRUNKAR, SIDDHARTH

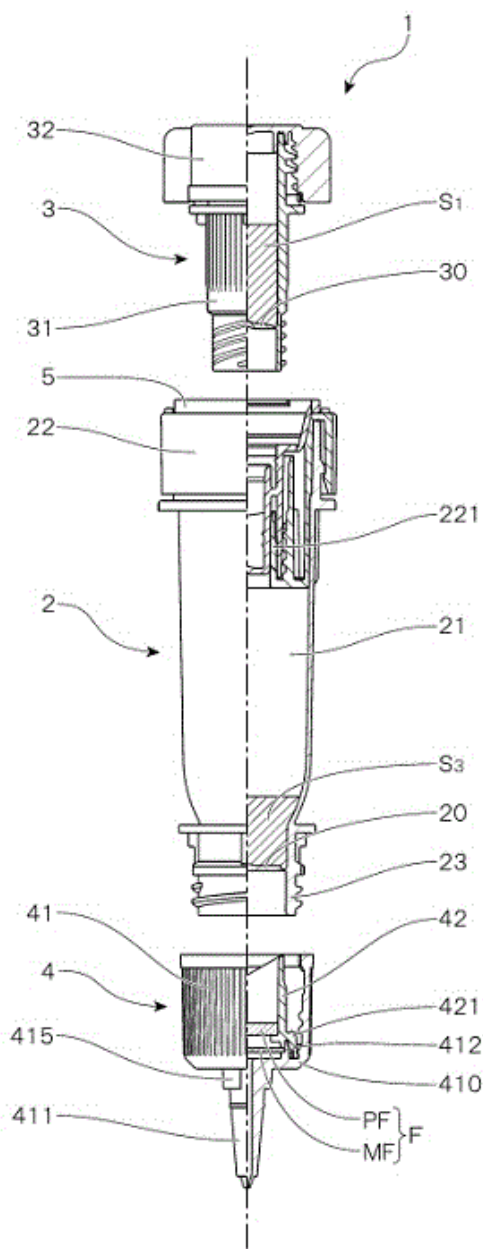
33: AU 31: 2016901896 32: 2016-05-20

33: AU 31: 2015903951 32: 2015-09-29

#### 54: NOVEL FORMULATION AND TREATMENT METHODS

00: -

The invention relates to pharmaceutical compositions comprising 6-thioguanidine (6-TG) wherein the composition is formulated for release of 6-TG in the distal intestine. Methods for treating a disease or condition of the distal ileum that responds to 6-TG wherein the 6-TG is released in the distal intestine are also disclosed.



21: 2018/02816. 22: 26/04/2018. 43: 5/14/2021  
 51: A61K  
 71: ONCOPEPTIDES AB  
 72: LINDBERG, JAKOB  
 33: GB 31: 1521217.8 32: 2015-12-01  
**54: MELFLUFEN DOSAGE REGIMENS FOR CANCER**

00: -

The present invention provides melflufen (melphalan flufenamide; L-Melphalanyl-4- fluoro-L-phenylalanine ethyl ester), or a salt thereof, for use in the treatment or prophylaxis of multiple myeloma, wherein a

dosage of melflufen (excluding the mass of any salt) is administered as a parenteral dosage at an infusion rate of 1.0 to 1.8 mg/min. Also provided is melflufen, or a salt thereof, for use in the treatment or prophylaxis of a cancer, for example a solid cancer, wherein a dosage of melflufen is administered as a parenteral dosage at an infusion rate less than 0.8 mg/min (for example 0.3 to 1.0 mg/min or for example 0.3 to 0.8 mg/min).

21: 2018/02831. 22: 30/04/2018. 43: 5/14/2021  
 51: A61K; A61P

71: PIERRE FABRE MEDICAMENT

72: JOUHANNEAUD, Alexandra, GOETSCH, Liliane, BROUSSAS, Matthieu, BEAU-LARVOR, Charlotte, CHAMPION, Thierry, ROBERT, Alain, HAEUW, Jean-François, RILATT, Ian, PEREZ, Michel

33: EP 31: 15306707.9 32: 2015-10-26

**54: COMPOSITION FOR THE TREATMENT OF IGF-1R EXPRESSING CANCER**

00: -

The present invention relates to a method for the treatment of IGF-IR expressing cancers as well as to a compositions and a kit for said treatment. From one aspect, the invention relates to the combined use of a first antibody for the determination of the IGF-IR status of a cancer and a second antibody used as an ADC for the treatment of said cancer.

21: 2018/02900. 22: 03/05/2018. 43: 5/14/2021  
 51: A61K

71: ANTONY, Benny

72: ANTONY, Benny

33: IN 31: 5691/CHE/2015 32: 2015-10-22

**54: A PROCESS TO ENHANCE THE BIOACTIVITY OF ASHWAGANDHA EXTRACTS**

00: -

The invention relates to an extract of Ashwagandha that exhibit enhanced bioactivity and bioavailability comprising of enriched withanolide glycosides and saponins; with negligible amount of alkaloids, withanolide aglycones and oligosaccharides. The extract as disclosed prepared from root, stems, leaves and whole plant of Ashwagandha further shows improved immunomodulatory activity, anti-inflammatory activity, anti stress activity, antidiabetic activity and sleep quality. The disclosure also provides a method of improving bioactivity of withanolide glycosides even at lower doses, by the



administration of an enteric coated formulation of extract of Ashwagandha to humans. The enteric coating protects the composition from hydrolysis in the acidic environment of the stomach to release the withanolide glycoside in neutral/ alkaline pH in gastrointestinal tract (GIT) thus enhancing the absorption. Further the process of preparation of the extract of Ashwagandha enriched with withanolide glycosides and saponins are disclosed along with various formulations.

21: 2018/03399. 22: 5/22/2018. 43: 5/6/2021

51: A61K; A61P

71: Obshchestvo S Ogranichennoy

Otvetstvennostyu "Normofarm"

72: RASTASHANSKIY, Viacheslav Valerievich, OSTRENKO, Konstantin Sergeevich

33: RU 31: 2015145777 32: 2015-10-23

**54: AGENT EXHIBITING ANTI-STRESS, ANXIOLYTIC AND ANTI-DEPRESSION ACTIVITY, AND COMPOSITION BASED THEREON**

00: -

An agent exhibiting anti-stress, anxiolytic and anti-depression activity, and a composition based thereon. The invention relates to the field of pharmaceutical science, and specifically to chemical compounds based on lithium salts, and particularly to substances exhibiting anti-stress, anxiolytic and anti-depression activity and may be used in medicine, veterinary science, and the pharmaceutical industry. The invention discloses the use of lithium ascorbate as an agent exhibiting anti-stress, anxiolytic and anti-depression activity. The claimed composition exhibiting anti-stress, anxiolytic and anti-depression activity and including lithium salt, contains pyridoxine hydrochloride, thiamine mononitrate, and, as the lithium salt, lithium ascorbate. The use of lithium ascorbate as an agent exhibiting anti-stress, anxiolytic and anti-depression activity and a composition based thereon allows for adding to the assortment of agents used for said purpose. The claimed agents have low toxicity and are highly effective.

21: 2018/03644. 22: 5/31/2018. 43: 6/11/2021

51: A01N

71: ORO AGRI, INC.

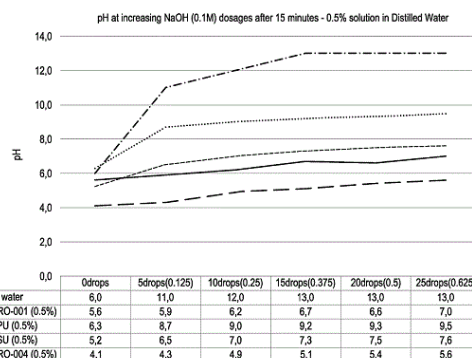
72: BERG, Paulo, Sergio, VANDERZYL, Jared, Lance, PULLEN, Melvin, Donovan, YARBROUGH, Mai

33: US 31: 14/936,467 32: 2015-11-09

**54: AN ADJUVANT**

00: -

A stable self emulsifiable alkylated oil based adjuvant with pH buffer capabilities, a method of preparing an adjuvant and use of adjuvant with industrial, turf, ornamental, horticultural and agricultural applications.



21: 2018/03737. 22: 6/6/2018. 43: 4/29/2021

51: F41C

71: RESCA, Franco

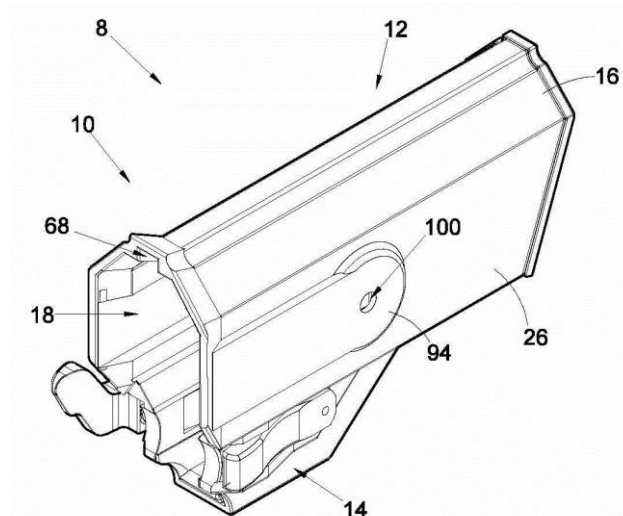
72: RESCA, Franco

33: ZA 31: 2017/03858 32: 2017-06-06

**54: Holster**

00: -

A holster arrangement (8) which includes a holster (10) which includes a body (12) having walls (16) defining a cavity (18) within which part of a firearm is receivable. The arrangement includes adaptor elements (17, 82) whereby the shape of the cavity and accordingly the firearm which can be received therein is adjustable. The holster further includes a retaining member for retaining a firearm in the holster, the force required to insert or remove a firearm from the holster being adjustable. The retaining member includes an arm element (112) and a nose element (114) which are manufactured separately and connected together to facilitate ready modification of the retaining member.



21: 2018/03979. 22: 6/14/2018. 43: 5/6/2021

51: A61K; A61P; C07K

71: Amgen Inc.

72: YIE, Junming, SHI, Donghui, LLOYD, David J., WANG, Jinghong, SIVITS Jr., Glenn N., VENIANT-ELLISON, Murielle M., KOMOROWSKI, Renee, AGRAWAL, Neeraj, BATES, Darren L., CLAVETTE, Brandon C. P., FOLTZ, Ian N., HO, Shu-yin, MURAWSKY, Christopher, MIN, Xiaoshan, WANG, Zhulun

33: US 31: 62/387,486 32: 2015-12-23

**54: METHOD OF TREATING OR AMELIORATING METABOLIC DISORDERS USING BINDING PROTEINS FOR GASTRIC INHIBITORY PEPTIDE RECEPTOR (GIPR) IN COMBINATION WITH GLP-1 AGONISTS**

00: -

Methods of treating metabolic diseases and disorders using an antigen binding protein specific for the GIPR polypeptide are provided. In various embodiments the metabolic disease or disorder is type 2 diabetes, obesity, dyslipidemia, elevated glucose levels, elevated insulin levels and diabetic nephropathy. In certain embodiments the antigen binding protein is administered in combination with a GLP-1 receptor agonist.

21: 2018/04429. 22: 7/2/2018. 43: 5/27/2021

51: A45C; A47B

71: AVITA MINING INNOVATIONS (PTY) LTD

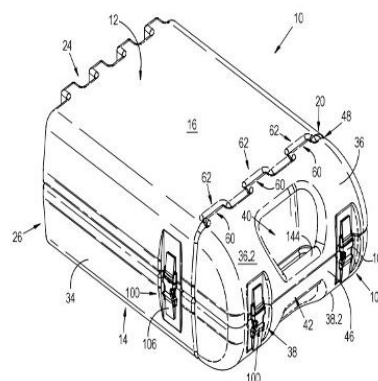
72: FARANA PRAMRAJH BOODHRAM

**54: RECONFIGURABLE CARRYING CASE**

00: -

This invention relates to a reconfigurable case comprising a first part and a second part, each part

having a substantially flat major face, and a pair of opposite first and second end walls and a pair of opposite side walls extending from the major face; a connection arrangement for connecting the first part to the second part so as to allow the case to be configured between a first configuration, wherein the first and second parts are folded onto each other so as to define an inner chamber of the carrying case, and a second configuration wherein the first and second parts are unfolded from each other; and a support arrangement for supporting the first and second parts on the ground when the carrying case is reconfigured in the second configuration, such that the major faces of both the first and second parts are arranged substantially parallel to the ground.



21: 2018/05375. 22: 8/13/2018. 43: 6/21/2021

51: A01N

71: Anhui University Of Science And Technology.

72: Xinghua, XIE

33: CN 31: 201810783750.9 32: 2018-07-17

**54: INSECTICIDAL AND BACTERICIDAL AEROSOL AND PREPARATION METHOD THEREOF**

00: -

The disclosure relates to an insecticidal and bactericidal aerosol. The insecticidal and bactericidal aerosol obtained by using nitrate, sulfur and a combustion improver as raw materials and appropriately proportioning various components can generate a large number of carbon monoxide, carbon dioxide, sulfur dioxide, and even carbon powder and sulfur powder after being ignited, and the fuming temperature is not too high; the above carbon monoxide and sulfur dioxide have a good killing effect on various pests and meanwhile have a promotion effect on growth of plants. Thus, the insecticidal and bactericidal aerosol provided by the

disclosure can promote growth of crops while playing a role in insecticidal and bactericidal effects. Moreover, in the insecticidal and bactericidal aerosol provided by the disclosure, a traditional Chinese medicine component having an insecticidal effect is added, and the fuming temperature of the insecticidal and bactericidal aerosol provided by the disclosure can be controlled within a certain range, thereby effectively avoiding a problem that in the prior art, the temperature is too high to result in change of properties of added traditional Chinese medicine so as to influence insecticidal effect.

21: 2018/05594. 22: 8/22/2018. 43: 6/22/2021  
51: E21D

71: RSC EKUSASA MINING (PTY) LTD

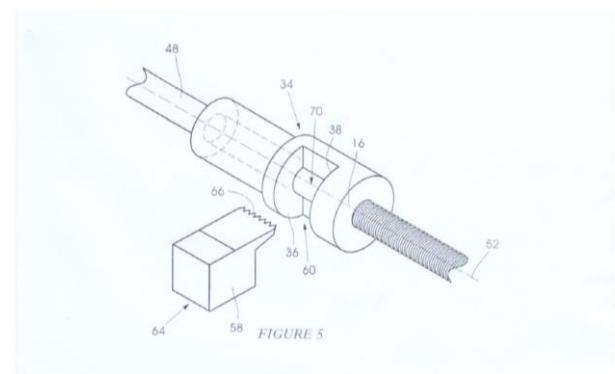
72: VIVIERS, ETIENNE

33: ZA 31: 2017/05697 32: 2017-08-22

**54: ROCK BOLT CABLE**

00: -

A cable which has a thread cut in it by a device, positioned adjacent an opening in a passage through which the cable is axially advanced while being rotated about a longitudinal axis.



21: 2018/05783. 22: 29/08/2018. 43: 6/14/2021  
51: C10G; C10L

71: ARQ IP LIMITED

72: SNAITH, Paul, UNSWORTH, John Francis

33: GB 31: 1605767.1 32: 2016-04-04

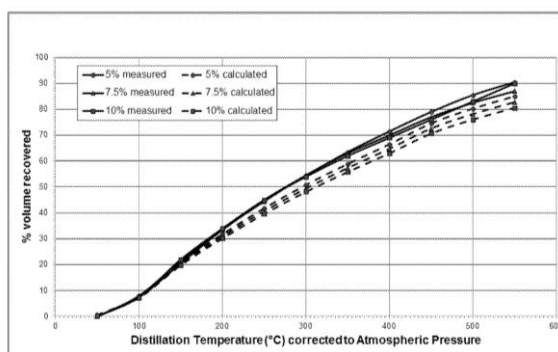
33: GB 31: 1607563.2 32: 2016-04-29

**54: SOLID-LIQUID CRUDE OIL COMPOSITIONS AND FRACTIONATION PROCESSES THEREOF**

00: -

A process for the production of a fractionated product is disclosed, comprising providing a solid hydrocarbonaceous material, wherein the material is in particulate form, and wherein at least about 90 % by volume (%v) of the particles are no greater than

about 500µm in diameter. The solid hydrocarbonaceous material is combined with an unrefined liquid hydrocarbonaceous material, such as crude oil, in order to create a combined solid-liquid blend; and the combined solid-liquid blend is subjected to fractionation in order to generate one or more fractionation products. Typically the solid hydrocarbonaceous material comprises coal, optionally the coal is ultrafine coal, and suitably the coal is comprised of microfine coal. The coal may be dewatered and deashed prior to combination with unrefined liquid hydrocarbonaceous material. Compositions and products of the process are further provided.



21: 2018/05850. 22: 30/08/2018. 43: 5/24/2021  
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

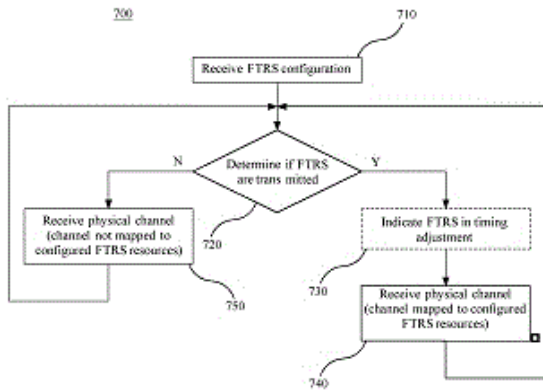
72: BALDEMAIR, ROBERT, PARKVALL, STEFAN, KARIPIDIS, ELEFThERIOS, SAHLIN, HENRIK

33: US 31: 62/302,769 32: 2016-03-02

**54: METHODS AND DEVICES OPERATING WITH FINE TIMING REFERENCE SIGNALS TRANSMITTED OCCASIONALLY**

00: -

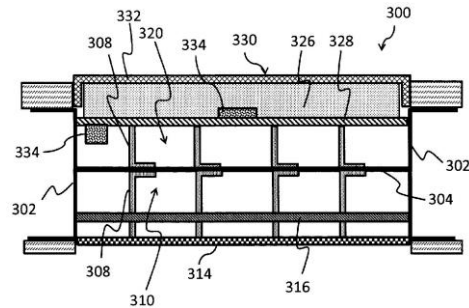
Methods and devices enable fine synchronization related to a data transmission on a physical channel. A fine timing reference signal is occasionally transmitted to the data transmission recipient using one of time-frequency resources in a recipient-specific pattern.



21: 2018/07095. 22: 10/24/2018. 43: 5/14/2021  
 51: C25B  
 71: De Nora Permelec Ltd  
 72: TAKAHASHI, Suguru, MADONO, Akihiro, KISHI,  
 Takamichi, ARIMOTO, Osamu  
 33: JP 31: 2016-089143 32: 2016-04-27  
**54: ELECTROLYZER**

00: -

Provided is an electrolyzer which has excellent durability against reverse current. This electrolyzer 330, having a positive electrode 314, a positive electrode chamber 310 which accommodates the positive electrode 314, a negative electrode 330, a negative electrode chamber 320 which accommodates the negative electrode 330, and a diaphragm which separates the positive electrode chamber 310 from the negative electrode chamber 320, is characterized in that a reverse current absorbing body 334, which is composed of a sintered body containing nickel, is disposed in at least one of the negative electrode chamber 320 and the positive electrode chamber 310, and the reverse current absorbing body 334 is electrically connected to at least one of the negative electrode 330 and the positive electrode 314 without being directly coupled with the negative electrode 330 and the positive electrode 314.

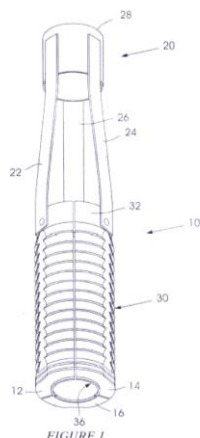


21: 2018/07470. 22: 11/7/2018. 43: 4/30/2021  
 51: A23D; C12G  
 71: Cargill, Incorporated  
 72: VAN BOKKELEN, Reginald, VAN  
 NIEUWENHUYZE, Lutgart  
 33: EP(BE) 31: 16164452.1 32: 2016-04-08  
**54: HYDROALCOHOLIC EMULSION**  
 00: -

The present invention relates to a hydroalcoholic emulsion comprising water, alcohol, fat and a plant-derived texturizer, wherein said plant-derived texturizer is in the form of fibers.

21: 2018/07801. 22: 11/20/2018. 43: 6/22/2021  
 51: E21D  
 71: RSC EKUSASA MINING (PTY) LTD  
 72: VIVIERS, Etienne  
 33: ZA 31: 2017/06376 32: 2017-09-21  
**54: EXPANSION SHELL**  
 00: -

A rock bolt mechanical anchor which includes three spaced apart leaves supported on a bale to define a zone in which a plug is located to engage with an elongate member having an elongate axis, the elongate member being rotatable about the elongate axis to move the plug relative to or between the leaves to displace the leaves radially apart relative to the axis into positions at which the leaves are engageable with a surface of a borehole and wherein at least one leaf has a formation configured to engage at the surface of the borehole to restrict rotation of the leaf relative to the plug.



21: 2018/08059. 22: 11/28/2018. 43: 4/30/2021

51: F16B; F16G; F16M; F21V

71: Gripple Limited

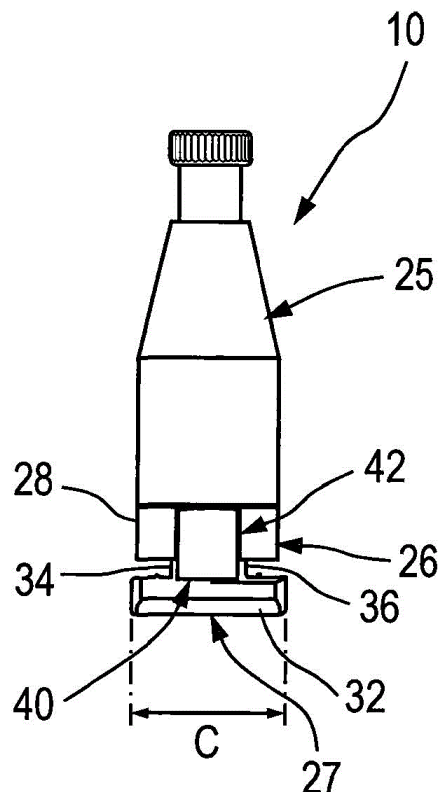
72: HEPWORTH, Robert

33: GB 31: 1612234.3 32: 2016-07-14

#### **54: IMPROVEMENTS IN OR RELATING TO CONNECTING DEVICES**

00: -

A connecting device (10) is provided for connecting a first article (14) to an elongate second article (24). The connecting device (10) comprises a securing arrangement (25) for securing the device (10) to the elongate second article (24), and an attaching arrangement (26) for attaching the connecting device to the first article (14). The attaching arrangement (26) is receivable through an opening (22) in the first article (14). The attaching arrangement (26) comprises a locking arrangement (40) for locking the connecting device (10) to the first article (14). The locking arrangement (40) comprises a detent formation (42) configured to be received by an opening in the first article (14).



21: 2018/08081. 22: 11/29/2018. 43: 6/18/2021

51: C06B

71: Anhui University Of Science And Technology

72: Xinghua, XIE, Heng YANG, Zengyuan LI ,

Huisheng ZHOU, Jun XIE, Shaobo YAN

Liangjie ZHANG, Yuqing FENG

33: CN 31: 201811301789.9 32: 2018-11-02

#### **54: METHOD FOR SYNTHESIZING NCA BATTERY MATERIAL BY EXPLOSION METHOD**

00: -

The present disclosure relates to a method for synthesizing an NCA battery material by an explosion method, comprising: first adding water to a nickel source, a cobalt source, and an aluminum source to obtain a mixed solution, then adding a density balance regulator to obtain a precursor solution, adding a detonating agent after heating, concentrating, and cooling the precursor solution to obtain a mixed explosive, collecting resulting explosion ash after detonation, and obtaining a nanometer grade NCA battery material with a uniform phase, good interparticle dispersity, and stable thermal and chemical properties successively through sieving, separation, drying, and calcination. Data show that the NCA battery material has a particle size of 50-100 nm, has a molar ratio of nickel



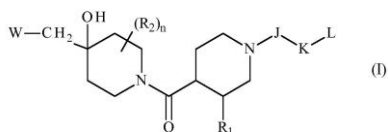
to cobalt to aluminum of 8:1.5:0.5, and is suitable for use as a positive electrode material for a lithium battery.

21: 2018/08286. 22: 12/7/2018. 43: 5/10/2021  
51: A61K; A61P; C07D  
71: Les Laboratoires Servier, Vernalis (R&D) Limited  
72: KOTSCHY, András, WÉBER, Csaba, VASAS, Attila, MOLNÁR, Balázs, KISS, Árpád, MACIAS, Alba, MURRAY, James Brooke, LEWKOWICZ, Elodie, GENESTE, Olivier, CHANRION, Maïa, DEMARLES, Didier, IVANSCHITZ, Lisa  
33: FR 31: 16/55387 32: 2016-06-10

**54: NEW (HETERO)ARYL-SUBSTITUTED-PIPERIDINYL DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM**

00: -

Compounds of formula (I) wherein R<sub>1</sub>, R<sub>2</sub>, J, K, L, n and W are as defined in the description. Medicaments.

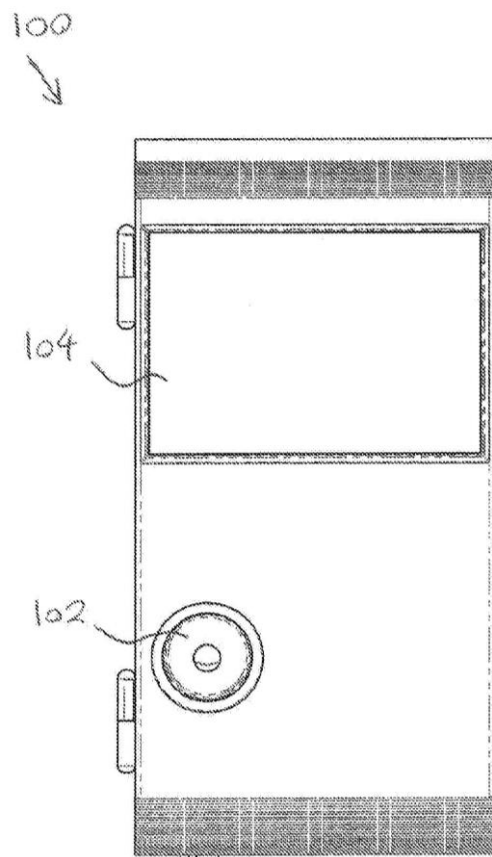


21: 2018/08380. 22: 12/12/2018. 43: 5/10/2021  
51: A61B  
71: Alcolizer Pty Ltd  
72: HUNT, Roger Alan, BROWN, James John  
33: AU 31: 2016901779 32: 2016-05-13

**54: A BREATH TESTER**

00: -

The present invention relates to a breath tester. The breath tester includes a sensor for sensing a mind-altering substance in breath from a blower (i.e. person blowing and providing a sample). A breath guide is provided for guiding the breath so that it is not returned to the blower. Advantageously, the guide guides the breath so that it is not returned to the blower to thereby minimise the likelihood of spread of infectious disease.



21: 2018/08521. 22: 18/12/2018. 43: 6/22/2021  
51: A61K; A61P  
71: PGR Developments (Pty) Ltd  
72: Ernst Albert Gerhard HARTWIG  
33: ZA 31: 2016/04018 32: 2016-06-14

**54: BUCHU PREPARATION**

00: -

The invention discloses a Buchu preparation, which includes a Buchu oil extract and being adapted to be used as a natural preservative. The natural preservative is adapted to be used in the cosmetics industry and/or food industry. The preparation is adapted to act as active ingredient and natural preservative. The preparation may be odourless and may be effective against *Aspergillus Niger*.

21: 2018/08545. 22: 12/19/2018. 43: 4/28/2021  
51: E04H; F03D; F05B  
71: Nordex Energy Spain, S.A.U.  
72: GARDUÑO ESTEBANEZ, Aitor, ARLABÁN GABEIRAS, Teresa, CAL HERNANDEZ, Alexandre, GARCÍA MAESTRE, Iván, ARÍSTEGUI LANTERO,

José Luis, GARCÍA SAYÉS, José Miguel, NÚÑEZ POLO, Miguel

33: EP(ES) 31: 17382863.3 32: 2017-12-19

#### **54: WIND TURBINE TOWER WITH REINFORCING ELEMENTS**

00: -

Wind turbine tower with reinforcing elements. The wind turbine tower comprises at least a first section (1) comprising at least two segments (2) defining at least two vertical joints (3) disposed between the at least two segments (2), at least two reinforcing elements (4) placed in each vertical joint (3), and at least an upper region (5) disposed above at least a lower region (6). The reinforcing elements (4) are configured to provide a first shear strength (1ss) in the upper region (5) and a second shear strength (2ss) in the at least lower region (6), the first shear strength and the second shear strength having different values and being enough to bear a maximum expected shear force in the vertical joints (3).

21: 2018/08581. 22: 12/19/2018. 43: 5/10/2021

51: C12N

71: Janssen Vaccines & Prevention B.V.

72: WUNDERLICH, Kerstin, VELLINGA, Jort

33: EP(NL) 31: 16175189.6 32: 2016-06-20

#### **54: POTENT AND BALANCED BIDIRECTIONAL PROMOTER**

00: -

The invention provides a bidirectional hCMV-rhCMV promoter and recombinant vectors and recombinant virus comprising the bidirectional hCMV-rhCMV promoter operably linked to a first transgene in one direction and to a second transgene in the opposite direction. The invention also provides methods of making and using such recombinant vectors and recombinant virus.

21: 2019/00064. 22: 04/01/2019. 43: 5/10/2021

51: G01N

71: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION

72: LINTERN, MELVYN

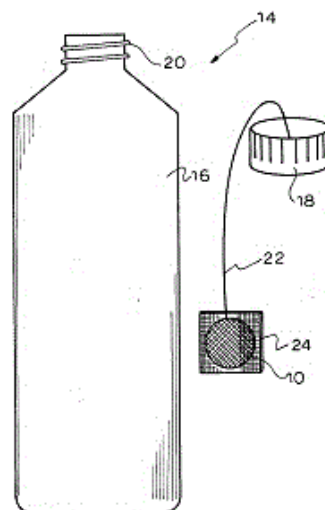
33: GB 31: 1611434.0 32: 2016-06-30

#### **54: METHOD AND SYSTEM FOR X-RAY FLUORESCENCE (XRF) ANALYSIS OF EXPLORATION SAMPLES**

00: -

A collector device for determining a metal in an exploration sample containing a concentration of the

metal not directly detectable by X-ray fluorescence (XRF), comprises an adsorbent material capable of concentrating metal from a digestion mixture produced by digesting the exploration sample, which is configured for association with an analysis window of the XRF detector to facilitate determination of the amount of metal value in the exploration sample. A sample preparation vessel, method and system used to prepare exploration samples for analysis includes a vessel for receiving the exploration sample, a digestion tablet and a digestion medium; a closure to allow the vessel to be agitated to produce a digestion mixture comprising dissolved metal and the collector device. The closure and the collector device are coupled so that collector device is retrieved from the vessel by removing the closure. The digestion tablet includes a metal lixiviate and an alkali compound.



21: 2019/00116. 22: 1/8/2019. 43: 4/30/2021

51: A01H; C12N

71: Commonwealth Scientific and Industrial Research Organisation

72: BELIDE, Srinivas, PETRIE, James Robertson, SINGH, Surinder Pal

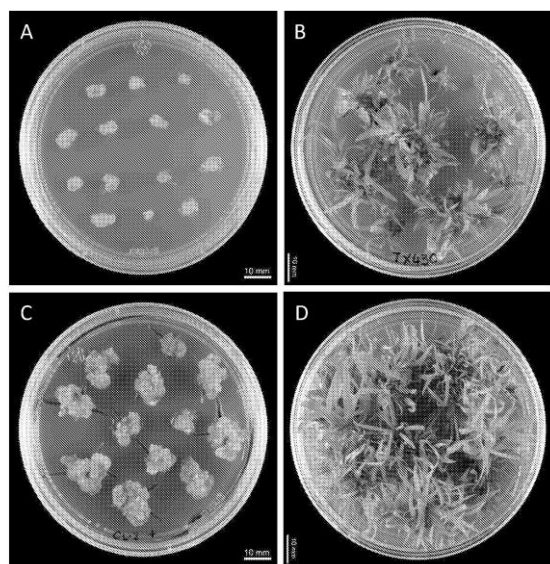
33: AU 31: 2016902278 32: 2016-06-10

#### **54: METHODS TO IMPROVE GENETIC TRANSFORMATION OF SORGHUM**

00: -

The invention provides an improved method for transformation of sorghum and the production of genetically modified sorghum. In particular, methods and means are described for the production of high

quality, transformable sorghum plant cells which are maintained in culture for longer duration without losing their regenerative potential and their use for genetic transformation. The method also describes the use of improved media for efficient plant regeneration from transformed plant cells, thereby providing significant improvement in the stable transformation frequency of sorghum.



21: 2019/00221. 22: 1/14/2019. 43: 6/22/2021  
51: H01M  
71: Anhui University Of Science And Technology  
72: Xinghua, XIE  
33: CN 31: 201811587110.7 32: 2018-12-25  
**54: METHOD FOR SYNTHESIZING NCA BATTERY MATERIAL BY COMBUSTION AND EVEN DEFLAGRATION**

00: -

The present disclosure relates to a method for synthesizing an NCA battery material by combustion and even deflagration, comprising making a first mixed material from suitable masses of a nickel source, a cobalt source and an aluminum source, affording a composite oxide by combustion and even deflagration reaction under high temperature condition, selecting the composite oxide containing nickel, cobalt and aluminium elements at a molar ratio of 8:1.5:0.5, adding a lithium source, and affording the NCA battery material by combustion and even deflagration reaction further under the high temperature condition. The method of the present disclosure enables an added nitrate to be

decomposed using combustion and even deflagration reaction, and be integrated with added metal powder in the decomposition process, to finally give the NCA battery material containing lithium, nickel, cobalt, and aluminum at a molar ratio of 10:8:1.5:0.5, having a particle size of 10-100 nm, and suitable for use as a positive electrode material of a lithium battery. The synthesis method by combustion and even deflagration according to the present disclosure is characterized by high efficiency, energy saving, simple technical process, and high production efficiency, and can achieve large-scale production.

21: 2019/00403. 22: 21/01/2019. 43: 5/10/2021  
51: A44C

71: REIL, Goran

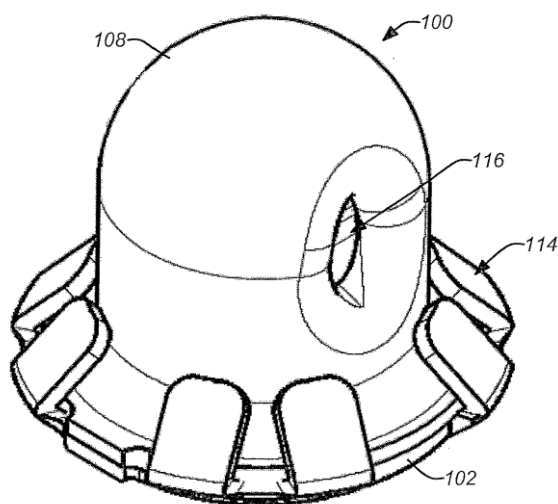
72: REIL, Goran, REIL, Vladimir

33: US 31: 15/222,443 32: 2016-07-28

**54: SAFETY CLUTCH**

00: -

A safety clutch (100) for releasable securing of a post (202) for a body piercing is disclosed. The post (202) is guided through a hole (104) in a plate (102) to be secured (but removable) between a pair of cantilever spring elements (110A, 110B) bent from the edges of the plate (102) into position on the back side of the plate (102). A dome shield (108) is also secured to the edge of plate (102) to cover the cantilever spring elements (110A, 110B) on back side of the clutch (100), the dome shield (108) including one or more ventilation holes (116) for reducing moisture accumulation within the dome shield (108). The dome shield (108) blocks an end of the post (202) extending between the cantilever spring elements (110A, 110B) from contacting the user and possibly puncturing skin. The plate (102), dome shield (108) and cantilever spring elements (110A, 110B) can be efficiently manufactured by forming and stamping from a single piece of material.



21: 2019/00535. 22: 1/25/2019. 43: 5/10/2021  
51: H04L

71: nChain Holdings Limited

72: SAVANAH, Stephane, WRIGHT, Craig Steven, CHAN, Ying

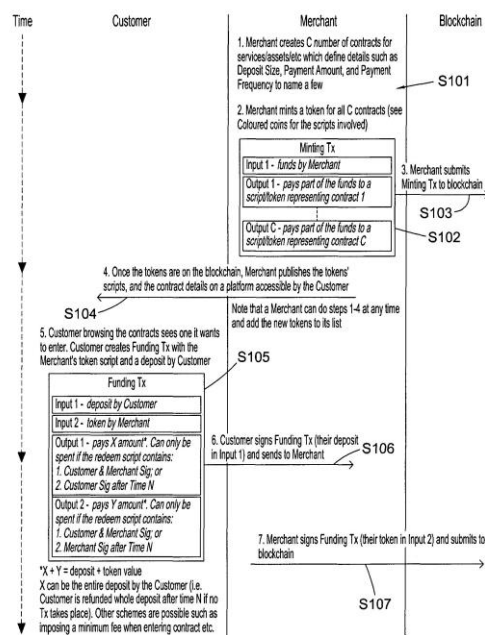
33: GB 31: 1613109.6 32: 2016-07-29

#### **54: BLOCKCHAIN IMPLEMENTED METHOD AND SYSTEM**

00: -

The invention relates to computer-based, electronic ledgers, and in particular distributed ledgers known as "blockchains". The invention is suited for use with the Bitcoin blockchain and associated protocol, but is not limited in this regard and can be deployed using other blockchain platforms. The invention provides a novel and advantageous technique for executing a micropayment channel in which the number of transactions (TXs) that need to be submitted to the blockchain can be greatly reduced. An initial transaction (Tx) can be replaced by one or more subsequent transactions which another party can hold onto until a selected transaction is completed (signed) and submitted to the network. In one embodiment, the invention provides a computer-implemented method for performing an exchange via a blockchain, comprising the step of submitting a funding transaction to the blockchain network, wherein the funding transaction i) comprises a tokenised contract relating to an asset to be transferred from a second user to a first user; and ii) is signed by the first user. It also comprises the step of sending, from the first user to the second user, one or more subsequent transactions wherein each

said subsequent transaction spends an output of the funding transaction and is signed by the first user. It includes the step of submitting one of the subsequent transactions to the blockchain network, the submitted transaction having been signed by the second user.



21: 2019/00600. 22: 29/01/2019. 43: 5/24/2021  
51: C25C

71: COBEX GMBH

72: SUM, Elaine, PFEFFER, Markus, PFEFFERER, Florian, VERA, GARCIA, Oscar, MINKINA, Mariusz, MIELNIK, Seweryn

33: DE 31: 10 2016 213 712.3 32: 2016-07-26

#### **54: CATHODE ASSEMBLY FOR THE PRODUCTION OF ALUMINUM**

00: -

The present invention relates to a novel cathode assembly and its use for the production of aluminum in an electrolysis cell.

21: 2019/00735. 22: 05/02/2019. 43: 6/14/2021  
51: A24F; A61M

71: RAI STRATEGIC HOLDINGS, INC.

72: DAVIS, Michael F., ROGERS, James, PHILIPS, PERCY, GARCIA, Ercilia Hernandez

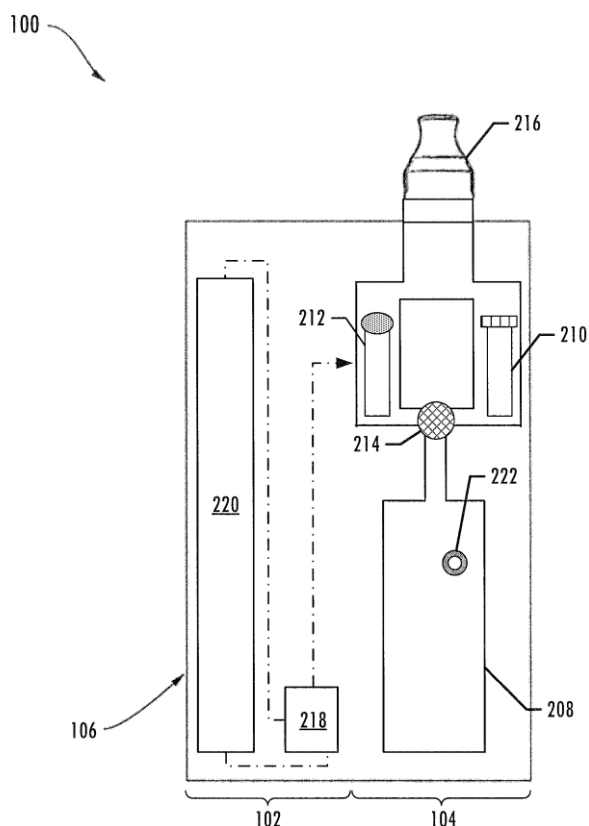
33: US 31: 15/205,775 32: 2016-07-08

#### **54: AEROSOL DELIVERY DEVICE WITH CONDENSING AND NON-CONDENSING VAPORIZATION**

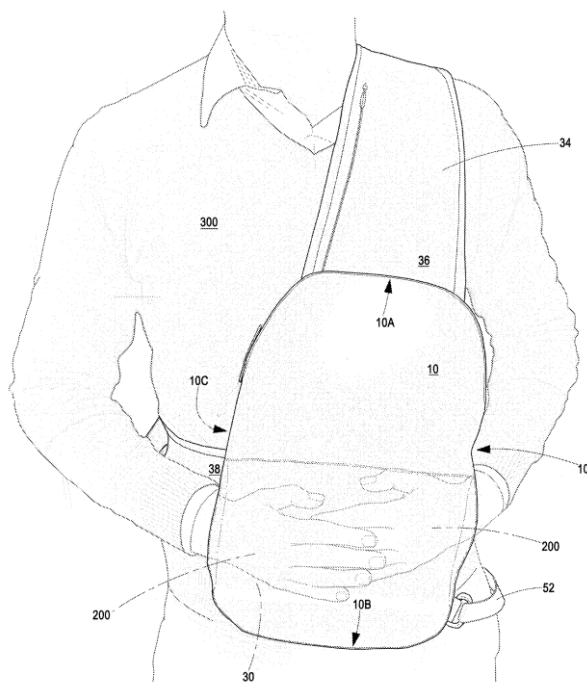


00: -

An aerosol delivery device (100) having condensing and non- condensing vaporization functionality is provided. The aerosol delivery device may comprise at least one housing (106), and a first element (210) and second element (212) contained within the at least one housing. The first and second element may be configured to activate and vaporize components of an aerosol precursor composition, and thereby form respectively a condensing vapor and non-condensing vapor. In response to a flow of air through at least a portion of the at least one housing, the condensing vapor or non-condensing vapor may be combinable with the air to form an aerosol.



a waterproof pocket (12) for receiving a heat source, (i.e. a hot water bottle) therein, and a hand-warming pocket (30) located therein between the waterproof pocket and a layer (20, 22) of heat reflecting and/or insulating material.



21: 2019/00767. 22: 06/02/2019. 43: 6/14/2021  
51: A47K

71: JACKSON, James

72: JACKSON, James

33: US 31: 15/145,935 32: 2016-05-04

#### **54: PORTABLE FOLDABLE TOILET SEAT OVERLAY APPARATUS**

00: -

A portable foldable toilet seat overlay apparatus, foldable between a first position and a second position, deploys from a carry case to position atop an existing toilet set and prevent user contact therewith. The device includes a plurality of tractive members disposed perpendicularly projected from a bottom surface to frictionally engage with the toilet seat when the device is deployed in the first position. Each of the plurality of tractive members is arranged on the bottom surface so as to seat adjacently in contact with opposing portions of the bottom surface when the device is folded to the second position, without inhibiting movement of the device to the second position. In at least one embodiment the

21: 2019/00749. 22: 05/02/2019. 43: 6/14/2021

51: A45C; A61F

71: BOTHA, John Carl

72: BOTHA, John Carl, DRIVER, LYNN

33: ZA 31: 2016/03909 32: 2016-06-08

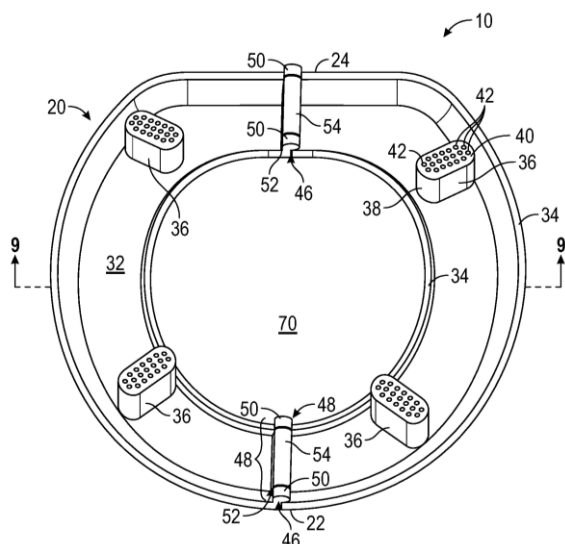
#### **54: A BAG**

00: -

This invention relates to a bag. More particularly, the invention relates to a sling-type wearable bag having



device is antimicrobial and, in another, biodegradable for single or limited use.



21: 2019/00843. 22: 08/02/2019. 43: 6/14/2021  
51: H01F

71: HIGH SPEED TRANSMISSION SOLUTIONS LTD

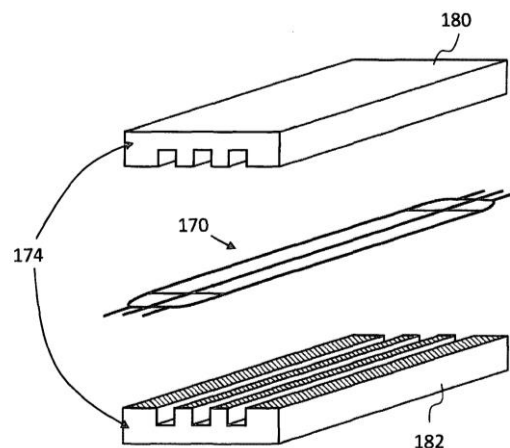
72: LACEY, GLENN RICHARD, ACKLAND, ANDREW STEPHEN

33: GB 31: 1612032.1 32: 2016-07-11

#### **54: ISOLATING TRANSFORMER**

00: -

An Isolating Transmission Line Transformer (ITLT) for use in a data communications system is provided, the transformer comprising: a substantially planar substrate formed of electrically insulative material having opposed first and second surfaces; a first port formed of two separate terminals provided at one part of the substrate; a second port formed of two separate terminals provided at a second part of the substrate; a first conductor connected in series to the first port and arranged as a single loop; a second conductor which is electrically isolated from the first conductor and connected in series to the second port, the second conductor being arranged as a single loop in a substantially opposite orientation to the first conductor; wherein the first and second ports and at least part of the first and second conductors are provided on the substrate surface (s); and a core arranged between the first and second ports to cover the majority of the first and second conductors.



21: 2019/01031. 22: 18/02/2019. 43: 5/19/2021

51: G06F

71: ADVANCED NEW TECHNOLOGIES CO., LTD.

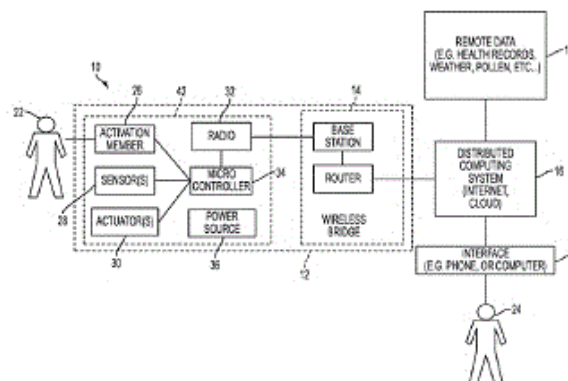
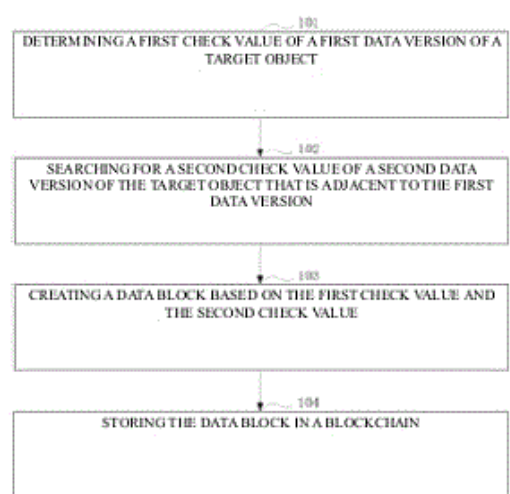
72: LI, YI, ZHAO, ZUNKUI

33: CN 31: 201610694496.6 32: 2016-08-19

#### **54: DATA STORAGE, DATA CHECK, AND DATA LINKAGE METHOD AND APPARATUS**

00: -

A data storage, data check, and data linkage method and apparatus. The method comprises: determining a first check value of a first data version of a target object (101); looking up a second check value of a second data version and adjacent to the first check value of the target object (102); creating, according to the first check value and the second check value, a data block (103); and saving the data block into a blockchain (104). The first check value of the first data version of the target object is stored, by means of data blocks, and in the blockchain. Since the blockchain is immutable, when acquiring data content corresponding to the first data version of the target object, a data demander can check, according to the first check value stored in the blockchain, whether the data content corresponding to the first data version has been modified, thereby determining authenticity of the data content corresponding to the first data version, effectively resolving a problem of inability of determining authenticity of data content owing to easily modifiable data content, and increasing data analysis efficiency at the data demander.



21: 2019/01049. 22: 19/02/2019. 43: 5/14/2021  
 51: A61M  
 71: GECKO HEALTH INNOVATIONS, INC.  
 72: ENGELHARD, YECHIEL, MAALOUF, MARK  
 33: US 31: 61/871,056 32: 2013-08-28  
 33: US 31: 61/871,001 32: 2013-08-28

**54: DEVICES, SYSTEMS, AND METHODS FOR ADHERENCE MONITORING AND DEVICES, SYSTEMS, AND METHODS FOR MONITORING USE OF CONSUMABLE DISPENSERS**

00: -

The invention relates to an apparatus and method for monitoring use of a consumable dispenser. The apparatus comprises a mechanical accessory which is removably and replaceably attachable to the consumables container that is movably coupled to a housing such that a movement of the container and the accessory as a unit relative to the housing is effective to dispense the consumable. The accessory includes a sensor which is configured to sense when the accessory is attached to the container, a processor, and a wireless communication mechanism. The processor is configured to cause the wireless communication mechanism to wirelessly transmit data indicative of the sensed attachment to an external device that is external to the accessory and the container. The accessory is configured to determine when the consumable is dispensed from the container.

21: 2019/01087. 22: 20/02/2019. 43: 6/23/2021  
 51: A61M

71: RAI STRATEGIC HOLDINGS, INC.

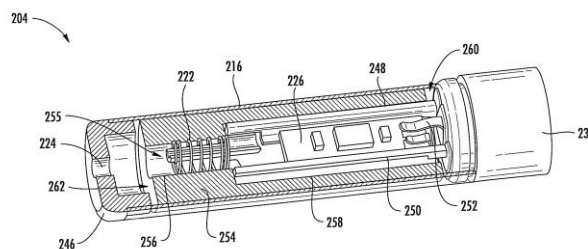
72: DAVIS, Michael F., PHILLIPS, Percy D., ROGERS, James W., AMPOLINI, FREDERIC P., CLEMENS, DAVID A., CARPENTER, WILLIAM K., JOYCE, OWEN L., KING, MICHAEL L., AHR, SEAN M.

33: US 31: 15/216,590 32: 2016-07-21

**54: AEROSOL DELIVERY DEVICE WITH A UNITARY RESERVOIR AND LIQUID TRANSPORT ELEMENT COMPRISING A POROUS MONOLITH AND RELATED METHOD**

00: -

The present disclosure relates to aerosol delivery devices, elements of such devices, and methods for producing vapor. In some embodiments, the present disclosure provides devices configured for vaporization of an aerosol precursor composition that is contained in and transported to a heating element by a unitary reservoir and liquid transport element. The unitary reservoir and liquid transport element may include a porous monolith.



21: 2019/01452. 22: 08/03/2019. 43: 6/14/2021

51: B44D; B65D

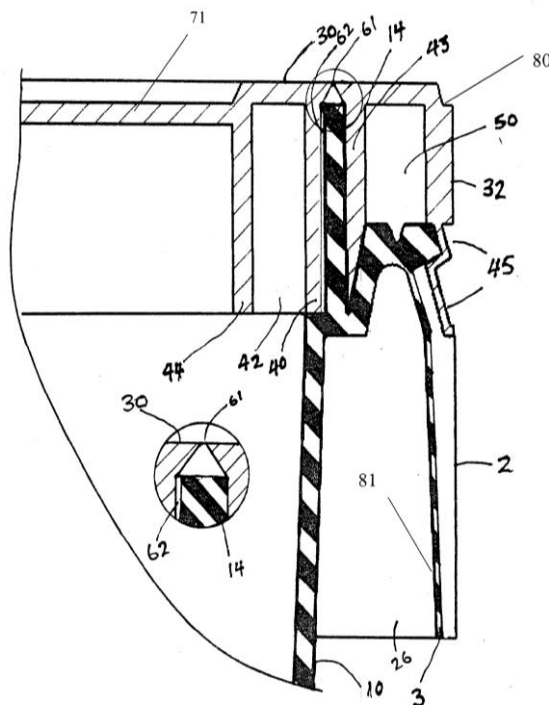
71: TYLER, Glenn Norman, KANG, Kern Weichoreak

72: TYLER, Glenn Norman, KANG, Kern Weichoreak

#### 54: AN IMPROVED PLASTIC CONTAINER BODY AND CONTAINER CLOSURE AND CARRY HANDLE GRIP / CONTAINER LEVERAGE OPENING TOOL ASSEMBLY

00: -

A plastic injection moulded wide mouth container body and container cover locking and sealing mechanism which includes an annular flange and an annular angular notch groove respectively in a pre-determined configuration so as to provide a tight leak-proof seal when the container lid is fitted over, around and within the container body hoop annular fin and upon locking engagement. The present invention incorporates a multi-use plastic handle grip which may also be used as a closure opening levering tool to disengage the container lid from the container body in a safe and ergonomic manner. More significantly the invention, and when in use and upon first usage opening, does not require the removal of any portion of the container lid to comply with tamper evident requirements, nor needs other tools such as knives and metal levers to completely remove the container closure from the container body. Still furthermore the invention includes a plurality of venting channels and adjacent ports which allows the evacuation of increased internal air pressure within the closed container head space with no leakage of the packaged fluid product. The invention may be adapted to plastic containers of any size and shape being round, oval, square or rectangular tapered or straight wall containers.



21: 2019/01468. 22: 3/8/2019. 43: 5/5/2021

51: E03D

71: SNYMAN, Frederick, Christo, BRINK, Gert, Johannes

72: SNYMAN, Frederick, Christo, BRINK, Gert, Johannes

33: ZA 31: 2017/08058 32: 2017-11-28

#### 54: A TOILET FLUSHING UNIT

00: -

The invention discloses a toilet flushing unit for use in a toilet water reservoir. A reservoir connector is securable to an outlet of the reservoir with a flush body connector securable over the reservoir connector. A flush body sealing shaft having a seal at its lower end is slidably moveable relative to the flush body connector. A flush lever connector is secured to the flush body sealing shaft and configured to operatively move the shaft between a closed position, wherein the seal of the shaft seals over the reservoir connector, and an open position wherein a passage of water is provided through an opening of the flush body connector to the outlet of the reservoir. The invention extends to a flush body connector which is retrofittable to existing toilet flushing units.

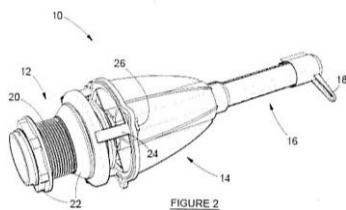


FIGURE 2

21: 2019/01524. 22: 3/12/2019. 43: 6/14/2021  
51: B01D; B03B; B03D

71: THIJS, Roeland Michel Mathieu

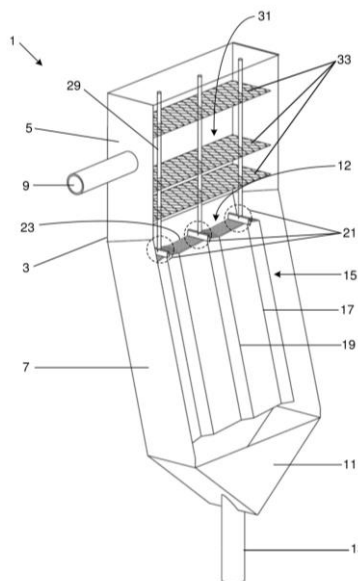
72: THIJS, Roeland Michel Mathieu

33: ZA 31: 2018/01730 32: 2018-03-14

**54: APPARATUS AND METHOD FOR RECOVERING PARTICLES FROM A SLURRY**

00: -

This invention relates to apparatuses and methods for recovering buoyant particles from a slurry. The apparatus comprises a body, at least one operatively inclined corrugated plate and a collector. The body defines a slurry flow region and has an inlet and an outlet at operatively upper and lower regions of the body respectively, with the flow region extending between the inlet and the outlet. The corrugated plate is contained within the body and includes at least one corrugation forming a peak that extends within the flow region. The collector is associated with the at least one peak and positioned on an inlet side of the corrugated plate, with a mouth of the collector positioned at an edge of the corrugated plate to allow low density particles in a slurry within the slurry flow region to rise and be guided along the underside of the peak towards the mouth of the collector. In an inverted configuration, the apparatuses and related methods can be applied to the recovering from a slurry, of particles having a specific density greater than that of the slurry.



21: 2019/01560. 22: 13/03/2019. 43: 6/14/2021  
51: E21B

71: DIAROTECH S.A.

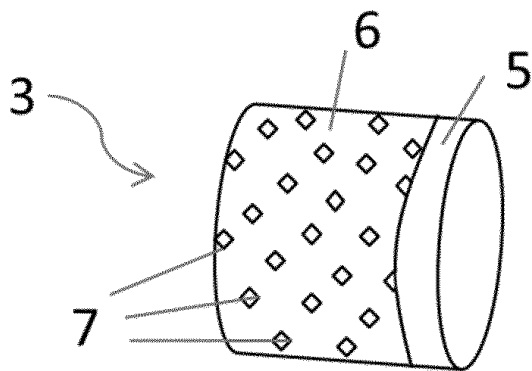
72: DELWICHE, Robert, LAMINE, Etienne

33: BE 31: BE2016/5854 32: 2016-11-14

**54: ROCK-CUTTING TOOL AND METHOD FOR MINE AND OIL DRILLING**

00: -

The invention concerns a rock-cutting tool and the method for manufacturing this tool that comprises cutters (3) comprising a layer (5) of synthetic polycrystalline diamond (PCD), a diamond impregnation layer (6) with diamond particles and binding cobalt, characterised by the fact that the PCD layer rests directly, along a planar interface (8), on the diamond impregnation layer, the interface surface of which is planar by means of machining and on which diamond particles (12) are located.

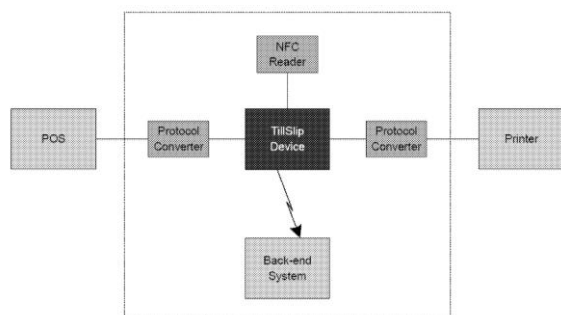


21: 2019/01579. 22: 13/03/2019. 43: 6/14/2021  
 51: G06F; G07G; G06Q  
 71: SEEVNARAYAN, Pravir  
 72: SEEVNARAYAN, Pravir, RANCHHOD, Kamlesh Solanki, RALEIGH, Justin John  
 33: ZA 31: 2016/06371 32: 2016-09-15

#### **54: A DEVICE AND SYSTEM FOR GENERATING AN AUGMENTED RECEIPT**

00: -

A device and system for generating an augmented receipt, which device comprises a receiver configured to receive data transmitted from a point of sale (POS) terminal and a transmitter configured to transmit the data received, read, analysed and identified. The receiver including a reading means configured to read the data, and identifying means configured to analyse and identify predetermined qualifying characteristics of the data. The augmented receipt being generated using the data.

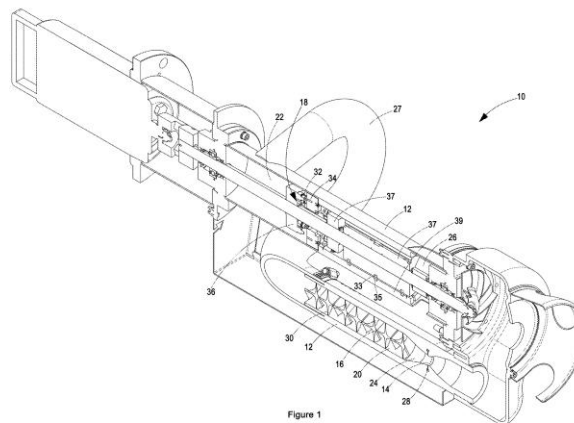


21: 2019/01589. 22: 14/03/2019. 43: 6/14/2021  
 51: A01K; B01F; C02F  
 71: BOTHA, Quartus Paulus  
 72: BOTHA, Quartus Paulus  
 33: ZA 31: 2016/06731 32: 2016-09-28

#### **54: NANO-BUBBLE GENERATOR AND METHOD OF GENERATING NANO-BUBBLES**

00: -

A nano-bubble generator (10) includes (i) a housing (12) defining: an inlet (24) for receiving a liquid with entrained macro-bubbles; a first chamber (20) operatively downstream of the inlet; a second chamber (22) operatively downstream of the first chamber (20); and an outlet (26) operatively downstream of the second chamber (22); (ii) at least one blade (30) disposed within the first chamber (20) for, in use, cutting macro-bubbles entrained in the liquid to convert such macro-bubbles into micro-bubbles; (iii) at least one first magnet (32) within the second chamber (22); and (iv) at least one second magnet (34) associated with the second chamber (22), wherein (a) the at least one first magnet (32) and the at least one second magnet (34) are arranged such that the polarity of the at least one first magnet (32) is opposed to the at least one second magnet (34); and (b) the at least one first magnet (32) is movable relative to the at least one second magnet (34).



21: 2019/01598. 22: 14/03/2019. 43: 5/10/2021  
 51: C08J; C08L  
 71: THAI POLYETHYLENE CO., LTD., SCG CHEMICALS CO., LTD.  
 72: JARUMANEEROJ, CHATCHAI, TRASILANUN, 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 inventions relates to a multimodal polyethylene composition comprising; (A) 30 to 65 parts by weight, preferably 30 to 50 parts by weight, most preferred 30 to 40 parts by weight of the low molecular weight polyethylene having a weight average molecular weight (Mw) of 20,000 to 90,000 g/mol or medium molecular weight polyethylene having a weight average molecular weight (Mw) of more than 90,000 to 150,000 g/mol; (B) 5 to 40 parts by weight, preferably 10 to 35 parts by weight, most preferred 15 to 35 parts by weight, of the first high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 150,000 to 1,000,000 g/mol or the first ultra high molecular weight polyethylene having a weight average molecular weight (Mw) of more than 1,000,000 to 5,000,000 g/mol; and (C) 10 to 60 parts by weight, preferably 15 to 60 parts by weight, most preferred 20 to 60 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 5,000,000 g/mol, wherein a  $MI_{21}$  of the multimodal polyethylene composition is less than 2.0 g/10 min, and a Charpy impact strength at 23 °C the of multimodal polyethylene composition is at least 70 kJ/m<sup>2</sup>, preferably 70 to 120 kJ/m<sup>2</sup>, measured by ISO 179, a sheet comprising the multimodal polyethylene composition as well as the use of the sheet.

21: 2019/01827. 22: 3/25/2019. 43: 4/30/2021

51: A61K; A61P; C07D

71: Shanghai Haihe Pharmaceutical Co., Ltd., Shanghai Institute of Materia Medica, Chinese Academy of Sciences

72: CHEN, Xuxing, GENG, Meiyu, JIANG, Lei, CHEN, Yi, CAO, Jianhua, JIANG, Qingyun, SHEN, Qianqian, DING, Jian, YAO, Yucai, ZHAO, Zhao, XIONG, Yuanfang

33: CN 31: 201610807947.2 32: 2016-09-07

**54: PYRIDO FIVE-ELEMENT AROMATIC RING COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF**

00: -

The present invention provides a pyrido five-element aromatic ring compound, and a preparation method therefor and a use thereof. The compound provided

in the present invention has an inhibitory effect on wild-type and/or mutant EZH2, and is well positioned to become a novel anti-tumor drug or a drug for the treatment of autoimmune diseases.

21: 2019/02021. 22: 01/04/2019. 43: 5/3/2021

51: C08G; C09D; C08L; D06M

71: VAN WIJHE BEHEER B.V.

72: FIETEN, BRAM, WESSELS, JAN, BROOKHUIS, RAINIER ANTONIUS HERMANUS, VAN WIJHE, MARIE LOUISE, LOONTJENS, JACOBUS ANTONIUS, ZHAO, PEI, BUSSCHER, HENDRIK JAN, VAN DER MEI, HENDERINA CATHARINA, WESSEL, STEFAN WOUTER, MECOZZI, FRANCESCO, DRIESSE, MARIANNE

33: NL 31: 2017429 32: 2016-09-07

**54: ANTIMICROBIAL SURFACTANTS AND WATER BORNE COATINGS COMPRISING THE SAME**

00: -

The invention relates to novel antimicrobial surfactants and their application in antimicrobial coating systems, in particular water borne coatings. Provided is a method for providing an antimicrobial surfactant, comprising the steps of: (a) providing a hyperbranched polyurea having blocked isocyanates at the end of the polymer branches by the polycondensation of AB<sub>2</sub> monomers; (b) introducing tertiary amine groups by reacting said blocked isocyanates of the hyperbranched polyurea with a tertiary amine compound that is functionalized with -OH, -NH<sub>2</sub>, -SH, or -COO-; and (c) quaternization of said tertiary amine groups by reacting with an alkylating agent to obtain a quaternized hyperbranched polymer having antimicrobial surfactant properties.

21: 2019/02109. 22: 4/4/2019. 43: 5/10/2021

51: F42D; E21C

71: PLASTIC INNOVATIONS (PTY) LTD

72: LIPSCHITZ, STEPHEN CHARLES

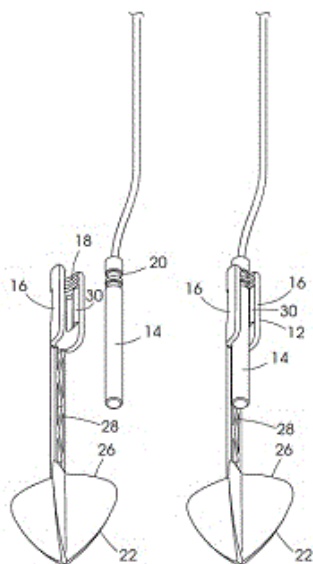
33: ZA 31: 2018/02174 32: 2018-04-04

**54: A DETONATOR HOLDER**

00: -

A detonator holder includes a detonator holding portion and flexible engaging fins for engaging with the walls of a hole drilled into which an explosive will be pumped. A spacing member is connected between the detonator holding portion and the

flexible engaging fins so that the detonator holding portion is held spaced apart from the engaging fins.



21: 2019/02114. 22: 04/04/2019. 43: 5/13/2021  
51: A61K; A61P  
71: MARINUS PHARMACEUTICALS, INC  
72: SAPORITO, Michael, PATRONEVA, Alben, CZEKAI, David  
33: US 31: 62/408,330 32: 2016-10-14  
33: US 31: 62/486,781 32: 2017-04-18  
**54: METHOD OF ADMINISTERING A NEUROSTEROID TO EFFECT ELECTROENCEPHALOGRAPHIC (EEG) BURST SUPPRESSION**

00: -  
The disclosure provides a method of eliciting electroencephalographic burst suppression or electroencephalographic suppression in a patient. the method includes administering to the patient a formulation comprising neurosteroid nanoparticles having a D50 of less than 2 microns and a polymeric surface stabilizer chosen from hydroxyethyl starch, dextran, and povidone and 0.1 to 50 mg of the neurosteroid per 1 kg of the patient's body weight. The neurosteroid may be administered intravenously, intramuscularly, subcutaneously, or orally. Continuous intravenous administration and intravenously, intramuscularly, subcutaneously, or orally administering sequential bolus doses comprising 0.5 mg of ganaxolone per 1 kg of body weight in a human patient, with an interval of less than 30 minutes between two consecutive doses are included in the disclosure.

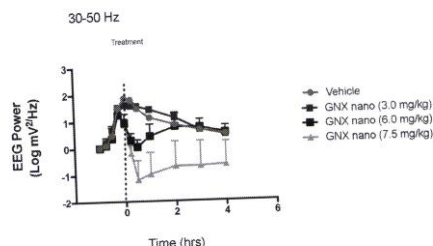


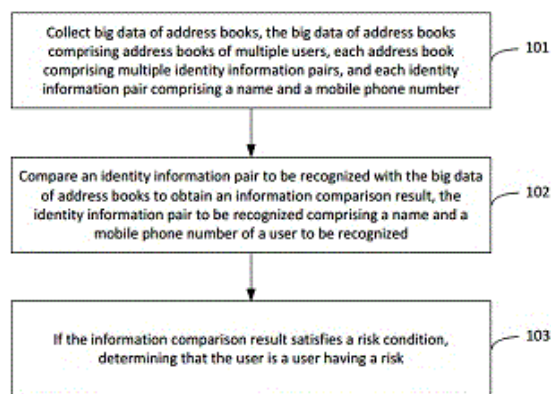
FIG. 4A

21: 2019/02248. 22: 10/04/2019. 43: 5/14/2021  
51: C12C  
71: BARTH INNOVATIONS LIMITED  
72: WOLINSKA, Katarzyna  
33: GB 31: 1617691.9 32: 2016-10-19  
**54: HOP PRODUCTS**

00: -  
The present invention relates to hop products, in particular to hop products for flavouring beer and enhancing the aroma of beers, ales and other brewed beverages. More specifically, the present invention relates to such products which are 100% hop-derived and which are readily dispersible in cold wort and beer. As a result of our research, we have determined that polar hop extracts, in particular aqueous extracts of hops, have emulsifying properties for hop oil or hop oil-based hop extract products. This has allowed us to develop hop flavouring and aroma products for beer consisting solely of natural products, without the need for artificial emulsifiers and thickening agents or solvents. Surprisingly and unexpectedly, we have found that our combinations of hop-derived constituents is readily dispersible in cold wort and in beer, even when formulated as a 100% hop-derived paste, and provides excellent hop flavour and aroma to the finished beer. Accordingly, the present invention provides a hop composition comprising a mixture of a polar extract of hops and a hop oil-containing component.

21: 2019/02460. 22: 17/04/2019. 43: 5/25/2021  
51: H04L  
71: ADVANCED NEW TECHNOLOGIES CO., LTD.  
72: WANG, JIALEI  
33: CN 31: 201610851175.2 32: 2016-09-26  
**54: IDENTITY RECOGNITION METHOD AND DEVICE**  
00: -

The present invention provides an identity recognition method and device. The method comprises: collecting big data of address books, the big data of the address books comprising address books owned by multiple users, multiple identity information pairs being recorded in each address book, and each identity information pair comprising a name and a mobile phone number; comparing to-be-recognized identity information with the big data of the address books, and obtaining the comparison result, the to-be-recognized identity information comprising a name and a mobile phone number of a user to be recognized; and if the information comparison result satisfies a risk condition, determining that the user is a user having a risk. By means of the present invention, a behavior of assuming an identity is recognized.



21: 2019/02972. 22: 13/05/2019. 43: 6/14/2021

51: A45F; A61F

71: RM URGECAMINO, S.L.

72: CASTRO LEON, Rafael

33: ES 31: U201730467 32: 2017-04-21

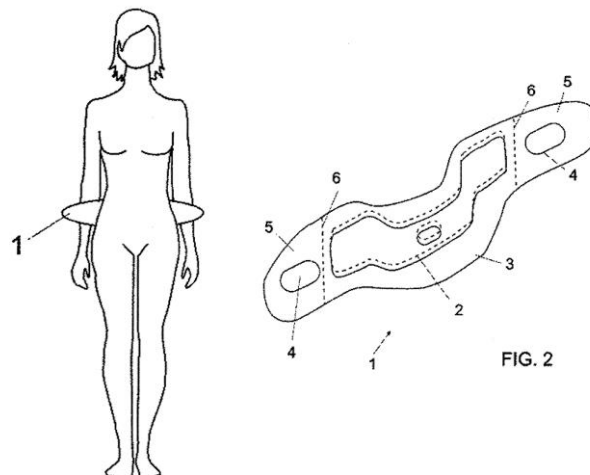
33: ES 31: U201830572 32: 2018-04-20

#### **54: POSTURE CORRECTOR AND RUCKSACK WITH POSTURE CORRECTOR**

00: -

A posture corrector device (1) is arranged in the lumbar region and comprises an inner, generally U-shaped stiffening structure (2) arranged inside an outer cover (3) with wings (5) at its ends. The wings (5) are preferably foldable relative to the central part of the device, via folding lines (6), and the inner side of the wings is provided with a cushion (4) for resting the forearms. The invention also relates to a rucksack comprising a foldable posture corrector device (1) defined by the presence of foldable wings

(5) on either side of the back portion (11a) of the bag (11) to support the forearms and force the users to straighten their back when carrying the rucksack (10) on their back.



21: 2019/03056. 22: 5/15/2019. 43: 7/6/2021

51: B65D

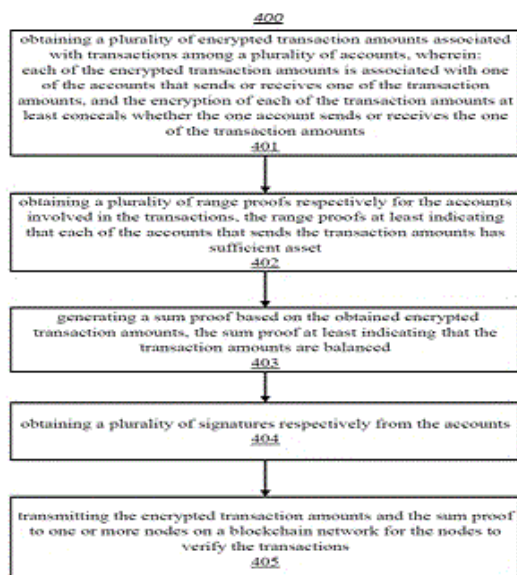
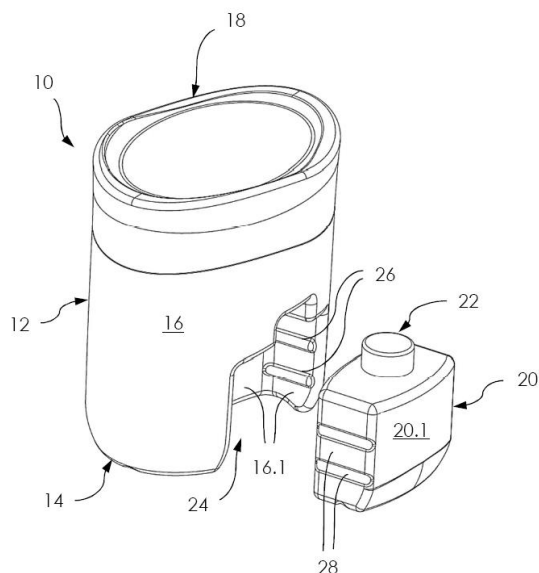
71: Spec Tool and Die and General Engineering (Pty) Ltd

72: MURGATROYD, David John

#### **54: JAR WITH EXTERNALLY NESTED BOTTLE**

00: -

This invention relates to a two-part, two-component packaging container 10 including a first container 12 comprising a base 14 and a side wall 16 arising from the base 14 to define a closable interior volume and a second, smaller, closable container 20. The side of the first container 12 is formed with a side-facing recess 24 corresponding to the shape and size of the second container 20, which is shaped complementally to the recess 24 and configured to slide in and out of the recess 24 on slider rails and tracks 26, 28 that extend in the direction of sliding of the second container 20 into and out of the recess 24.



21: 2019/03109. 22: 17/05/2019. 43: 5/6/2021  
 51: G06Q  
 71: ADVANCED NEW TECHNOLOGIES CO., LTD.  
 72: ZHANG, WENBIN, LI, LICHUN, MA, BAOLI  
**54: SYSTEM AND METHOD FOR INFORMATION PROTECTION**

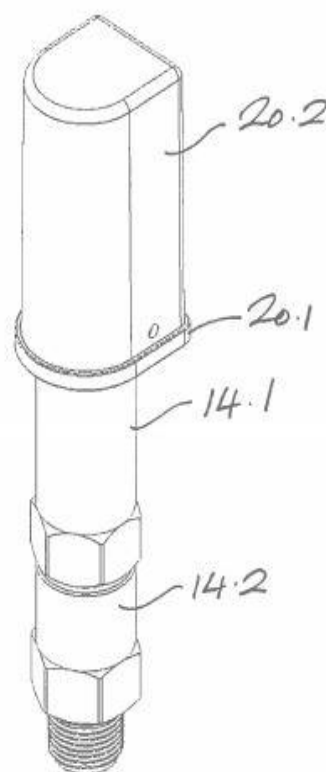
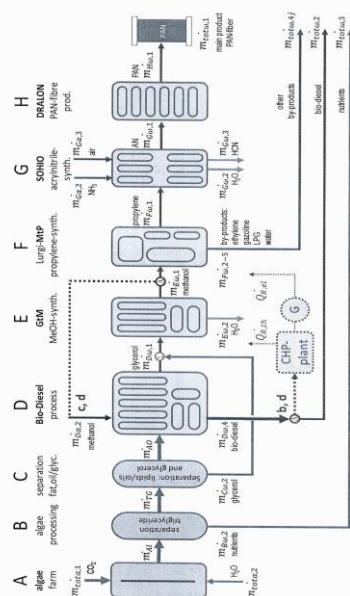
00: -

A computer-implemented information protection method comprises: obtaining a plurality of encrypted transaction amounts associated with transactions among a plurality of accounts, wherein each of the encrypted transaction amounts is associated with one of the accounts that sends or receives one of the transaction amounts, and the encryption of each of the transaction amounts at least conceals whether the one account sends or receives the one of the transaction amounts; generating a sum proof based on the obtained encrypted transaction amounts, the sum proof at least indicating that the transaction amounts are balanced; and transmitting the encrypted transaction amounts and the sum proof to one or more nodes on a blockchain network for the nodes to verify the transactions.

21: 2019/03224. 22: 22/05/2019. 43: 7/6/2021  
 51: C12N; D01F  
 71: KUSE, Kolja, ARNOLD, Uwe, BRUCK, Thomas  
 72: KUSE, Kolja, ARNOLD, Uwe, BRUCK, Thomas  
 33: DE 31: 202016006700.2 32: 2016-11-01  
**54: CARBON FIBERS WHICH CAN BE PRODUCED REGENERATIVELY OR PART-REGENERATIVELY FROM CO2 USING COMBINED PRODUCTION METHODS**

00: -

The invention relates to carbon fibers which are produced from CO<sub>2</sub> based on different process chains. Amongst these, there are ways to produce, from natural base materials such as algal biomass, carbon fibre base materials such as PAN from CO<sub>2</sub>, but there are also purely artificial ways to produce, by means of Fischer-Tropsch synthesis, via which carbon fibre precursors are also produced from CO<sub>2</sub>. Auxiliary products such as biodiesel and nutrients, which can generate an additional benefit, are produced according to said method.



21: 2019/03283. 22: 5/23/2019. 43: 4/30/2021  
51: E21D

71: PIENAAR, Frans Roelof Petrus, HOWELL, Mark,  
WOOD, Richard Roy, NICHOLL, Brian Robert

72: PIENAAR, Frans Roelof Petrus, HOWELL, Mark,  
WOOD, Richard Roy, NICHOLL, BRIAN ROBERT

33: ZA 31: 2018/01370 32: 2018-02-23

#### 54: GROUND MOVEMENT EARLY WARNING DEVICE

00: -

An electrically operated early warning device 10 configured for installation in a support such as a hydraulic mine support. The early warning device includes a transducer attached in hydraulic communication with the pressure interior of the support. A spring-biased piston 12 reciprocates within a cylinder 14. The piston 12 carries a sensor actuator 16 past an array of Hall effect sensors 18.1. Each Hall effect sensor 18.1 is an analogue transducer that returns a voltage every time the actuator magnet 16.1 is carried past a sensor 18.1. An LED 18.3 provides signalling means. The LED 18.3 is a multi-colour light-emitting diode (LED) that lights up to display a signal predetermined by the early warning device programmable logic means, which is programmed to drive the LED 18.3 to produce a different colour light to signal predetermined, different alarm conditions in use.

21: 2019/03303. 22: 24/05/2019. 43: 5/14/2021  
51: G06Q

71: ADVANCED NEW TECHNOLOGIES CO., LTD.

72: LU, YICHENG, CHEN, SHUAI, CHEN, TAO,  
XIA, JUPENG, WANG, NING

33: CN 31: 201710001426.2 32: 2017-01-03

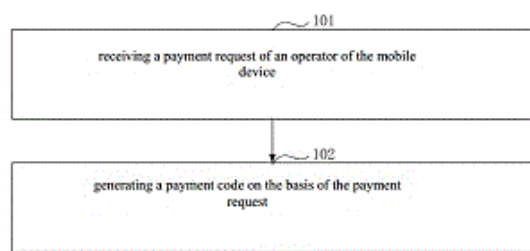
#### 54: SCAN AND PAY METHOD AND DEVICE UTILIZED IN MOBILE APPARATUS

00: -

The invention discloses a scan and pay method and device utilized in a mobile apparatus. The scan and pay method comprises: receiving a payment request of a user of a mobile apparatus; and generating a payment barcode on the basis of the payment request, wherein the payment barcode comprises the following information: first information associated with a payment account and second information associated with a biological/behavioral characteristic of the user and a biological/behavioral characteristic history in the mobile apparatus. The payment method in the invention can be utilized to increase risk identification performance, reduce a risk analysis cost, and reduce resource wastage resulting from



risk identification, thereby enhancing user experience.



21: 2019/03443. 22: 5/30/2019. 43: 5/10/2021

51: H02G

71: PREFORMED LINE PRODUCTS (SOUTH AFRICA) (PTY) LIMITED

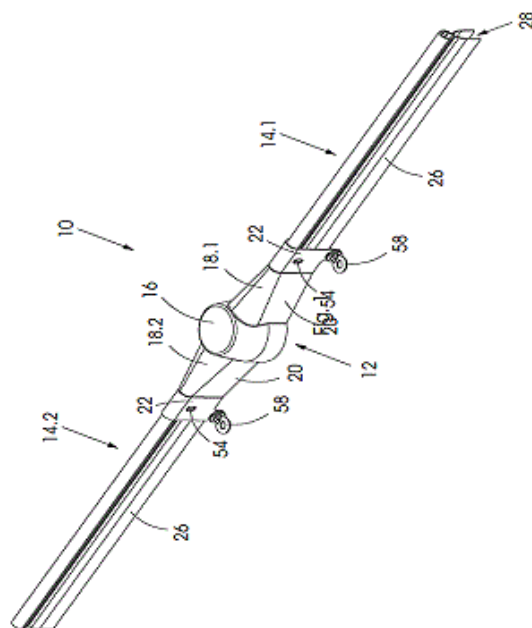
72: ESSA, TAHIR

33: ZA 31: 2018/03409 32: 2018-05-23

#### **54: PROTECTIVE DEVICE FOR A HIGH VOLTAGE CONDUCTOR**

00: -

This invention concerns a protective device for a high voltage conductor. The device includes an insulating shroud shaped to fit over an insulator of the conductor. The shroud has a recess for receiving the conductor when, in use, located on the insulator. The device further has at least one insulating element being connectable to the insulating shroud. The insulating element has a hollow elongate body defining a recess along its longitudinal length for receiving the conductor therein. The insulating element further has a retaining formation for receiving and retaining the conductor so as to secure the device to the conductor.



21: 2019/03529. 22: 03/06/2019. 43: 5/10/2021

51: C07C

71: LINDE AKTIENGESELLSCHAFT

72: FRITZ Helmut, ZELLHUBER Mathieu, WELLENHOFER Anton, SCHUBERT Martin, WINKLER, Florian

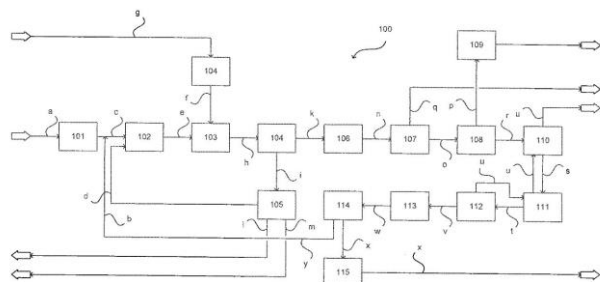
33: EP 31: 16197156.9 32: 2016-11-03

#### **54: METHOD AND SYSTEM FOR PRODUCING OLEFINS**

00: -

The invention relates to a method for producing one or more olefins, wherein a reaction mixture is formed, containing one or more paraffins, and wherein a portion of the paraffin/s contained in the reaction mixture is converted into the olefin/s via oxidative dehydration with the formation of a process gas, wherein the process gas contains at least the olefin/s, the unreacted paraffin/s, oxygen and carbon monoxide, and wherein at least one portion of the process gas is subjected to a cryogenic separation, in which one or more gas fractions are formed, which are enriched with oxygen and carbon monoxide in relation to the process gas, at an operating pressure level. According to the invention, in the cryogenic separation, with the formation and/or for the conveying of the gas fractions, or at least one of the gas fractions, one or more containers and/or one or more lines are used having a bursting pressure corresponding to at least ten times the operating pressure level, and the container, or at least one of the containers, is

connected to one or more heat exchangers via the lines, or at least one of the lines, wherein a total length of the line, or the at least one line, between the container, or the at least one container, and the heat exchanger/s is max. fifty times its internal diameter. The invention also relates to a corresponding system (100).



21: 2019/03625. 22: 06/06/2019. 43: 6/14/2021

51: A61B; G02B; H04N

71: ANTUNES, Nuno

72: ANTUNES, Nuno, MARQUES, Ruben, ANTUNES, José

33: GB 31: 1702664.2 32: 2017-02-19

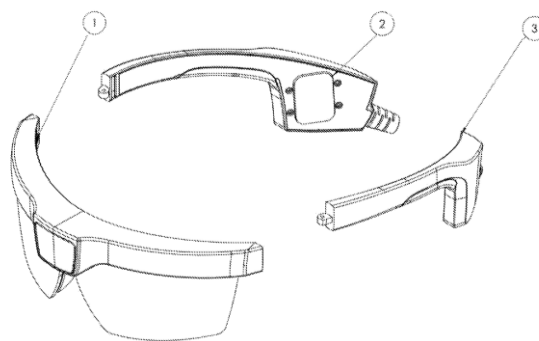
33: PT 31: 109855 32: 2017-01-13

**54: SYSTEM AND METHOD OF ACQUISITION, REGISTRATION AND MULTIMEDIA MANAGEMENT**

00: -

The present invention relates to a system and method of acquisition, registration and multimedia management. The multimedia system of the present invention comprises a data acquisition module (A), like multimedia glasses, for multimedia data acquisition, a computerized module (B), comprising a data processing unit for controlling the functions, recording, storing, managing and/or sharing, transmitting and/or streaming multimedia data acquired multimedia data, and at least one connection module (C) to connect the multimedia data acquisition module to the computerized module. Optionally, the system may further comprise a multimedia data processing module (D) and an additional connection module (C) to connect to a computerized module (B) and/or to peripheral devices (P). In a further aspect of the present invention, it is described a multimedia data processing module (D), comprising a unit for data processing, storing, recording, processing, editing and management of multimedia, as well as a multimedia data library (ML). The present invention

lays in the area of multimedia devices and is useful to be applied in areas where there is a need to record activities of manual detailing, in a professional or recreational scope.



21: 2019/03676. 22: 07/06/2019. 43: 6/14/2021

51: H05B

71: GOOEE LIMITED

72: COUCH, Jonathan, COOMBES, Simon, SILVERMAN, Shmuel

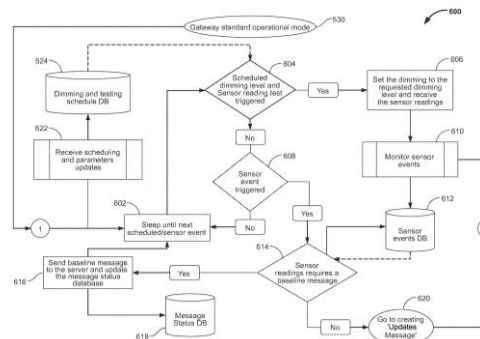
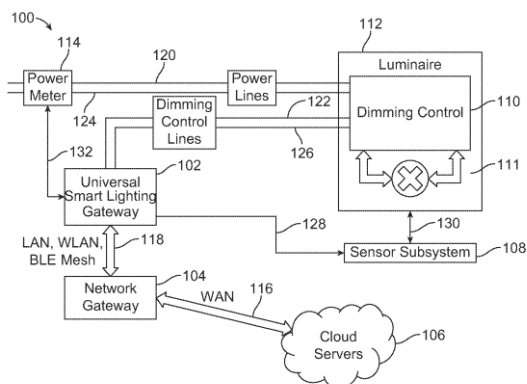
33: US 31: 62/420,908 32: 2016-11-11

33: US 31: 62/579,459 32: 2017-10-31

**54: DEVICES, SYSTEMS, AND METHODS FOR MAINTAINING LIGHT INTENSITY IN A GATEWAY BASED LIGHTING SYSTEM**

00: -

The disclosure relates to devices, systems, and methods to set, adjust, and/or maintain lumen levels of luminaires in a lighting system, for example. The lights may be a plurality of Light Emitting Diode (LED)-based luminaires which are part of a smart illumination system. In certain exemplary embodiments, sensor subsystems detect degradation of luminaire lumen levels and servers/gateways are used to adjust dimming controls to reestablish proper lumen levels and predict a half-life or end of life for the luminaires.



21: 2019/03677. 22: 07/06/2019. 43: 6/14/2021  
51: H05B

71: GOOEE LIMITED

72: COUCH, Jonathan, COOMBES, Simon,  
SILVERMAN, Shmuel

33: US 31: 62/420,908 32: 2016-11-11

33: US 31: 15/360,879 32: 2016-11-23

33: US 31: 62/445,669 32: 2017-01-12

33: US 31: 15/424,868 32: 2017-02-05

33: US 31: 62/510,739 32: 2017-05-24

33: US 31: 62/521,817 32: 2017-06-19

33: US 31: 15/785,808 32: 2017-10-17

#### **54: SYSTEM AND METHOD FOR PREDICTING EMERGENCY LIGHTING FIXTURE LIFE EXPECTANCY**

00: -

Devices, systems, and methods for automatically managing emergency lighting testing are generally described herein. The automated emergency lighting testing may include scheduling emergency lighting events, verifying that emergency lighting power sources and fixtures are sufficient to maintain requisite light intensity for a requisite amount of time, and calculating life expectancy for emergency power sources and lighting fixtures to predict when components should be replaced to avoid failure. The disclosure reduces the amount of time and manual intervention required for the tests by using, among other things, a system of lighting control drivers, sensors, and processors that monitor, assess, and control the lighting system including emergency lighting components and power.

21: 2019/03791. 22: 6/12/2019. 43: 5/24/2021

51: E03C; F16B

71: HANSGROHE SE

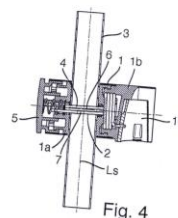
72: HERZOG, Uwe

33: DE 31: 10 2018 209 985.5 32: 2018-06-20

#### **54: ROD-MOUNTABLE HOLDER**

00: -

A holder which comprises a clamping unit which at an enable position enables movement of a holding body along a rod, and in a clamp position exerts a clamping force to block such movement, and wherein the clamping unit comprises wrap springs, each spring wrapping around a rod passage and being movable to provide the clamp position and the enable position of the clamping unit.



21: 2019/03792. 22: 6/12/2019. 43: 5/14/2021

51: E04H; F21V

71: KNOWLES, Edward

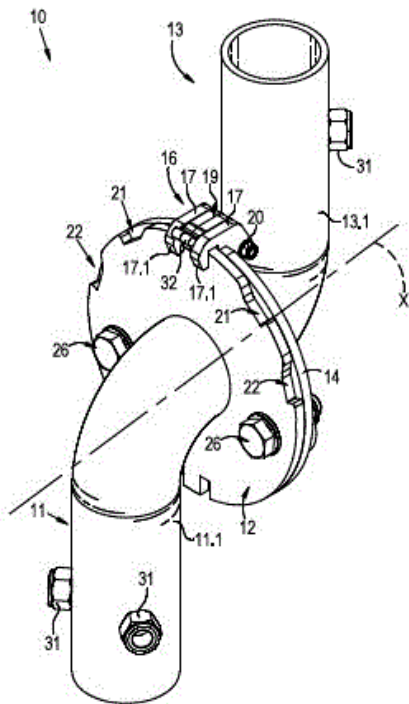
72: KNOWLES, Edward, JACKSON, Warwick  
Francis

#### **54: A SWIVEL JOINT FOR A POLE**

00: -

The invention relates to a swivel joint 10 which is retrofittable to a pole 15 for safe lowering of an upper section of the pole. The swivel joint includes a first pole segment 11 having a first circular flange 12 and an operatively upper, second pole segment 13 having a second circular flange 14, complementary to the first flange 12. The second flange 14 is articulated to the first flange 12 for relative pivotal

displacement of the first and second pole segments 11, 13 about a rotation axis X. The swivel joint 10 includes a detent assembly 16 which is mounted to the second flange 14. The first flange 12 includes a plurality of discrete notches 21, 22 configured releasably to receive a biased detent 19 in order to permit safe, controlled movement of the first and second pole segments between a plurality of discrete angular positions.



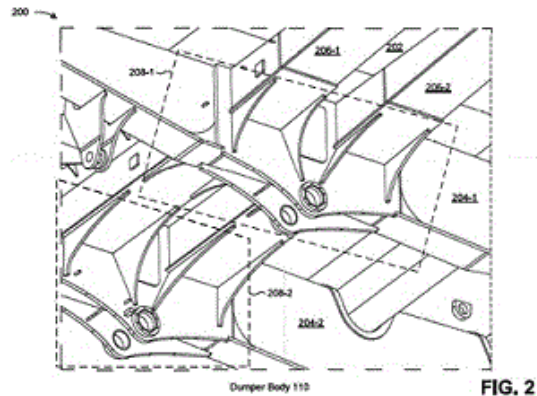
21: 2019/03916. 22: 6/18/2019. 43: 5/10/2021  
51: B61D; B65G  
71: CATERPILLAR INC.  
72: HETTINGER, DANIEL R, SAMPATH KUMAR, VARUN

33: US 31: 16/010,553 32: 2018-06-18  
**54: A DUMPER BODY THAT INCLUDES STRUCTURAL TRANSITIONING**

00: -

A dumper body (110) is disclosed. The dumper body (110) may include a pivot assembly (208). The dumper body (110) may include at least one of a set of ribs (206), wherein the set of ribs (206) is connected to the pivot assembly (208) such that the set of ribs (206) is comprised of multiple respective discontinuous structures (402), and a set of stringers (204), wherein the set of stringers (204) includes a

respective stringer cut-out (710) around an outside surface of a bed plate (202) of the dumper body (110) at a point where a top plate (820) of the dumper body (110) connects to an inside surface of the bed plate (202).



**FIG. 2**

21: 2019/03917. 22: 6/18/2019. 43: 5/10/2021

51: A61C

71: CATERPILLAR INC.

72: GENTLE, MIKE C, VALECK, JEREMY G, FUNK, DUSTIN J

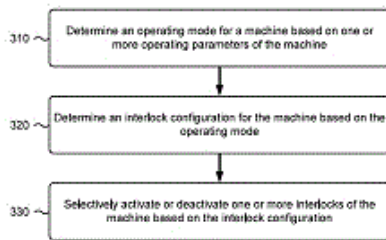
33: US 31: 16/010,577 32: 2018-06-18

**54: AUTOMATIC INTERLOCK SYSTEM**

00: -

An automatic interlock system (200) for a motor grader is disclosed. The automatic interlock system (200) may include one or more processors (202). The one or more processors (202) may be configured to determine an operating mode for the motor grader based on one or more operating parameters of the motor grader. The one or more processors (202) may be configured to determine an interlock configuration for the motor grader based on the operating mode. The one or more processors (202) may be configured to selectively activate or deactivate one or more interlocks (208) of the motor grader based on the interlock configuration.

300



21: 2019/04014. 22: 20/06/2019. 43: 6/14/2021  
51: G01S

71: IDS GEORADAR S.R.L.

72: COPPI, Francesco, MICHELINI, Alberto

33: IT 31: 102016000127152 32: 2016-12-15

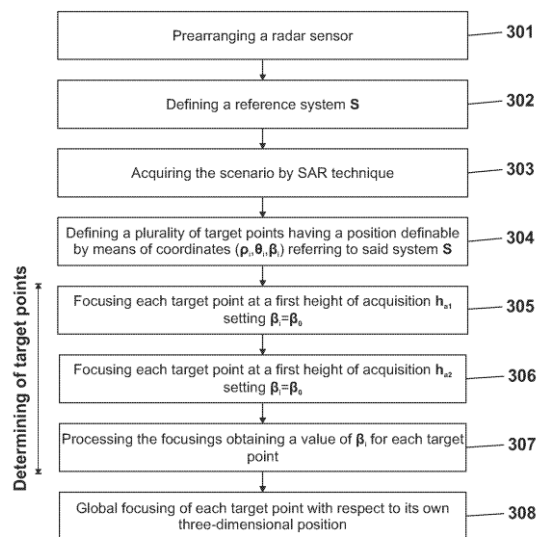
#### 54: METHOD AND APPARATUS FOR MONITORING SURFACE DEFORMATIONS OF A SCENARIO

00: -

A method for monitoring surface deformations of a scenario by means of differential interferometry technique, said method comprising the steps of prearranging a radar sensor comprising at least one transmitting antenna and a receiving antenna arranged to transmission and acquisition of radar signals, said radar sensor arranged to move along a planar trajectory  $y$  having centre  $O$ ; defining a reference system  $S$  having origin in said centre  $O$ ; acquiring by SAR technique said scenario by means of handling said radar sensor along said planar trajectory  $y$ , said radar sensor being configured in such a way that the radiation pattern of said antennas is oriented radially with respect to said centre  $O$ , said acquisition occurring at points of acquisition  $s_i$  arranged on said trajectory  $y$ , obtaining a plurality of data for each point of acquisition  $s_i$ ; defining a plurality of target points  $t_i$  of said scenario, the three-dimensional position of each target point  $t_i$  being definable by means of spherical coordinates  $(\rho_i, \theta_i, \beta_i)$  referring to said reference system  $S$ , being known the values of said coordinates  $\rho_i$  and  $\theta_i$ . The method further comprises a step of three-dimensional determining of said target points  $t_i$  by the steps of focusing at a first height of acquisition  $h_{a1}$  each target point  $t_i$  with respect to its own position considering a value of  $\beta_i$  predetermined and equal to  $\beta_0$ , focusing at a second height of acquisition  $h_{a2} \neq h_{a1}$  each target point  $t_i$  with respect to its own position considering a value of  $\beta_i$  predetermined and equal to  $\beta_0$ , controlling, by means of interferometric technique, said focusings at the height of acquisition  $h_{a1}$  and  $h_{a2}$  obtaining a value of said coordinate  $\beta_i$  for each target point. The method further comprises a step of global focusing each target point  $t_i$  with respect to

**Fig. 1**

300



21: 2019/04015. 22: 20/06/2019. 43: 6/14/2021  
51: H02K

71: WERNER(FUJIAN) POWER CO., LTD

72: ZHANG, Xiongfeng

33: CN 31: 201611226877.8 32: 2016-12-27

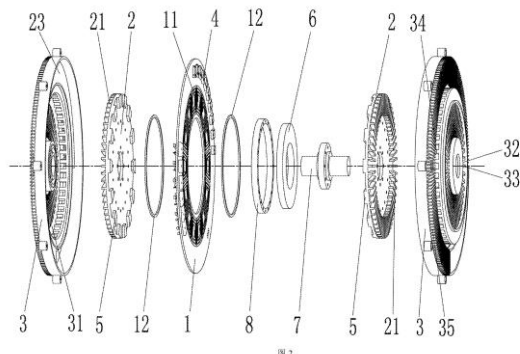
#### 54: COMPACT ELECTRIC MOTOR WITH HEAT DISSIPATION STRUCTURE

00: -

Provided is a compact electric motor with a heat dissipation structure, which comprises a PCB board stator (1) where coils are drawn along a circumference thereof, an electronic module (4) and magnetic steel rotors (5), wherein two sides of the PCB board stator (1) are symmetric and are respectively provided with heat dissipation housings (2) and end covers (3) successively outwards, a middle part of the end covers (3) is provided with a first mounting groove (31), the heat dissipation housing (2) on the same side, after assembly, is located in the first mounting groove (31) of the end cover (3) on the same side, one of the heat dissipation housing (2) and the end cover (3) is rotatably arranged, the other is fixedly arranged, the heat dissipation housing (2) or the end cover (3) which is fixedly arranged is provided with a second mounting groove (23), the electronic module (4), after assembly, is located in the second mounting groove (23), and the magnetic steel rotors (5) are uniformly distributed and fixed circumferentially along the heat dissipation housing (2) or the end



cover (3) which is rotatably arranged. The electric motor has a simple structure, without the need to additionally provide structures such as a heat dissipation fan.



21: 2019/04025. 22: 6/18/2019. 43: 5/10/2021

51: A61C

71: CATERPILLAR INC.

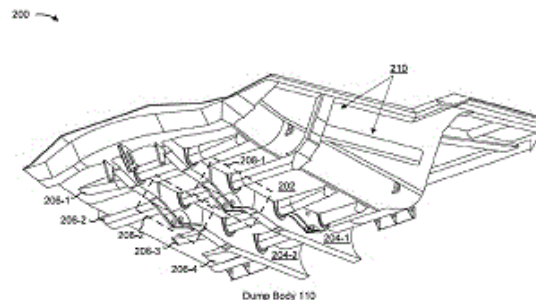
72: ARUL, SAMUEL JUDSON WILLIAM

33: US 31: 16/010,562 32: 2018-06-18

**54: DUMP BODY THAT INCLUDES A PIVOT ASSEMBLY WITH EXTERNALLY ACCESSIBLE GUSSETS**

00: -

A pivot assembly (208) is disclosed. The pivot assembly (208) may include plates (302). The plates (302) may be connected to cover plates (310) associated with respective portions of a stringer (204) that intersect the pivot assembly (208). The plates (302) may be connected to a rib (206) that intersects the pivot assembly (208) perpendicular to the respective portions of the stringer (204). The cover plates (310) may be connected to the rib (206) at a respective end of the cover plates (310). The pivot assembly (208) may comprise a respective pivot bore (304) in the plates (302). The pivot assembly (208) may comprise respective doublers (306) around the respective pivot bore (304). The respective doublers (306) may include a first doubler located on an outside surface of a plate (302), of the plates, and a second doubler located on an inside surface of the plate (302). The pivot assembly (208) may comprise gussets (308). The gussets (308) may be connected to the second doubler, the plates (302), and a respective cover plate (310) of the cover plates.



21: 2019/04026. 22: 6/21/2019. 43: 5/24/2021

51: E04H

71: COCHRANE GULF FZE

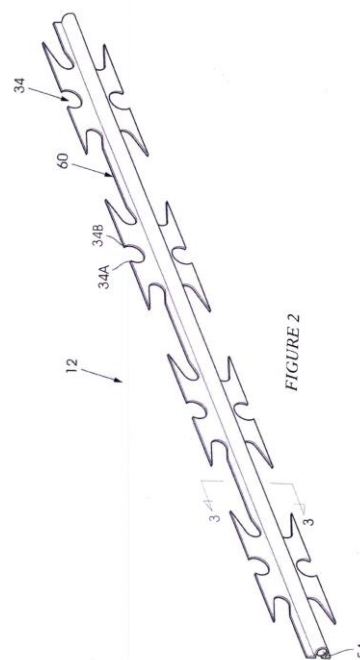
72: BUCARIZZA, Vlado

33: ZA 31: 2018/04723 32: 2018-07-16

**54: RAZOR WIRE**

00: -

A razor wire wherein each spike has a neck section of length L, and a recess, of width W, in its outer edge, and wherein  $W < L$ .



21: 2019/04034. 22: 21/06/2019. 43: 6/14/2021

51: F24H; H05B

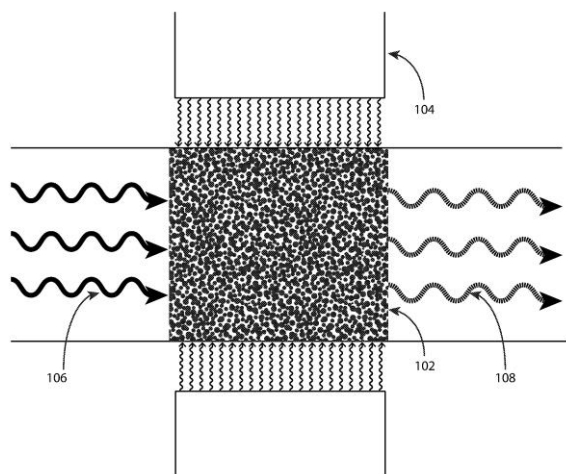
71: HASHIM, Daniel Paul

72: HASHIM, Daniel Paul

**54: DIELECTRIC HEATING OF THREE-DIMENSIONAL CARBON NANOSTRUCTURED POROUS FOAMS AS A HEAT EXCHANGER FOR VOLUMETRIC HEATING OF FLOWING FLUIDS**

00: -

A system and method are described for heating a substance (i.e., liquid, gas, and/or an absorbed solid) using a carbon nanostructured porous foam as a heat transfer material and an electronic heat source. In some embodiments, the heat source may be a microwave volumetric heating (MVH) system. The method for heating, vaporizing, or decomposing any of the desired substance may involve filtering or continuously flowing the substance through the carbon nanostructured porous foam heat transfer material, resulting in physical confinement or absorption of the substance, and subjecting the carbon nanostructure porous foam heat transfer material to sufficient electronic radiation.



21: 2019/04215. 22: 6/27/2019. 43: 5/10/2021

51: A01N

71: WINFIELD SOLUTIONS, LLC

72: BISSELL, DANIEL C, BROWN, DANNY M

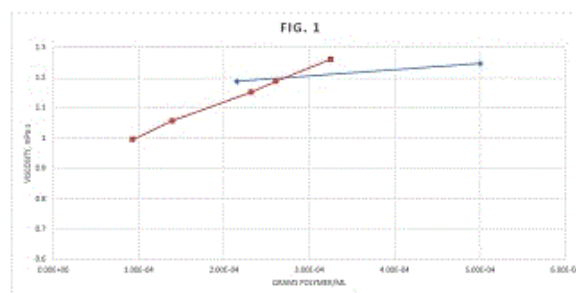
33: US 31: 16/023,790 32: 2018-06-29

#### **54: DRIFT REDUCTION ADJUVANT COMPOSITIONS AND METHODS OF USING SAME**

00: -

Drift reduction adjuvant composition and agricultural sprays containing such agricultural compositions contain water, a rheology modifier (e.g., guar gum or polyacrylamide), an emulsifier such as a polyoxyethylene sorbitan emulsifier, and an oil. When the agricultural spray containing the drift reduction adjuvant composition and a pesticide is delivered from an agricultural nozzle, it produces fewer droplets less than 150  $\mu\text{m}$  in diameter and

either reduces, maintains or increases (e.g., by up to 30 percentage points) the number of ultra-coarse droplets above 622  $\mu\text{m}$  in diameter compared to an agricultural spray of the pesticide without the drift reduction adjuvant composition sprayed under the same conditions.



21: 2019/04415. 22: 7/5/2019. 43: 6/14/2021

51: G01B; G01N

71: GRIFOLS WORLDWIDE OPERATIONS LIMITED

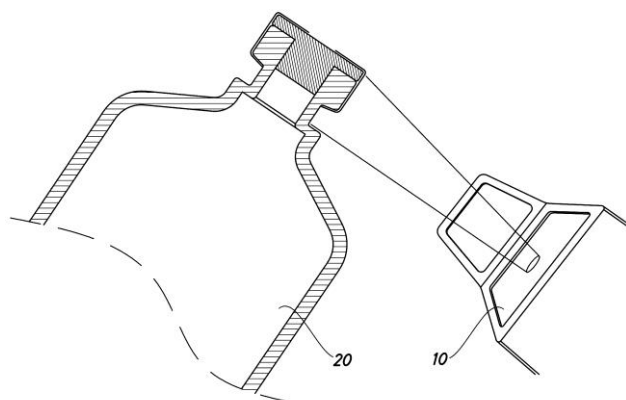
72: BOIRA BONHORA, Jordi, ROURA SALIETTI, Carlos, COCA GARROTE, Jose

33: EP 31: 18382571.0 32: 2018-07-30

#### **54: METHOD AND DEVICE FOR DETECTING DEFECTS IN THE CLOSURE OF ENCAPSULATED VIALS**

00: -

Method for detecting defects in the closure of encapsulated vials, comprising the following steps: a) Scanning a profile of the capsule and of the vial using a profilometer, thus obtaining a point cloud. b) From the point cloud obtained in the previous step, calculating at least one of the following parameters: i. Diameter or radius of the closure circumference of the capsule. ii. Angle of intersection between the lower skirt and the side of the capsule. iii. Length of the lower skirt. iv. Distance from the end of the lower skirt to the neck of the vial. c) Determining whether any of said parameters calculated in the previous step exceeds a predetermined limit value. Also a device for detecting defects in the closure of encapsulated vials, comprising a profilometer configured to scan a profile of the capsule and of the vial and a control device configured to execute a method such as that described earlier.



21: 2019/04690. 22: 7/17/2019. 43: 5/10/2021

51: C11D

71: UNILEVER PLC

72: THOMAS, MATTHEW RHYS

33: EP 31: 18189064.1 32: 2018-08-14

#### **54: COMPOSITION**

00: -

Laundry liquid composition comprising octylisothiazolinone and a further isothiazolinone selected from benzisothiazolinone, chloromethylisothiazolinone, 2-methyl-1,2-benzisothiazol-3(2H)-one and methylisothiazolinone.

21: 2019/04742. 22: 18/07/2019. 43: 5/10/2021

51: H04W

71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED

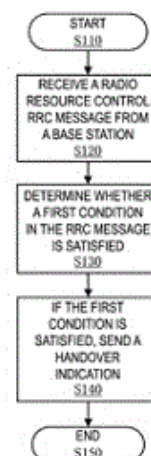
72: CHANG, NINGJUAN, YAMADA, SHOHEI

33: CN 31: 201611213899.0 32: 2016-12-23

#### **54: USER MOBILITY METHOD AND DEVICE**

00: -

The present application provides a method executed by a User Equipment (UE), comprising: receiving a first Radio Resource Control (RRC) message containing a switch command from a base station; determining whether a first condition contained in the first RRC message is satisfied; and sending a switch instruction to the base station if the first condition is satisfied, the switch instruction being used for instructing the base station that the UE is to start switching. The present application also provides a UE and a corresponding base station. By means of the technical solution of the present application, the interruption duration of data transmission during a switching process in NR can be further reduced, thereby avoiding unnecessary false switching.



21: 2019/05100. 22: 7/29/2019. 43: 5/14/2021

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: 2019/05256. 22: 8/8/2019. 43: 6/22/2021

51: C06B

71: Anhui University of Science and Technology

72: Xinghua XIE, Peng SUN, Liangjie ZHANG, Huisheng ZHOU, Heng YANG, Hongbo WU, Quan WANG, Zengyuan LI, TIAN CUI

#### **54: ROCK BREAKING GRAIN AND PREPARATION METHOD THEREOF**

00: -

The disclosure provides a rock breaking grain consisting of a cracking agent, an expansion agent and electrolyte solution, wherein, the cracking agent is composed of an oxidant, a combustible agent and a binding agent; the expansion agent is an expanding agent or a metal compound; the electrolyte solution is one or mixed solution of more than two of sodium chloride solution, calcium

hydroxide solution, sodium sulfate solution and sodium hydroxide solution. The rock breaking grain of the disclosure can be widely used in urban blasting engineering, does not harm people and livestock, is small in blasting vibration, does not pollute environment and is safe in production, transportation and use. Furthermore, compared with other non-explosive blasting agents, the rock breaking grain of the disclosure has the advantages of environment friendliness, no pollution, more convenient use, relatively high blasting equivalent, stable detonation and the like. The disclosure also provides a preparation method for the above rock breaking grain. The preparation method is small in danger factor, environmental friendly and simple to operate.

21: 2019/05259. 22: 8/8/2019. 43: 6/18/2021  
51: C06B

71: Anhui University of Science and Technology  
72: Xinghua XIE, Dian CUI, Huisheng ZHOU, Heng YANG, Liangjie ZHANG, Peng SUN, Zengyuan LI, Quan WANG, Hongbo WU

#### **54: ROCK BREAKING GRAIN CHARGING STRUCTURE AND CHARGING METHOD**

00: -

The disclosure provides a rock breaking grain charging structure, including a cracking agent tube, an expansion agent tube and an electrolyte solution tube which are respectively filled with a cracking agent, an expansion agent and electrolyte solution, and the cracking agent tube, the expansion agent tube and the electrolyte solution tube are assembled into an integrated charging structure. The rock breaking grain charging structure of the disclosure can be widely used in urban blasting engineering, does not harm human and livestock, is small in blasting vibration, does not pollute environment and is safe in production and transportation and use. Furthermore, compared with other non-explosive blasting agents, the rock breaking grain charging structure of the disclosure has the advantages of environmental protection, no pollution, more convenient use, relatively high blasting equivalent, stable detonation and the like. The disclosure also provides a charging method for the above rock breaking grain charging structure, which is simple to operate and good in seal effect.

21: 2019/05293. 22: 8/12/2019. 43: 5/10/2021  
51: A01B; A01C

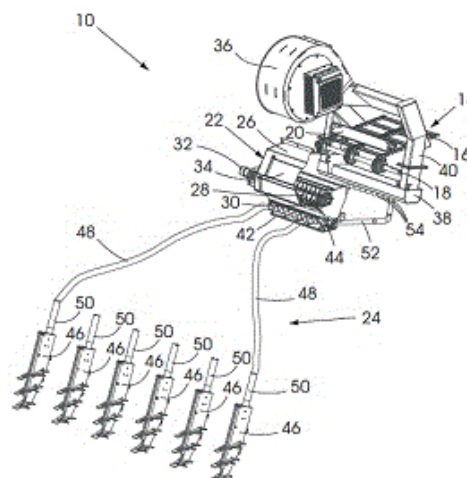
71: RULA AGRI (PTY) LTD

72: ODENDAAL, ROELF

33: ZA 31: 2018/03087 32: 2018-05-11

#### **54: SYSTEM AND METHOD FOR TREATING SOIL** 00: -

This invention relates to a soil conditioning product application system, in particular to a lime application system. The system may include a container for housing the soil conditioning product, a feeder for feeding the soil conditioning product from the container and a product handling unit which, in use, receives the soil conditioning product from the feeder. A conveying system is used for conveying the soil conditioning product from the product handling unit to a number of applicators by means of an operating fluid. The applicators are in fluid communication with the conveying system such that the soil conditioning product is conveyed from the product handling unit to the applicators under pressure. The invention further relates to a soil treatment system and a method of applying soil conditioning product to soil.



21: 2019/05401. 22: 15/08/2019. 43: 6/25/2021  
51: B65B; G01G

71: LABORATORIOS FARMACÉUTICOS ROVI, S.A.

72: CEBADERA MIRANDA, Elena, GUTIERRO ADURIZ, Ibon, GARCÍA AMO, Maria

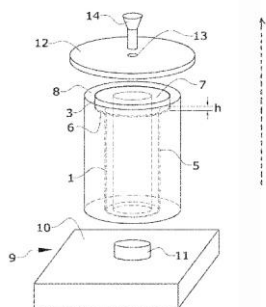
33: ES 31: P 201730587 32: 2017-03-31



#### 54: PROCESS FOR THE GRAVIMETRIC FILING IN STERILE CONDITIONS OF SOLIDS IN A PHARMACEUTICAL CONTAINER

00: -

Method of gravimetric filling of a solid product in sterile conditions in a pharmaceutical container (1) of small dimensions including syringes, vials, capsules, ampoules, single-dose devices, inhalers, bottles, carpules blister, sachets or bags with solid substances selected from the group formed by powder, lyophilizate, granules, pellets, nanoparticles or microparticles. More particularly, it relates to a process for the gravimetric filling of pharmaceutical containers (1) with one or more sterile solid pharmaceutical substances or sterile excipients dosed and prepared in an aseptic environment.



21: 2019/05739. 22: 8/30/2019. 43: 4/30/2021  
51: H03M

71: Huawei Technologies Co., Ltd.

72: MA, Liang, ZHENG, Chen, LIU, Xiaojian, WEI, Yuejun, ZENG, Xin

33: CN 31: 201710502600.1 32: 2017-06-27

#### 54: INFORMATION PROCESSING METHOD, APPARATUS AND COMMUNICATIONS DEVICE

00: -

Disclosed in the present application are an encoding method and apparatus, a communication device and a communication system. The method comprises: using a low density parity check (LDPC) matrix to encode an input bit sequence; the LDPC matrix being obtained on the basis of a spreading factor  $Z$  and a basis matrix, the basis matrix comprising the 0th to 4th rows and the 0th to 26th columns in one of the matrices shown in figures 3b-1 to 3b-10, or the basis matrix comprising the 0th to 4th rows and some of the 0th to 26th columns in one of the matrices shown in figures 3b-1 to 3b-10. The encoding method and apparatus, the communication device and the communication system of the present

application are able to satisfy channel encoding requirements.

图 3a

21: 2019/05863. 22: 8/15/2019. 43: 6/30/2021  
51: F24D

71: MAANSHAN NBWAVE TECHNOLOGY CO., LTD

72: CHEN, Limin, GE, Fei, SUN, Jinjin, WU, Jiayao

33: CN 31: CN201910393989.X 32: 2019-05-13

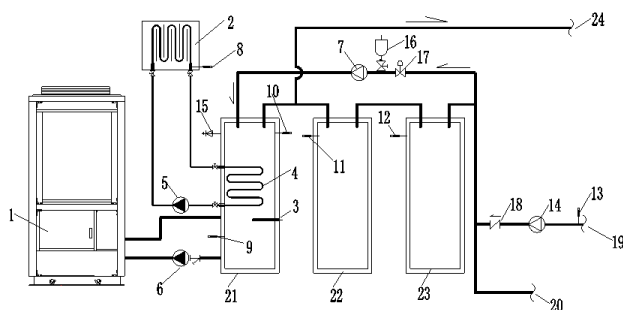
#### 54: A PRESSURE-BEARING MODULE HOT WATER CONTROL SYSTEM WITH MULTIPLE ENERGY SOURCES

00: -

The invention disclosures a pressure-bearing module hot water control system with multiple energy sources, comprising an air-source heat pump water heater, a solar energy heat-collection plate, a electric heating tube, a pressure-bearing module heating tank, a first pressure-bearing module heat storage tank and a second pressure-bearing module heat storage tank, the air-source heat pump water heater and the pressure-bearing module heating tank are connected through a runner pipe and a return pipe, an air-source water circulating pump is provided on the middle part of the runner pipe. By arranging the air-source heat pump water heater, electric heating tube and solar energy heat-collection tube in the system, the air energy, solar energy and electricity can be combined into one heating system. The control system can produce large amount of hot



water using air energy, solar energy and electricity together to when the hot water water demand is large.



21: 2019/05949. 22: 9/10/2019. 43: 5/10/2021  
51: G01G

71: INTERWASTE PROPRIETARY LIMITED

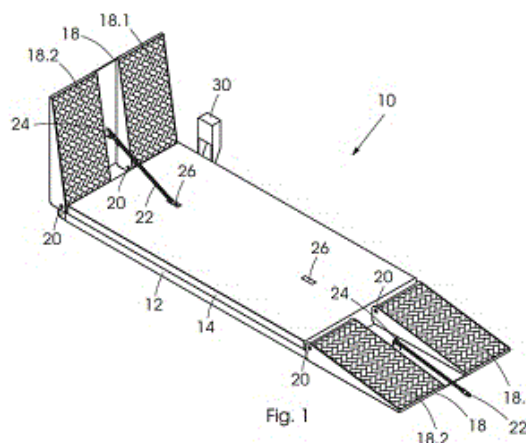
72: WILCOCKS, WILLIAM ALAN HARDY

33: ZA 31: 2018/06033 32: 2018-09-10

**54: A MOBILE WEIGHING DEVICE**

00: -

This invention concerns a weighing device for weighing vehicles. The device includes a base and a platform located on the base. Weight measuring means is located between the base and the platform such that a mass placed on the platform exerts a measurable force on the weight measuring means. At least one ramp is located at an end of the base so as to allow a vehicle to drive onto the platform. The ramp is movable between a raised, inoperative position wherein it is raised up off the ground, and a lowered, operative position, wherein it extends in a substantially horizontal position from the base to allow the vehicle to drive onto the platform.



21: 2019/05958. 22: 1/31/2019. 43: 6/14/2021

51: A61K; A61P

71: FORTY-FOUR PHARMACEUTICALS SP. Z  
O.O.

72: TURSKI, Christopher

33: PL 31: P.424453 32: 2018-01-31

**54: NEUTRAL ENDOPEPTIDASE (NEP) AND  
HUMAN SOLUBLE ENDOPEPTIDASE (HSEP)  
INHIBITORS TO REDUCE HARMFUL EFFECTS  
OF PERFUSION DEFICIENCY OF ORGANS**

00: -

The invention relates to a novel use of benzazepine, benzoxazepine, benzothiazepine-N-acetic acid and phosphono-substituted benzazepinone derivatives having both neutral endopeptidase (NEP) and/or human soluble endopeptidase (hSEP), and endothelin convertase (ECE), inhibitory activity. The compounds of this invention are useful for the preparation of pharmaceutical compositions to reduce harmful effects of symptomless progressive disseminated perfusion deficiency of organs, or parts thereof, that may be suggestive of systemic diseases.

21: 2019/05959. 22: 1/31/2019. 43: 6/17/2021

51: A61K; A61P

71: FORTY-FOUR PHARMACEUTICALS SP. Z  
O.O.

72: TURSKI, Christopher

33: PL 31: P.424452 32: 2018-01-31

**54: NEUTRAL ENDOPEPTIDASE (NEP) AND  
HUMAN SOLUBLE ENDOPEPTIDASE (HSEP)  
INHIBITORS FOR PROPHYLAXIS AND  
TREATMENT OF EYE DISEASES**

00: -

The invention relates to a novel use of benzazepine, benzoxazepine, benzothiazepine-N- acetic acid and phosphono-substituted benzazepinone derivatives having both neutral endopeptidase (NEP) and/or human soluble endopeptidase (hSEP), and endothelin convertase (ECE) inhibitory activity. The compounds of the invention are useful for the preparation of pharmaceutical compositions for prophylaxis and treatment of eye diseases.

21: 2019/05960. 22: 10/09/2019. 43: 6/14/2021  
 51: A24B; A24D; A61K; A61P  
 71: TURSKI, Michał  
 72: TURSKI, MICHAŁ, TURSKA MONIKA, TURSKI GABRIELLE, TURSKI CHRISTOPHER  
**54: METHODS TO REDUCE HARMFUL EFFECTS OF SMOKING CIGARETTES, CIGARS AND TOBACCO, AND OF EXPOSURE TO SMOKE FROM CIGARETTES, CIGARS AND TOBACCO BY USING KYNURENIC ACID IN NANOPARTICLE CARRIER SYSTEMS**

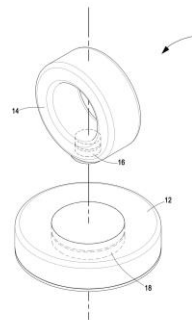
00: -

Kynurenic acid is an endogenous constituent of the human body. The methods for increasing the concentration of kynurenic acid in the lungs by adding kynurenic acid or its salts in nanoparticle carrier systems to cigarettes or tobacco prior to their smoking are described.

21: 2019/05993. 22: 9/11/2019. 43: 6/14/2021  
 51: E04H; F16L  
 71: MACIEJ, Michael Werner  
 72: MACIEJ, Michael Werner  
 33: ZA 31: 2018/06940 32: 2018-10-18  
**54: POOL HOSE RETAINER**

00: -

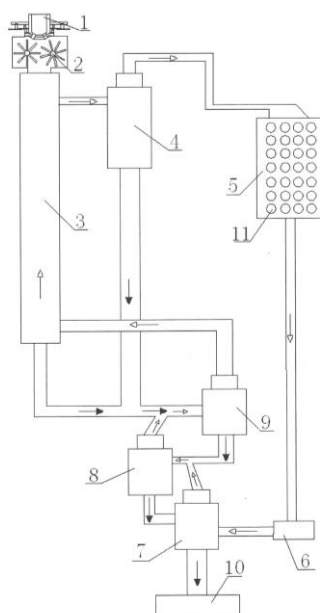
A pool hose retainer that includes: a mounting plate; a ring that is locatable circumferentially around a pool hose; and at least one first magnet secured to the ring, for releasably securing the ring to the mounting plate.



21: 2019/05994. 22: 9/11/2019. 43: 6/23/2021  
 51: C21B; F27D  
 71: Hebei University of Science and Technology  
 72: WU, Haixia, ZHAI, Pengda, GUO, Wei, ZHANG, Junyi, ZHANG, Peijie, LIU, Yan  
 33: CN 31: 201910630261.4 32: 2019-07-12  
**54: CONVERTER SLAG PROCESSING SYSTEM AND PROCESSING METHOD THEREOF**

00: -

The present invention relates to the technical field of processing slag, in particular to a converter slag processing system and a processing method thereof, wherein the converter slag processing system comprises a granulating device, a cooling tower, a high-temperature section dust removing device, a low-temperature section dust removing device, a waste heat boiler, a fan and a slag storage chamber. The slag processing system of the present invention has high heat energy recovery efficiency, no harmful gas, and high degree of automation, reduces a large amount of manual labor, and greatly reduces the slag processing cost.



21: 2019/05995. 22: 9/11/2019. 43: 6/23/2021

51: G01M; G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

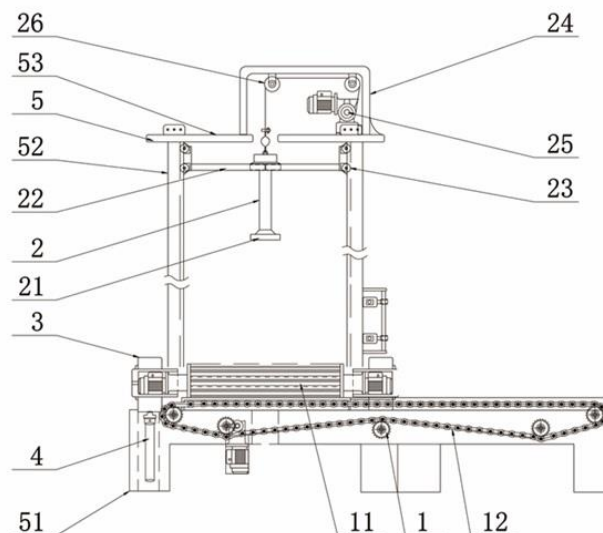
72: ZHAO, Guangming, ZHANG, Ruofei

33: CN 31: 201910279712.4 32: 2019-04-09

#### **54: MOVABLE FRAME, SIMULATION TEST SYSTEM AND SIMULATION METHOD THEREOF**

00: -

The present invention discloses a movable frame, a simulation test system and a simulation method thereof, and belongs to the field of physical simulation experiments. The movable frame of the present invention comprises a frame and a transmission mechanism that drives the frame for controlling movement of the frame in the simulation test system. The simulation test system refers to a relevant simulation test system under mining disturbance, in which there is a loading area, and the mining disturbance is simulated by applying a load. The frame is controlled to move in the simulation test system so that the frame is away from the loading area. At this time, the test personnel operate within the frame and the personal safety is guaranteed.



21: 2019/05997. 22: 9/11/2019. 43: 6/14/2021

51: B02C

71: IMS Engineering (Pty) Ltd

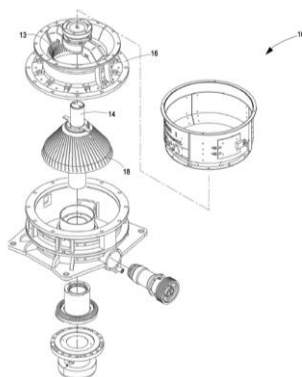
72: HARTMAN, Christopher Glyn

33: ZA 31: 2018/06874 32: 2018-10-16

#### **54: METHOD OF ESTIMATING THE END OF LIFE OF A CONE CRUSHER HOPPER LINER AND SPINDLE MANTLE**

00: -

A method of estimating the end of life of a cone crusher top frame concave liner and spindle mantle includes the steps of: (i) prior to material wear of the top frame concave liner and spindle mantle, bringing the spindle mantle into contact with the top frame concave liner and recording an initial H-reading of the spindle and associating the H-reading with a time stamp; (ii) operating the cone crusher; (iii) periodically emptying the cone crusher of feed material and bringing the spindle mantle into contact with the top frame concave liner and recording subsequent H-readings of the spindle and associating the H-readings with time stamps; (iv) determining wear of the top frame concave liner and spindle mantle from the difference between: subsequent H-readings on the one hand; and the initial H-reading; and (v) trend-lining the spindle mantle and top frame concave liner wear rate from: (a) the determined wear; and (b) the associated time lapse between: the associated time stamp; and the initial time stamp; and (vi) using the trend-lined wear rate to estimate the time for wear of the top frame concave liner and spindle mantle to reach terminal wear.



21: 2019/06056. 22: 9/13/2019. 43: 6/14/2021  
51: C12N

71: Lishui University

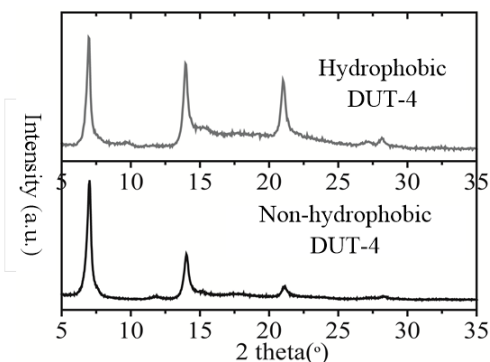
72: QIAN, Xukun, ZHANG, Ruihua

33: CN 31: 201910468823.X 32: 2019-05-31

#### **54: HYDROPHOBIC DUT-4 AND PREPARATION METHOD THEREOF**

00: -

The present invention relates to the technical field of material preparations, and in particular, to a hydrophobic DUT-4 and a preparation method thereof. The hydrophobic DUT-4 is prepared from raw materials including the following components: DUT-4 powder, silicone, and an organic solvent. The silicone comprises Dow Corning 1-2577. The mass ratio of the DUT-4 powder to the silicone is 500:20-100. The present invention utilizes the Dow Corning 1-2577 to perform hydrophobic modification on the DUT-4 to form a silicone hydrophobic layer on the surface of DUT-4. The silicone layer can effectively protect the DUT-4 from the attack of water molecules and avoid the DUT-4 from hydrolysis, thereby greatly improving water stability. Moreover, the mass ratio of the DUT-4 powder to the silicone is controlled to 500:20-100, which can prevent the silicone from blocking the pore of DUT-4 and reducing the specific surface area of DUT-4, thereby ensure the hydrogen storage performance of DUT-4. Moreover, the surface-modified DUT-4 has excellent hydrophobicity.



21: 2019/06059. 22: 9/13/2019. 43: 5/14/2021

51: A61K; A61P; C07K

71: Amgen Inc.

72: YIE, Junming, SHI, Donghui, LLOYD, David J., WANG, Jinghong, SIVITS Jr., Glenn N., VENIANT-ELLISON, Murielle M., KOMOROWSKI, Renee, AGRAWAL, Neeraj, BATES, Darren L., CLAVETTE, Brandon C. P., FOLTZ, Ian N., HO, Shu-yin, MURAWSKY, Christopher, MIN, Xiaoshan, WANG, Zhulun

33: US 31: 62/387,486 32: 2015-12-23

#### **54: METHOD OF TREATING OR AMELIORATING METABOLIC DISORDERS USING BINDING PROTEINS FOR GASTRIC INHIBITORY PEPTIDE RECEPTOR (GIPR) IN COMBINATION WITH GLP-1 AGONISTS**

00: -

Methods of treating metabolic diseases and disorders using an antigen binding protein specific for the GIPR polypeptide are provided. In various embodiments the metabolic disease or disorder is type 2 diabetes, obesity, dyslipidemia, elevated glucose levels, elevated insulin levels and diabetic nephropathy. In certain embodiments the antigen binding protein is administered in combination with a GLP-1 receptor agonist.

21: 2019/06061. 22: 9/13/2019. 43: 5/24/2021

51: E21B

71: NOVATEK MINING (PTY) LIMITED

72: WILLS, Julian Howard

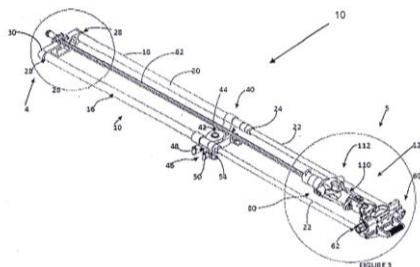
33: ZA 31: 2018/06225 32: 2018-09-17

#### **54: ROCK DRILL FEED ARRANGEMENT**

00: -

A feed arrangement for a rock drill which includes a drilling machine and a drill steel, wherein the feed arrangement includes two inter-connected and parallel actuators and structure for securing the rock drill to the actuators with the drill steel extending

parallel to the actuators, and wherein the actuators are configured to retract to provide drilling thrust to the drill steel.



21: 2019/06068. 22: 13/09/2019. 43: 6/14/2021

51: F21V; H01R; H05B

71: AURORA LIMITED

72: KELLEY, Robert

33: GB 31: 1702524.8 32: 2017-02-16

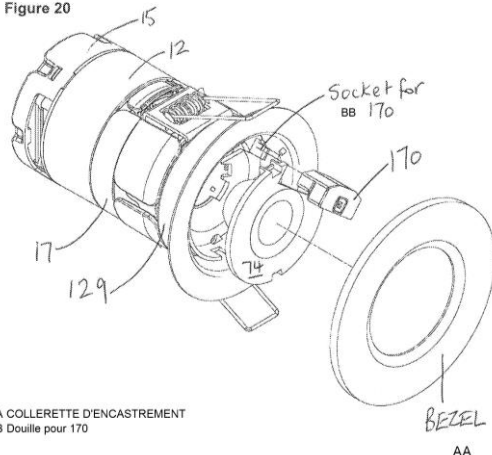
33: GB 31: 1702589.1 32: 2017-02-17

#### **54: IMPROVED DOWNLIGHT**

00: -

A luminaire assembly comprising a light emitting portion and a driver/control portion, the luminaire assembly further comprising a pluggable connecting cable adapted to form an electrical/data connection between the light emitting portion and the power/control portion, such that the power/control portion and the light emitting portion can be completely separated from each other in a disassembled configuration and attached together in an assembled configuration as and when required.

Figure 20



AA: COLLERETTE D'ENCASTREMENT  
BB: Douille pour 170

21: 2019/06094. 22: 9/16/2019. 43: 5/11/2021

51: A23L; C12R; C12N

71: GUANGXI ACADEMY OF AGRICULTURAL SCIENCES

72: SUN, JIAN, LI, LI, LI, CHANGBAO, HE, XUEMEI, ZHOU, ZHUGUI, SHENG, JINFENG, LI, JIEMIN, LIU, GUOMING, ZHENG, FENGJIN, LIAO, DONGQING, YI, PING, XIN, MING, LI, ZHICHUN, TANG, YAYUAN

33: CN 31: 201910229585.7 32: 2019-03-25

#### **54: DIETARY FIBER AND PREPARATION METHOD**

00: -

The present invention provides a dietary fiber and its preparation method thereof, and the preparation method comprises the following steps: 1) mixing mulberry pomace with water, then pulping to obtain a pomace puree; 2) adding medium components to the pomace puree, then inoculating a compound strain for fermentation, and ending the fermentation when pH of a fermentation liquid is 4-5, to obtain a fermented puree; 3) subjecting the fermented puree to an alcohol precipitation treatment, filtering and drying a precipitate, to obtain the dietary fiber; where the compound strain comprises *Lactobacillus plantarum*, *Monascus*, and *Bacillus subtilis*. The preparation method performs a mixed fermentation to mulberry pomace by choosing a compound strain, thereby not only improving the total content of the dietary fiber in a product, but also improving the content of a soluble dietary fiber in the product.

21: 2019/06125. 22: 9/17/2019. 43: 6/14/2021

51: F16J

71: SEAL RYT CORPORATION

72: WILKINSON, Mark R., MONAHAN, Thomas B.

33: US 31: 16/144,329 32: 2018-09-27

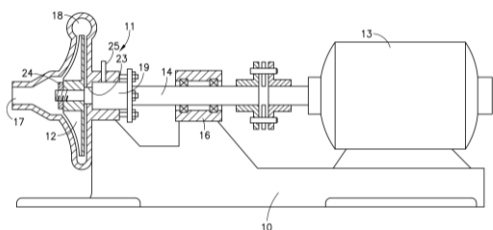
#### **54: PILLAR LANTERN RING FOR A SHAFT SEALING SYSTEM**

00: -

A fluid sealing system for a rotary mechanical device includes a pillar lantern ring having two end caps with pillars or columns connecting the end caps. A bushing or bearing seal element is positioned at the bottom of the seal cavity and the pillar lantern ring is positioned adjacent the element at the flush port with compressible packing rings between the lantern ring and the gland follower. The pillars or columns are



axial supports to prevent the ring from being crushed when the gland follower is tightened down. The pillars allow for a larger reservoir volume of flush in case of temporary flush loss compared to a conventional lantern ring with holes between the outer and inner groove surfaces of the lantern ring. The outer surface of the lantern ring is closely dimensioned to the inner bore of the stuffing box. In one embodiment the lantern ring is a suspended lantern ring with an inner diameter greater than the shaft to avoid any and all contact with the shaft in order to extend its working life.



21: 2019/06132. 22: 17/09/2019. 43: 6/14/2021  
51: E21F; F04D; F24F

71: MINETEK INVESTMENTS PTY LTD

72: BOURCIER, Remy Marcel Sydney

33: AU 31: 2017900608 32: 2017-02-23

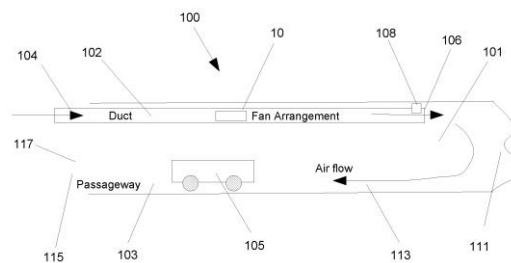
33: AU 31: 2017902986 32: 2017-07-28

#### **54: SYSTEM AND METHOD FOR DUCTED VENTILATION**

00: -

In an aspect, there is disclosed a system (100) for providing ventilation to a ventilated location (101) within a passageway (103). The system (100) includes: a duct (102) arranged to extend between an inlet location (104) to an outlet location (106) proximate the ventilated location (101); an axial fan (10) fitted with the duct having an impellor (22) adapted move air between the inlet location (104) and the outlet location (106); a controllable vane (38) located within the duct (102) relatively upstream of the impellor (22); a sensor (108) located relatively downstream of the impellor (22) adapted to provide a measurement indicative of a volumetric flow rate discharged from the outlet location (106); and a controller (112) in operative communication with the sensor (108) and the vane (38), the controller (112) being configurable to determine the volumetric flow rate and control the vane (38) so as to maintain the volumetric flow rate above a pre-determined

minimum volumetric flow rate. Other examples of the system and associated methods are also disclosed.



21: 2019/06134. 22: 17/09/2019. 43: 6/14/2021

51: F04D

71: MINETEK INVESTMENTS PTY LTD

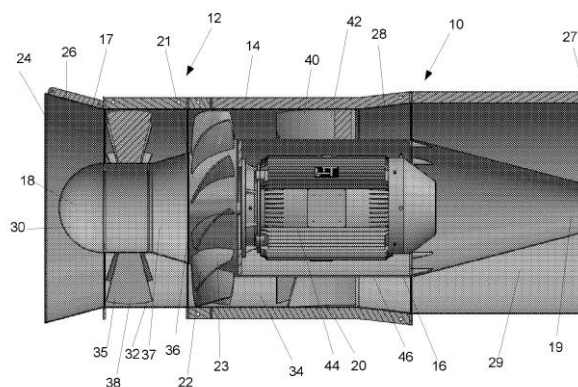
72: BOURCIER, Remy Marcel Sydney

33: AU 31: 2017900608 32: 2017-02-23

#### **54: IMPROVEMENTS IN FANS**

00: -

In an aspect there is disclosed, a fan arrangement (10) for a duct, the fan arrangement (10) including a housing (12) having an inlet (24) and an outlet (27) adapted to communicate air with the duct and an axially rotatably driven impeller (22) supported within the housing (12) between the inlet (24) and the outlet (27). The impeller (22) includes a hub (21) carrying a plurality of blades (23) that span in a radial direction outwardly of the hub (21), the plurality of blades being shaped to urge air between the inlet (24) and the outlet (27). The plurality of blades (23) may have a tip solidity ratio in the range of about 0.8 to 1.2, and each of the plurality of blades (23) may have a twist angle between a root (52) and a tip (54) thereof in the range of about 15 to 30 degrees and a substantially constant thickness. An impellor (22), a blade (23), ventilation system and related methods are also disclosed.



21: 2019/06165. 22: 18/09/2019. 43: 5/10/2021  
51: B29C; A61J

71: FRESENIUS KABI DEUTSCHLAND GMBH

72: WEGNER, GERALD, WITTORF, JÖRN

33: EP 31: 17162911.6 32: 2017-03-24

**54: PULSE WELDING METHOD AND WELDING TOOL FOR PULSE WELDING FOR A MEDICAL PACK FORMED AS A BAG**

00: -

The invention relates to a welding tool and a method for pulse welding films of plastic for medical packs formed as bags. The invention generally provides for the film material that has been plastified during welding, and is consequently free-flowing, to be specifically displaced by increasing the sealing surface area. The displaced film material can for instance compensate for dimensional and form tolerances. At the same time, however, the strength of the welded seam region, which adjoins the interior space of the bag, is not reduced.

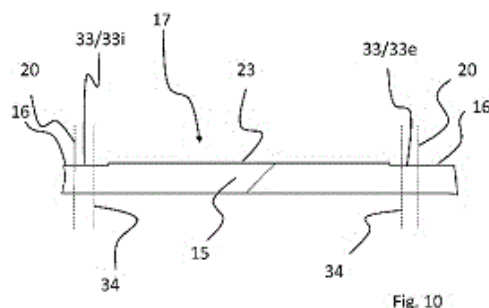
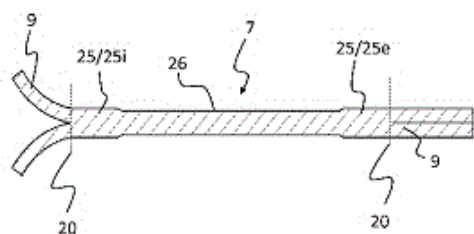


Fig. 10



21: 2019/06305. 22: 25/09/2019. 43: 5/27/2021  
51: C08B

71: CP KELCO APS

72: STAUNSTRUP, JAN AAE, TRUDSØ, JENS ESKIL, HISCOCK, DONALD F, KLIT, CARSTEN, PEDERSEN, TOMMY EWI

33: US 31: 15/892,639 32: 2018-02-09

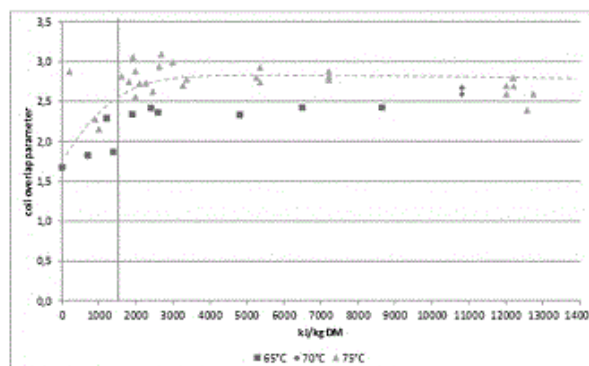
33: US 31: 62/617,860 32: 2018-01-16

33: US 31: 62/459,136 32: 2017-02-15

**54: ACTIVATED PECTIN-CONTAINING BIOMASS COMPOSITIONS, PRODUCTS, AND METHODS OF PRODUCING**

00: -

Activated pectin-containing biomass compositions are provided, and a product comprising the activated pectin-containing biomass composition derived from methods for producing an activated pectin-containing biomass composition are also provided. The method includes (A) mixing a starting pectin-containing biomass material comprising an insoluble fiber component and an insoluble protopectin component with an aqueous solution of an alcohol to form a mixture; (B) activating the starting pectin-containing biomass material to form an activated pectin-containing biomass material comprising the insoluble fiber component and a soluble pectin component by subjecting the starting pectin-containing biomass material to (i) an activating solution formed by adding acid to the mixture to adjust the pH of the mixture within the range from at or about 0.5 to at or about 2.5 and (ii) heat to a temperature greater than at or about 40 degrees Celsius; and (C) applying mechanical energy either (i) to the mixture of step A), (ii) during the activating of step B), or (iii) to the mixture of step A) and during the activating of step B); and (D) separating the activated pectin-containing biomass material from the mixture; wherein during the method the alcohol present in the mixture is at or greater than about 40 weight percent based on the total weight of the mixture.



21: 2019/06338. 22: 9/26/2019. 43: 5/7/2021  
51: A61F

71: ANCHOR OF HOPE MINISTRIES

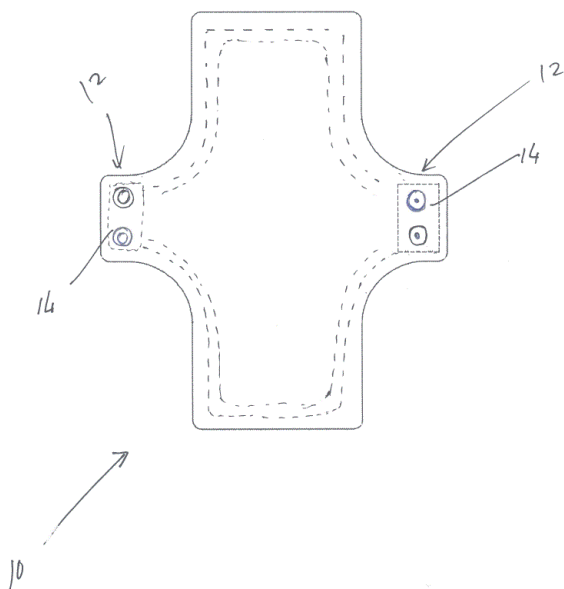
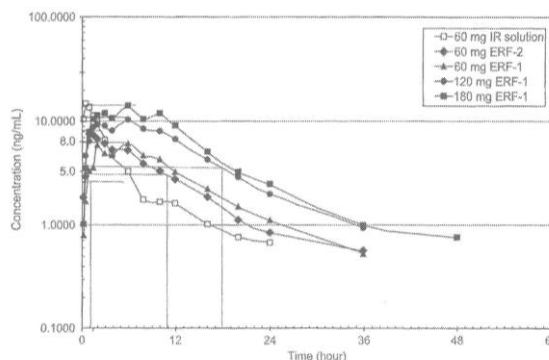
72: STROEBEL, Johanna, Susanna

33: ZA 31: 2018/06914 32: 2018-10-17

**54: MULTI LAYERED RE-USABLE SANITARY PAD**

00: -

According to the invention there is provided a multi layered re-usable sanitary pad which includes a pair of outer layers which includes a composite outer layer; and a canvas type outer layer, having enveloped thereinbetween a polyurethane based layer, a first absorbent layer, a second absorbent layer. The reusable pad further including a securing formation for releasably securing the multi layered sanitary pad onto underwear.



21: 2019/06806. 22: 10/16/2019. 43: 5/14/2021  
51: H02S

71: Sunfolding, Inc.

72: MADRONE, Leila Marcia, BETTS, Kyle Douglas, LYNN, Peter Sturt, BASEL, Louis Hong, RIDLEY, Brent, GRIFFITH, Saul Thomas, MCBRIDE, James Dylan, LAMB, Jeffrey, LIEN SUAN, Eric Preston, LIN, Erica, ERICKSON, Joshua, ROMANIN, Vincent Domenic

33: US 31: 62/110,275 32: 2015-01-30

#### **54: FLUIDIC ACTUATOR SYSTEM AND METHOD** 00: -

A pneumatically actuated solar panel array system that includes a plurality of separate actuator assemblies that each have a top plate and bottom plate and a first and second bellows that each extend between and are coupled to the top and bottom plates at a respective top head and bottom head, the first and second bellows being configured to be separately pneumatically inflated, where the pneumatic inflation expands the bellows along a length. The pneumatically actuated solar panel array system can also include a plurality of solar panels coupled to the actuator assemblies with the solar panels being configured to be actuated based on inflation of one or more bellows associated with the plurality of actuator assemblies.

21: 2019/06339. 22: 9/26/2019. 43: 5/14/2021

51: A01N; A61K; A61P

71: Trevi Therapeutics, Inc.

72: SCIASCIA, Thomas

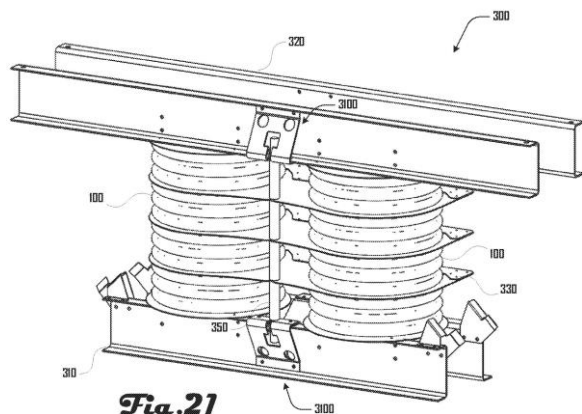
33: US 31: 61/737,488 32: 2012-12-14

33: US 31: 13/715,625 32: 2012-12-14

#### **54: METHODS FOR TREATING PRURITUS**

00: -

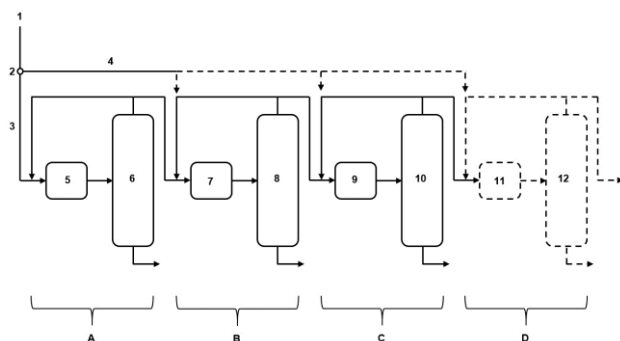
The present invention relates to methods for treating pruritus with anti-pruritic compositions.

**Fig. 21**

21: 2019/06870. 22: 10/18/2019. 43: 4/30/2021  
 51: B01J, C07C  
 71: EVONIK OPERATIONS GMBH  
 72: STOCHNIOL, Guido, SCHALLENBERG, Jörg,  
 PEITZ, Stephan  
 33: EP 31: 18201566.9 32: 2018-10-19  
**54: PROCESS FOR OLIGOMERIZING OLEFINS  
 WITH STREAMS HAVING A REDUCED OLEFIN  
 CONTENT**

00: -

The present invention relates to a process for oligomerizing C2- to C8-olefins in several reaction stages in which the starting mixture and the respective outputs from the reaction stages are separated and are fed to different reaction stages.

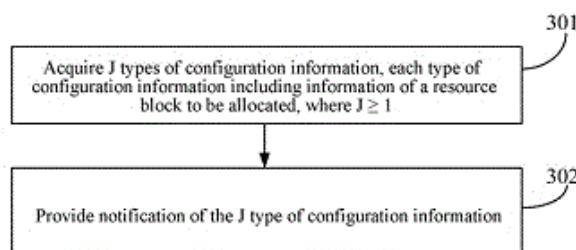


21: 2019/06921. 22: 21/10/2019. 43: 5/10/2021  
 51: H04W  
 71: GUANGDONG OPPO MOBILE  
 TELECOMMUNICATIONS CORP., LTD.  
 72: TANG, HAI  
**54: RESOURCE ALLOCATION METHOD,  
 APPARATUS AND SYSTEM**

00: -

The present invention relates to the technical field of communications. Provided are a resource allocation method, device and system applicable to access

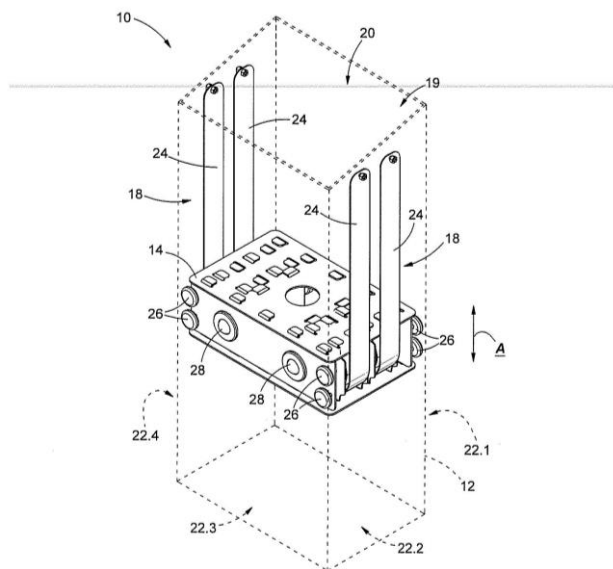
network apparatuses. The method comprises: acquiring J types of configuration information, each type of configuration information including information of a resource block to be allocated, where  $J \geq 1$ ; and providing notification of the J types of configuration information. The present invention solves a problem of less flexible resource allocation, thereby increasing flexibility in resource allocation. The present invention is applicable to resource allocation with respect to a UE unit.



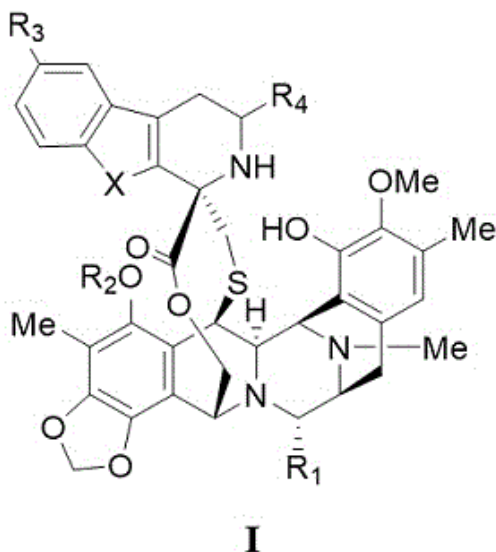
21: 2019/07090. 22: 10/28/2019. 43: 5/25/2021  
 51: B65D; B65G  
 71: OUTLINE (PTY) LTD  
 72: BRAZENDALE, John  
**54: ARTICLE DISPENSER**

00: -

This invention relates to a self-levelling article dispenser 10 for dispensing articles 16.1 to 16.n in a controlled manner, the dispenser 10 comprising a storage structure 12, an abutting member 14 for abutting one or a plurality of articles 16.1 to 16.n, and displacing means 18 for displacing the abutting member 14.

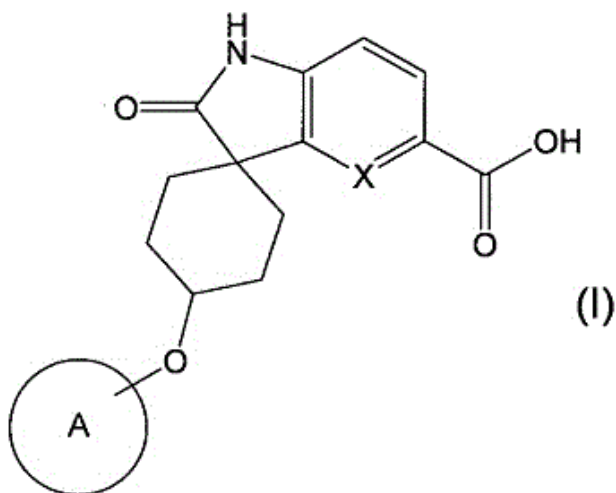


21: 2019/07119. 22: 28/10/2019. 43: 5/18/2021  
 51: C07D; A61P; A61K  
 71: PHARMA MAR, S.A.  
 72: CUEVAS MARCHANTE, MARIA DEL CARMEN,  
 FRANCESCH SOLLOSO, ANDRES, MARTINEZ  
 BARRASA, VALENTIN  
 33: EP 31: 17382497.0 32: 2017-07-26  
 33: EP 31: 17382228.9 32: 2017-04-27  
**54: ANTITUMORAL COMPOUNDS**  
 00: -  
 A compound of general formula I, wherein X, R<sub>1</sub>-R<sub>4</sub>  
 take various meanings, for use in the treatment of  
 cancer.



21: 2019/07136. 22: 29/10/2019. 43: 5/10/2021  
 51: C07D; A61K; A61P  
 71: TAKEDA PHARMACEUTICAL COMPANY  
 LIMITED  
 72: HIDAKA, KOUSUKE, FURUKAWA, HIDEKI,  
 YAMASAKI, TAKESHI, KASAI, SHIZUO, TERAQ,  
 YOSHITO, TAKAHASHI, MASASHI, HARA, RYOMA  
 33: JP 31: 2017-066579 32: 2017-03-30  
**54: IP6K INHIBITORS**  
 00: -

The present invention aims to provide a heterocyclic  
 compound having an IP6K inhibitory action and  
 expected to be useful as a prophylactic or  
 therapeutic agent for- diseases such as cardiac  
 failure, diabetes and the like. A compound  
 represented by the formula (I) : wherein each symbol  
 is as defined in the SPECIFICATION, or a salt  
 thereof has an IP6K inhibitory action and is expected  
 to be useful as a prophylactic or therapeutic agent  
 for diseases such as cardiac failure, diabetes and  
 the like.

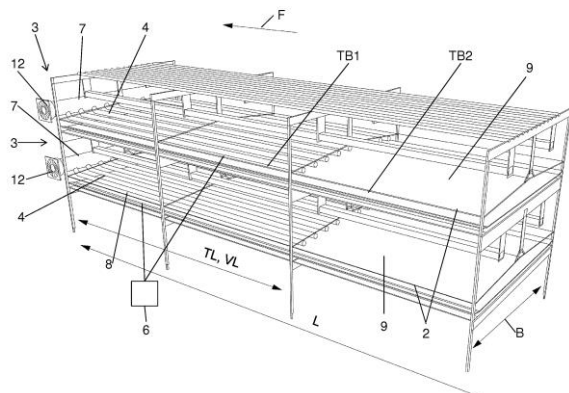


21: 2019/07266. 22: 01/11/2019. 43: 6/14/2021  
 51: A01K  
 71: INAUEN, Urs  
 72: INAUEN, Urs  
 33: EP 31: 17169253.6 32: 2017-05-03  
**54: EXCREMENT-DRYING DEVICE**  
 00: -

An excrement-drying device (1) for animal stalls,  
 such as poultry stalls, comprises an excrement  
 conveyor belt (2) for conveying the excrement along  
 a conveying direction (F), wherein the excrement  
 conveyor belt (2) extends over a conveying length  
 (L) and has a top side (10) for receiving the



excrement (K), and a drying unit (3) with at least one discharge element (4), which has at least one air nozzle (5) for blowing air onto the excrement (K) lying on the excrement conveyor belt (2) in order to dry the excrement (K). The top side (10) for receiving the excrement (K) of the excrement conveyor belt (2) is divided into several excrement conveyor belt sections (TB1, TB2) arranged one after the other in the conveying direction (F); and the at least one discharge element (4) is arranged in such a way that air is blown onto only one of said excrement conveyor belt sections (TB1, TB2).



21: 2019/07379. 22: 5/24/2019. 43: 6/14/2021  
51: C03B  
71: TUNGHSU TECHNOLOGY GROUP CO., LTD.,  
TUNGHSU GROUP CO., LTD.  
72: LI, Qing, LI, Qingwen, JIN, Xianyou, LI, Zhaoting  
33: CN 31: 201710380364.0 32: 2017-05-25  
**54: CURVED-GLASS THERMOFORMING DEVICE  
AND METHOD THEREFOR**

00: -  
A curved-glass thermoforming device and a method therefor. The curved-glass thermoforming device comprises a furnace body provided with a feed port and a discharge port. The furnace body comprises a heating section, a forming section, and a cooling section. A rotating plate that can rotate and that is used for circularly transferring glass to the heating section, the forming section and the cooling section in turn is disposed in the furnace body. Multiple female molds used for carrying glass are disposed on the rotating plate, so as to cooperate with male molds in the forming section to laminate the glass. The heating section is provided with a heating structure that can be used for directly cooperate with

the female molds to directly and locally heat the desired curved part of the glass.

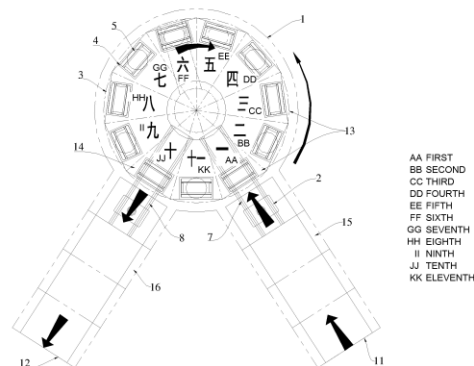
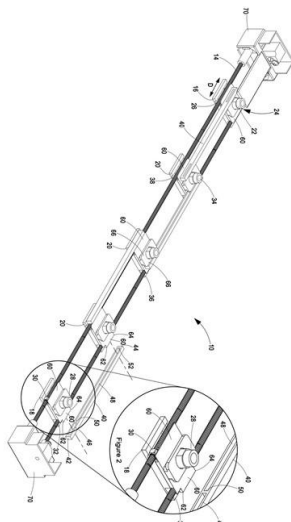


图 1

21: 2019/07393. 22: 11/7/2019. 43: 6/14/2021  
51: E06B  
71: Navus Consulting (Pty) Ltd  
72: Marlene BADENHORST  
33: ZA 31: 2019/00327 32: 2019-01-17  
**54: TRANSMISSION SYSTEM FOR A BLIND**  
00: -

THIS invention relates to a transmission system for a blind. More specifically, the invention relates to a system for transmitting drive and/or rotation to each of a plurality of slats making up such blind. The transmission system includes first and second threaded drive shafts; a first outer carriage for supporting an end of a first outer slat making up the blind, a second outer carriage for supporting an end of a second outer slat making up the blind and one or more intermediary inner carriages each for supporting an end of a respective inner slat. The first carriage threadably engages the first drive shaft such that rotary motion of the first drive shaft is transmittable therethrough into an axial sliding motion of the first outer carriage, with the second carriage threadably engaging the second drive shaft such that rotary motion of the second drive shaft is transmittable therethrough into an axial sliding motion of the second outer carriage. Each of the first and the second carriages comprise aligning guides sized and shaped for the respective second and first threaded drive shafts to pass substantially freely therethrough. The intermediary inner carriages each have a pair of aligning guides sized and shaped for

one of the first and second threaded drive shafts to pass substantially freely therethrough such that drive of the outer carriages is transmittable to the intermediary inner carriages through abutment. Consequentially, the carriages are axially movable nearer and/or into contact with one another into a compact condition to either side of a window or doorway opening to which the blind is operably fitted, or any intermediary position there between.



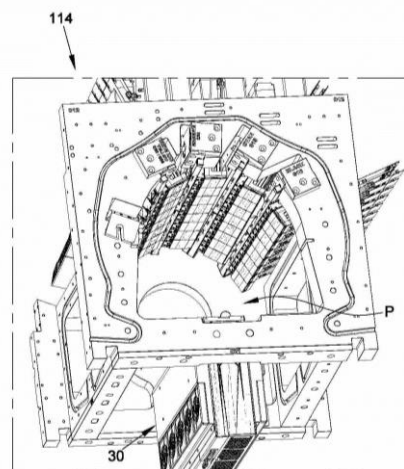
21: 2019/07545. 22: 14/11/2019. 43: 5/24/2021  
 51: C06B; C07D  
 71: DETNET SOUTH AFRICA (PTY) LTD  
 72: MULLER, Elmar Lennox, KLAPÖTKE, Thomas M., STIERSTORFER, Jörg, BÖLTER, Marc F., VÖLKL, Maurus; Paosotr  
 33: ZA 31: 2017/03279 32: 2017-05-12  
**54: A METHOD FOR PRODUCING POTASSIUM 1,1-DINITRAMINO-5,5-BISTETRAZOLATE AND EXPLOSIVE COMPOSITIONS COMPRISING SAID SALT**

00: -  
 A method of producing K2DNABT wherein a biztetrazole intermediate is nitrated using a nitrating agent selected from the following: dinitronium disulphate; a mixture of nitric acid and sulfuric acid; a mixture of nitric acid and phosphorous pentoxide; and nitric acid with acetic anhydride.

21: 2019/07655. 22: 11/19/2019. 43: 5/11/2021  
 51: B41J  
 71: Pailpac (Pty) Ltd  
 72: MURRAY, Brian

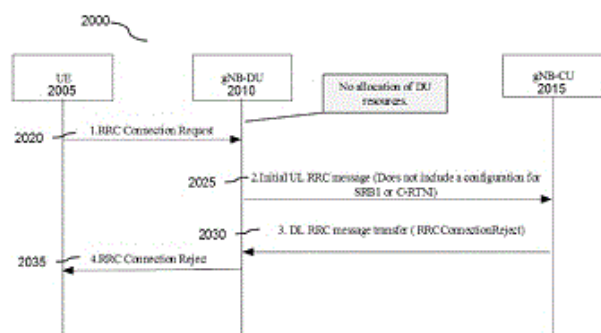
33: ZA 31: 2017/02909 32: 2017-04-26  
 33: ZP 31: 2017/02910 32: 2017-04-26  
**54: A PRINT BAR STRUCTURE, A PRINTING APPARATUS, AND A METHOD OF PRINTING**

00: -  
 This invention relates to a print bar structure, a printing apparatus and a method for printing on an outer surface of an object comprising at least one cylindrical portion, particularly a cylindrical and/or conical container. The invention also relates to a manufacturing facility and method for manufacturing containers. The printing apparatus typically comprises a print bar structure, a plurality of print heads attachable to the print bar structure, a curing device, and a displacement assembly operatively attachable to the container. The print bar structure at least partly defines a print zone, wherein the print heads and the curing device is operatively disposed in the print zone. The displacement assembly is operable to rotate object about an axis substantially aligned with the central axis relative to the plurality of print heads in the print zone such that fluid is deposited onto the object during rotation of the object.



21: 2019/07980. 22: 29/11/2019. 43: 5/10/2021  
 51: H04W  
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)  
 72: CENTONZA, ANGELO, FIORANI, MATTEO, PAPPA, IOANNA  
 33: US 31: 62/587,652 32: 2017-11-17  
**54: INFORMATION EXCHANGE FOR INITIAL USER EQUIPMENT ACCESS**  
 00: -

A method in a network node including a gNB-Distributed Unit (DU) logical node and a gNB-Central Unit (CU) logical node for determining admission of a user equipment (UE) includes the steps: the gNB-DU receiving a connection request from a UE; in response to a determination that the gNB-DU is not able to serve the UE, sending an initial uplink radio resource control (UL RRC) message that does not include a configuration for signaling radio bearer 1 (SRB1) from the gNB-DU to the gNB-CU; in response to receiving, at the gNB-CU, the UL RRC message that does not include the configuration for SRB1, responding to the gNB-DU with a radio resource control (RRC) ConnectionReject message; and transmitting the RRC ConnectionReject message from the gNB-DU to the UE to reject the UE.



21: 2019/08266. 22: 11/12/2019. 43: 6/30/2021  
 51: E01F  
 71: DRISKELL HOLDINGS LLC  
 72: DRISKELL, Gregory, GREEN, Michael  
 33: US 31: 15/871,962 32: 2018-01-15  
**54: DIRECTIONAL SURFACE MARKING SAFETY AND GUIDANCE DEVICES AND SYSTEMS**  
 00: -

The present disclosure provides for a directional surface marking (100) that provides directional messaging to users based on their direction of travel on a base surface, such as a roadway, walkway, or interior flooring, as non-limiting examples. In some aspects, the directional messaging may comprise different colors, text, or symbols, wherein a user may view different directional messaging on a directional surface marking dependent on direction of travel. In some embodiments, directional surface markings may comprise a profile layer (110), wherein the profile layer may comprise a plurality of profiles (115,

120), which may allow for an application of directional messaging.



21: 2019/08358. 22: 12/13/2019. 43: 5/24/2021  
 51: A61K; A61P; A61Q  
 71: Johnson & Johnson Consumer Inc.  
 72: GAMBOGI, Robert, PETERSEN, Latrisha, PETERSON, Sherket, GLOWACKI, Andrew, PATEL, Meenakshi

33: US 31: 62/506,783 32: 2017-05-16  
**54: COATED PARTICLES AND THEIR USES**

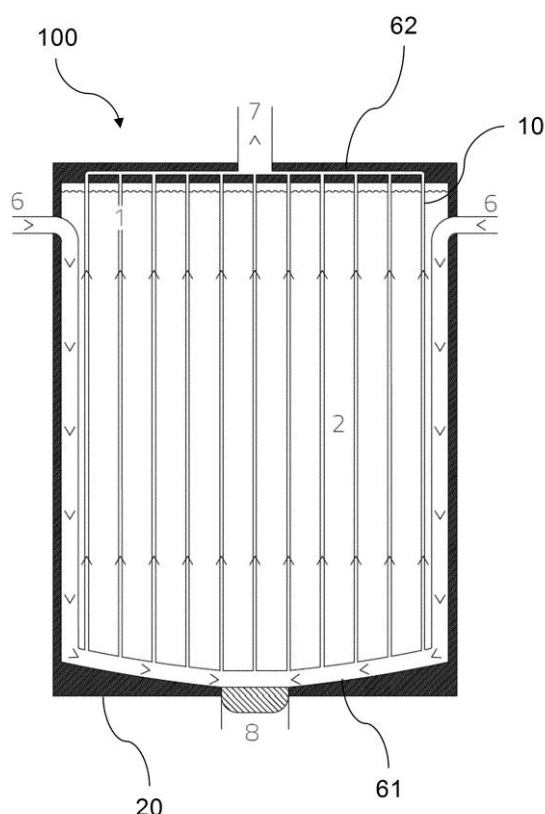
00: -

Provided are coated particles and methods of their use for providing healthcare benefits. More specifically, the present invention provides amino acid and/or polymer-coated particles, or particles coated with other materials, for binding to, or otherwise associating with, surfaces of the oral cavity

21: 2019/08367. 22: 13/12/2019. 43: 6/22/2021  
 51: G21C  
 71: SEABORG APS  
 72: SCHÖNFELDT, Troels, NIELSEN, Jimmy Sølvsteen, PETTERSEN, Eirik Eide, PEDERSEN, Andreas Vigand, COOPER, Daniel John  
 33: EP 31: 17176462.4 32: 2017-06-16  
**54: MOLTEN SALT REACTOR**  
 00: -

A device adapted for producing energy by nuclear fission, the device comprising a core container of a core container material, which core container encloses an inner tubing of an inner tubing material, the inner tubing and/or the core container having an inlet and an outlet, the device further comprising a molten fuel salt with a fissionable material and a molten moderator salt comprising at least one metal hydroxide, at least one metal deuterioxide or a combination thereof and a redox-element having a reduction potential, which is larger than that of the inner tubing material or of the inner tubing material and the core container material, wherein the molten moderator salt is located in the core container and

the molten fuel salt is located in the inner tubing, or wherein the molten fuel salt is located in the core container and the molten moderator salt is located in the inner tubing. The invention also relates to methods of controlling nuclear fission processes using the device and to the use of a molten salt comprising at least one metal hydroxide, at least one metal deuterioxide or a combination thereof and a redox-element for moderating fission neutrons created in a fission reaction process.



21: 2019/08429. 22: 12/18/2019. 43: 5/6/2021  
51: G06Q

71: HONEYWELL, Sean William

72: HONEYWELL, Sean William

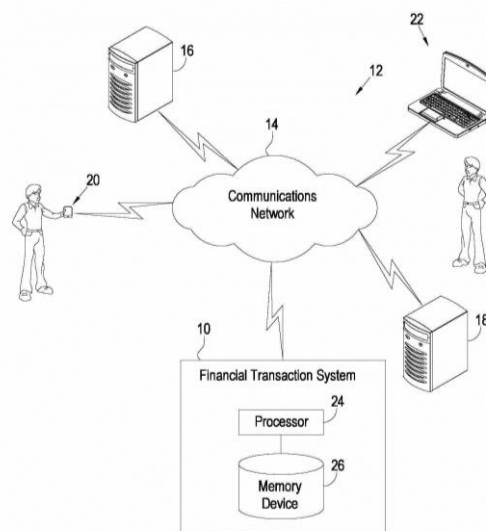
33: ZA 31: 2018/08490 32: 2018-12-18

#### **54: A FINANCIAL TRANSACTION SYSTEM AND METHOD**

00: -

The invention relates to a method of facilitating a financial transaction between a payer and beneficiary, the method including receiving, from the beneficiary, by at least one processor, an expedite clearance request message for expediting the transfer and clearance of money that is being

transferred into a financial account of the beneficiary at a financial institution associated with the beneficiary from a payer financial account at a financial institution associated with the payer; and clearing, by the at least one processor, the money into the beneficiary financial account in an expedited fashion in response to receiving the expedite clearance request message. The invention also relates to a system for, and a computer readable device containing instructions which can be executed by a processor for, carrying out the method of the present invention.



21: 2019/08613. 22: 23/12/2019. 43: 6/14/2021  
51: A24F; H05B

71: RAI STRATEGIC HOLDINGS, INC.

72: BLESS, Alfred Charles, SUR, Rajesh, SEARS, Stephen Benson, WILLIAMS, Tim

33: US 31: 15/639,634 32: 2017-06-30

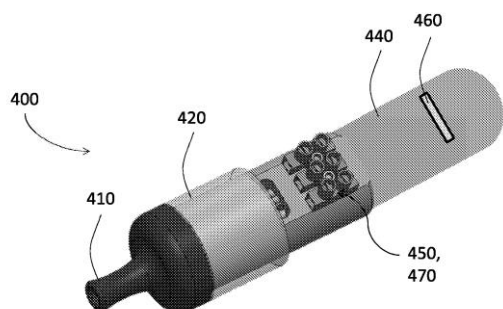
#### **54: A SMOKING ARTICLE FOR IDENTIFYING AN ATTRIBUTE OF AN AEROSOL-GENERATING ELEMENT FOR ADAPTIVE POWER OUTPUT AND AN ASSOCIATED METHOD**

00: -

A smoking article and a method for making a smoking article are provided. The smoking article includes an aerosol-generating element configured to produce an aerosol in response to heat, a housing defining a cavity configured to receive the aerosol-generating element therein, a heating element engaged with the housing and configured to provide heat to the aerosol-generating element, a power source in electrical communication with the heating



element and configured to provide electrical energy thereto, the heating element producing heat in response to the electrical energy, an aerosol-generating element identification device configured to identify an attribute of the aerosol-generating element, and a control device in communication with the aerosol-generating element identification device and configured to modulate the electrical energy provided to the heating element by the power source to direct the heating element to heat the aerosol-generating element to an aerosolization temperature associated with the identified attribute of the aerosol-generating element.



21: 2020/00007. 22: 1/2/2020. 43: 6/23/2021  
51: B24B

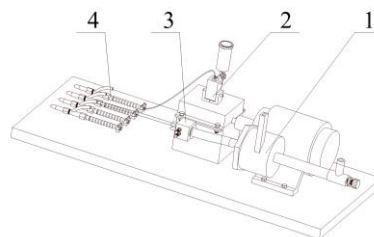
71: Qingdao University of Technology, Chongqing Shangqichuang Technology Co., Ltd  
72: LI, Changhe, LIU, Guotao, ZHAI, Mingge, CAO, Huajun, ZHANG, Haitao, ZHANG, Yanbin, YANG, Min, ZHANG, Xianpeng, WANG, Yaogang, ZHANG, Naiqing

**54: SUPERSONIC NOZZLE VORTEX TUBE REFRIGERATION AND NANO-FLUID MINIMAL QUANTITY LUBRICATION COUPLING SUPPLY SYSTEM**

00: -

The invention relates to a supersonic nozzle vortex tube refrigeration and nano-fluid minimal quantity lubrication coupling supply system. The system is composed of a low-temperature gas generating device, a nano-fluid minimal quantity lubrication supply system, a gas distribution control valve and a low-temperature oil gas external mixing atomizing nozzle. The low-temperature gas generating device adopts a supersonic nozzle to improve the outlet velocity of a vortex tube nozzle; different flow line types are formed for the flow channel of the vortex tube nozzle to improve the vortex strength of gas at

the vortex tube nozzle and improve the energy separation degree; a heat transfer enhancement measure is adopted for a vortex tube heat pipe to effectively improve the refrigerating efficiency. A motor drives the nano-fluid minimal quantity lubrication supply system to control supplied nano-fluid flow more conveniently and precisely.



21: 2020/00050. 22: 1/3/2020. 43: 5/14/2021  
51: A23F

71: Société des Produits Nestlé S.A.  
72: ELSBY, Kevan Arthur, MURPHY, Sean Mackay  
33: EP(CH) 31: 17176109.1 32: 2017-06-14

**54: METHOD FOR ROASTING COFFEE BEANS**

00: -

A method for roasting coffee beans comprising the steps of a) heating the coffee beans until the temperature of the coffee beans is at least 180°C; b) injecting a stream of oxygen-containing gas into the flow of hot air after the burner; and c) maintaining the injection of the stream of oxygen-containing gas until the end of the roasting process to mitigate the concentration of carbon monoxide in the roasting chamber, and wherein the coffee beans are roasted in a rotating fluidized bed roaster.

21: 2020/00051. 22: 1/3/2020. 43: 5/24/2021  
51: A61K; C07K

71: Janssen Biotech, Inc.  
72: CHEN, Qiang, COLE, Suzanne, DUFFY, Karen, GARDNER, Debra, GUO, Yanxia, HAMEL, Damon, HITCHCOCK, Shannon, LACOMBE, Ann, LUO, Jinquan, MALAVIYA, Ravi, ORLOVSKY, Yevgeniya, SOROOSH, Pejman, SWIECKI, Melissa, WILKINSON, Deepti  
33: US 31: 62/515,188 32: 2017-06-05

**54: ANTIBODIES THAT SPECIFICALLY BIND PD-1 AND METHODS OF USE**

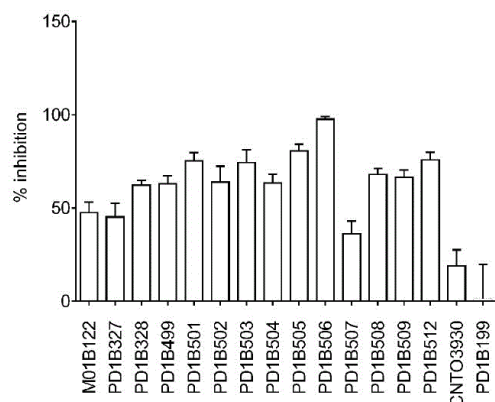
00: -

Antibodies that specifically bind PD-1 or antigen binding fragments thereof, polynucleotides encoding



the antibodies or fragments, and methods of making and using the foregoing are useful in the treatment of an inflammatory or immune disorders.

Figure 1A.



21: 2020/00059. 22: 06/01/2020. 43: 5/14/2021  
51: A61K  
71: DR. REDDY'S LABORATORIES LTD.  
72: NARASIMHA MURTHY, Aditya, GUPTA, Piyush, JANA, Arun, VALLABHADAS RATHI, Vishal, KARANTH, Girish, RAGHUVANSHI, Rajeev, Singh  
33: IN 31: 201741000065 32: 2017-07-02

#### **54: NASAL DOSAGE FORMS OF DIHYDROERGOTAMINE**

00: -

The present application relates to a nasal dosage form of dihydroergotamine, wherein said dosage form requires less than about 15 minutes for administration and requires less than four sprays to administer effective dose of dihydroergotamine for treating migraine in human subjects.

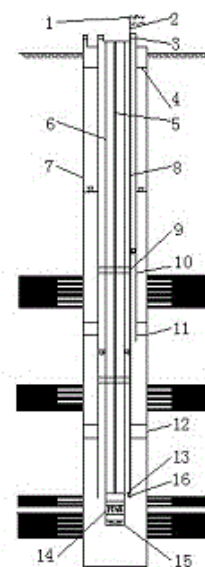
21: 2020/00092. 22: 07/01/2020. 43: 5/24/2021  
51: E21B  
71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY  
72: WU, CAIFANG, FANG, XIAOJIE, LIU, NINGNING, JIANG, XIUMING, ZHANG, SHASHA  
33: CN 31: 201811240197.0 32: 2018-10-24

#### **54: PRESSURE-CONTROLLED SINGLE-PUMP DRAINAGE DEVICE AND METHOD FOR INDEPENDENT GAS-BEARING SYSTEMS IN MULTIPLE COAL SEAMS**

00: -

Disclosed is a pressure-controlled single-pump drainage device and method for independent gas-bearing systems in multiple coal seams. The device includes an inner casing and an outer casing. An

tubing is disposed inside the inner casing, and a sucker rod is disposed inside the tubing. The bottom end of the sucker rod is connected to a tubing pump, and a sand-settling pipe is disposed at the bottom of the tubing pump. A screen pipe is further disposed above the sand-settling pipe. A packer I and a packer II are disposed between the inner casing and the outer casing. A pressure gauge cable and an annular flow-limiting valve cable are further fixed on an inner wall of the inner casing. The bottom end of the pressure gauge cable is connected to a pressure gauge which is fixedly mounted at the bottom end of the inner wall of the inner casing. The bottom end of the annular flow-limiting valve cable is connected to an annular flow-limiting valve of each independent gas-bearing system. In the present invention, a annular flow-limiting valve is mounted to control the amount of water flowing into a pump port of an inner casing, a working fluid level auxiliary pipe can separate gases produced by the independent gas-bearing systems, and a gas flowmeter is mounted at the top of the working fluid level auxiliary pipe to monitor gas production of each gas-bearing system.



21: 2020/00094. 22: 07/01/2020. 43: 5/24/2021  
51: B65D; C11D  
71: UNILEVER PLC  
72: KUMAR, ROHIT, MURTHY KAMSU, VENKATA SATYANARAYANA, ROSSMAN, JAMES MILTON, SPENADER, THOMAS FRANK, FIELDER, RICHARD CHARLES

33: US 31: 62/529682 32: 2017-07-07

33: EP 31: 17183033.4 32: 2017-07-25

**54: WATER-SOLUBLE PACKAGE**

00: -

A water-soluble package for holding a unit dose composition, the water-soluble package comprising a water-soluble substrate having a thickness from 30 micrometres to 250 micrometres, said substrate comprising: (i). a film-forming material; and, (ii). 0.2 to 5wt% surfactant; wherein the substrate has uniformly dispersed therein gas bubbles having an average diameter less than the total thickness of the substrate. Use of the water-soluble package for washing dishes or laundering textiles.

21: 2020/00096. 22: 07/01/2020. 43: 5/24/2021

51: E03C

71: GJOSA SA

72: MOCK, ELMAR, MÜLLER, MARKUS A, ANGWERD, LUC E, TAO, LI

33: CH 31: 00858/17 32: 2017-06-30

**54: AN APPARATUS FOR DISPENSING A MIXTURE OF A DILUENT AND AN ADDITIVE FOR SANITATION, COSMETIC OR CLEANING APPLICATIONS**

00: -

An apparatus for dispensing a mixture of a diluent (1) and an additive (2) for sanitation, cosmetic or cleaning applications comprises a mixing unit (10) for creating a mixture of the diluent (1) and the additive (2) a diluent supply (11) supplying the diluent (1) to the mixing unit (10), an additive supply (21) supplying the additive (2) to the mixing unit (10), an outlet (8) for dispensing the mixture, wherein the diluent supply (11) comprises a pump (51) arranged to increase the pressure of the diluent (1) before the diluent (1) enters the mixing unit (10).

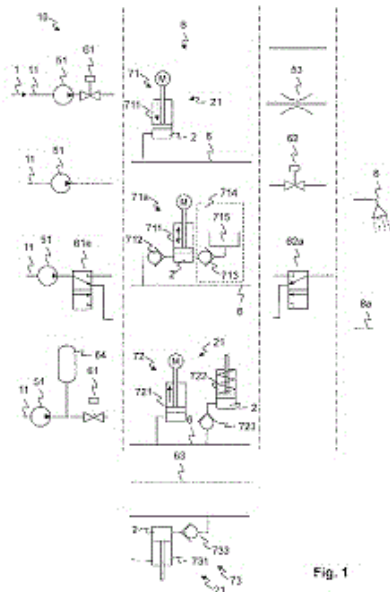


Fig. 1

21: 2020/00112. 22: 08/01/2020. 43: 5/14/2021

51: A01N; A61K; A61P

71: LOCUS AGRICULTURE IP COMPANY, LLC

72: FARMER, Sean, ALIBEK, Ken, ZORNER, Paul, S., ADAMS, Kent, MOLDAKOZHAYEV, Alibek, MAZUMDER, Sharmistha, MILOVANOVIC, Maja

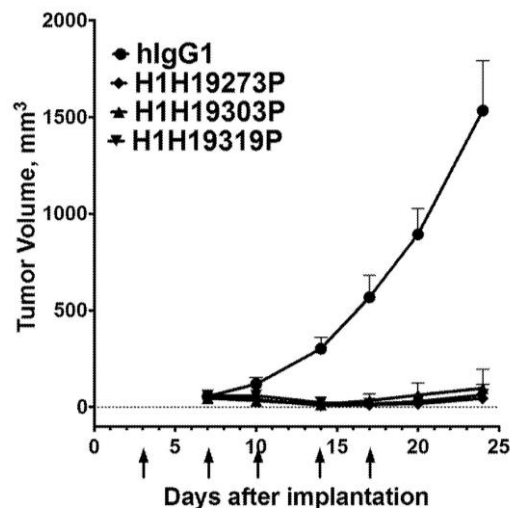
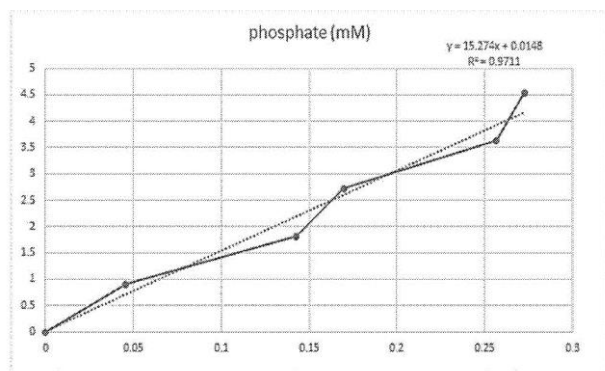
33: US 31: 62/537,670 32: 2017-07-27

33: US 31: 62/563,992 32: 2017-09-27

**54: EFFICIENT PRODUCTION OF PICHIA YEASTS AND THEIR USE FOR ENHANCING PLANT AND ANIMAL HEALTH**

00: -

The subject invention provides microbe-based compositions comprising cultivated microorganisms and/or growth by-products thereof, as well as methods and systems for producing and using these compositions. More specifically, the subject invention provides microbe-based compositions comprising biologically pure yeast selected from the Pichia clade, and/or growth by-products thereof, such as biosurfactants, enzymes and solvents. Methods of using these compositions to enhance production in agriculture, horticulture, livestock rearing and aquaculture industries are also provided.



21: 2020/00113. 22: 08/01/2020. 43: 5/14/2021  
51: C07K

71: REGENERON PHARMACEUTICALS, INC.  
72: HERMANN, Aynur, IOFFE, Ella, BUROVA, Elena, THURSTON, Gavin, OLSON, William

33: US 31: 62/537,753 32: 2017-07-27

33: US 31: 62/588,853 32: 2017-11-20

33: US 31: 62/645,284 32: 2018-03-20

33: US 31: 62/685,599 32: 2018-06-15

#### **54: ANTI-CTLA-4 ANTIBODIES AND USES THEREOF**

00: -

The present invention provides antibodies that bind to cytotoxic T-lymphocyte-associated protein 4 (CTLA-4), and methods of use. In various embodiments of the invention, the antibodies are fully human antibodies that specifically bind to CTLA-4. In some embodiments, the antibodies of the invention are useful for inhibiting or neutralizing CTLA-4 activity, thus providing a means of activating T-cells and/or for treating a disease or disorder such as cancer or viral infection.

21: 2020/00145. 22: 09/01/2020. 43: 5/14/2021

51: A61K; A61P

71: SANOFI

72: BOUABOULA, Monsif, SHOMALI, Maysoun, SUN, Fangxian

33: US 31: 62/536,121 32: 2017-07-24

33: EP 31: 17305998.1 32: 2017-07-25

#### **54: COMBINATION COMPRISING PALBOCICLIB AND 6-(2,4-DICHLOROPHENYL)-5-[4-[(3S)-1-(3-FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9-DIHYDRO-7H-BENZO[7]ANNULENE-2-CARBOXYLIC ACID AND ITS USE FOR THE TREATMENT OF CANCER**

00: -

Herein are provided a combination of palbociclib and of 6-(2,4-dichlorophenyl)-5-[4-[(3S)-1-(3-fluoropropyl)pyrrolidin-3-yl]oxyphenyl]-8,9-dihydro-7H-benzo[7]annulene-2- carboxylic acid or a pharmaceutically acceptable salt thereof, a pharmaceutical composition containing such a combination, and the therapeutic uses thereof, in particular for the treatment of cancer, including breast cancer.

21: 2020/00146. 22: 1/9/2020. 43: 5/14/2021

51: H04W

71: NOKIA TECHNOLOGIES OY

72: TURPINEN, Samuli, SEBIRE, Benoist, WU, Chunli, DU, Lei, MALKAMAKI, Esa

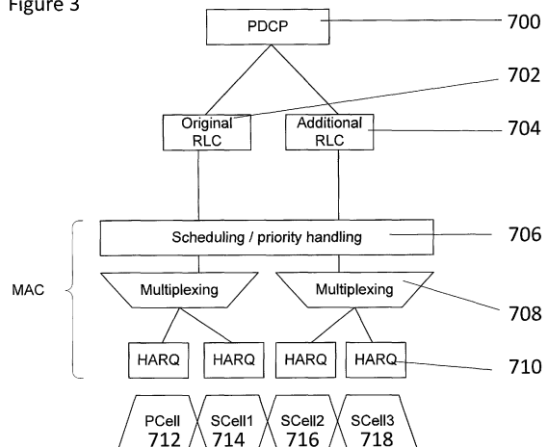
#### **54: COMMUNICATION APPARATUS, METHOD AND COMPUTER PROGRAM**

00: -

An apparatus comprises at least one processor and at least one memory including computer program

code, the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus at least to: responsive to deactivation of all of a plurality of active cells associated with a duplicate link, cause said duplicate link to be deactivated.

Figure 3



21: 2020/00173. 22: 10/01/2020. 43: 5/14/2021

51: A61J

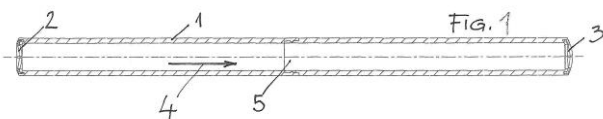
71: SISTEKS D.O.O

72: NOLIMAL, Boris

#### **54: PRE-FILLED DRINKING STRAW WITH A CROSS-SLIT VALVE CLOSURE ON BOTH ENDS**

00: -

The invention is characterized in that the straw body (1) is consisting of two or more segments, which are attached together with connection (5) and that the straw body (1) on its both ends has a cross-slit valve (2, 3) closure and the valves (2, 3) and the straw body (1) are integrated by molecular adhesion. The inlet and outlet valves (2, 3) are of a slit type. The straw body (1) is preferably made of a thermoplastic material and the valves (2, 3) are preferably made of elastomer material. The edge of the straw body (1) is shaped to enable larger surface of the connection between the straw body (1) and the valve (2, 3). The said shape is preferably a groove (8). On the wall on the end of the straw body (1) a tongue-shaped groove (9) is formed on the surface side.



21: 2020/00185. 22: 1/10/2020. 43: 5/14/2021

51: G08B; H04Q

71: Cabeau, Inc.

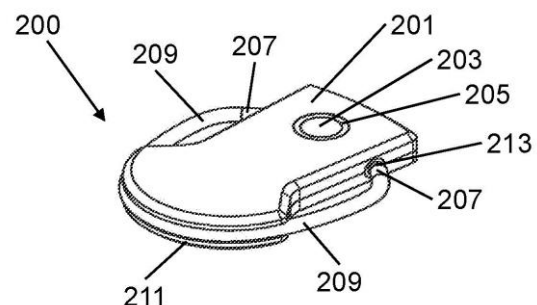
72: STERNLIGHT, David Bret, DIXON, Kevin, WILKENING, John, CHRISTIANSEN, Troy Osmond, CROSS, Joshua Seth Mark

33: US 31: 62/532,881 32: 2017-07-14

#### **54: LOCKING DEVICE WITH TRACKING FUNCTIONALITY**

00: -

Disclosed herein are locking devices having tracking functionality. In some embodiments, the locking devices may include a connector arm configured to engage with and secure an object to the locking device, and a housing. The housing may include a locking module comprising a locking mechanism configured to releasably secure and engage the connector arm with the locking device, and a plurality of unlocking mechanisms configured to release and disengage the connector arm from the locking device. The housing may also include a tracking module configured to determine the location of the locking device, a search alert module configured to provide a search alert notification to a user of the locking device responsive to the use of at least one of the plurality of unlocking mechanisms, a distress module configured to provide a distress notification to a designated contact of the user of the locking device, a tamper module configured to determine unauthorized access to at least one of the connector arm and the housing, and a communications module configured to receive and transmit signals for operating one or more of the locking module, the tracking module, search alert module, distress module, and tamper module.



21: 2020/00190. 22: 1/10/2020. 43: 5/14/2021  
 51: F16B; F21S; F21V; F21W  
 71: SCHREDER S.A.

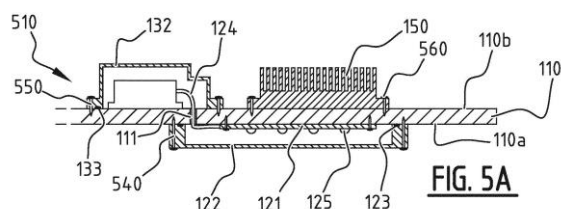
72: JORIS, Philippe, PLUIMERS, Guy, MAGHE, Laurent

33: BE 31: 2017/5514 32: 2017-07-19

#### **54: MODULAR LUMINAIRE HEAD**

00: -

A luminaire head comprising: a mounting plate made of a thermally conductive material and having a first surface and a second surface; a light module provided at the first surface of the mounting plate comprising a support substrate in contact with the first surface of the mounting plate such that the support substrate and the mounting plate are thermally connected, at least one light emitting element disposed on the support substrate, a cover comprising a portion in a transparent or a translucent material, said cover extending over the support substrate and being fixed to the mounting plate such that light emitted by the at least one light emitting element is emitted through the portion in a transparent or a translucent material, a seal arranged between the cover and the first surface of the mounting plate; said seal surrounding the support substrate.



21: 2020/00207. 22: 13/01/2020. 43: 6/3/2021

51: A01N

71: VADAKEKUTTU, Thankapan, SAWANT, Arun Vitthal

72: VADAKEKUTTU, Thankapan, SAWANT, Arun Vitthal

33: IB 31: PCT/IN2017/050408 32: 2017-09-18

33: IN 31: 201721016449 32: 2017-05-10

33: IN 31: 201721021720 32: 2017-06-21

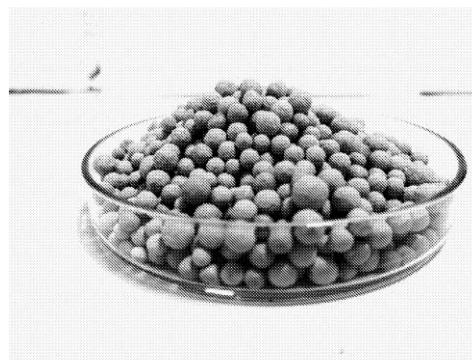
33: IN 31: 201721024425 32: 2017-07-11

#### **54: AGRICULTURAL COMPOSITIONS**

00: -

The invention relates to an agricultural water disintegrable granular composition. More particularly, the invention relates to a water

disintegrable granular composition, where the granules include at least one water insoluble crop nutrient or algae or pesticidal active ingredient, and one or more agrochemically acceptable excipient, whereby the granules have a bulk density of less than 1.5 gm/ml and hardness of at least 1 Newton. The present invention also provides a process of preparing the water disintegrable granular composition and a method of fortification of the plants or the soil or the plant propagation material or locus thereof with the water disintegrable granular composition.



21: 2020/00208. 22: 13/01/2020. 43: 5/14/2021

51: A61K; C07D; A61P

71: NOVARTIS AG

72: BECKWITH, Rohan, Eric, John, BONAZZI, Simone, CERNIJENKO, Artiom, FAZAL, Aleem, TICHKULE, Ritesh, Bhanudasji, VISSER, Michael, Scott

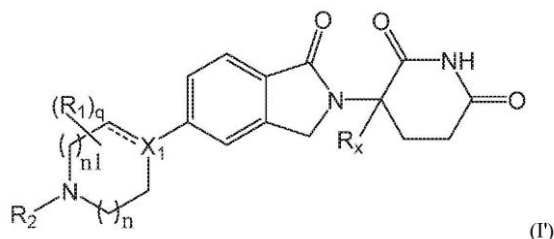
33: US 31: 62/549,225 32: 2017-08-23

#### **54: 3-(1-OXISOINDOLIN-2-YL)PIPERIDINE-2,6-DIONE DERIVATIVES AND USES THEREOF**

00: -

The present disclosure provides a compound of Formula (I): or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof, wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>x</sub>, X<sub>1</sub>, n, n<sub>1</sub>, and q are as defined herein, methods of making and use for the treatment of IKAROS Family Zinc Finger 2 (IKZF2)-dependent diseases or disorders or where reduction of IKZF2 or IKZF4 protein levels can ameliorate a disease or disorder.





21: 2020/00215. 22: 1/13/2020. 43: 5/14/2021

51: A61K; A61P

71: Janssen Pharmaceutica NV

72: ANDRIES, Koenraad Jozef Lodewijk Marcel,  
BERNINI, Maristella, BASSTANIE, Esther Dina  
Guido

33: EP(BE) 31: 17181354.6 32: 2017-07-14

#### **54: LONG-ACTING FORMULATIONS**

00: -

This invention concerns pharmaceutical compositions for administration via intramuscular or subcutaneous injection, comprising micro- or nanoparticles of the anti- TB compound bedaquiline, suspended in an aqueous pharmaceutically acceptable carrier, and the use of such pharmaceutical compositions in the treatment and prophylaxis of a pathogenic mycobacterial infection.

21: 2020/00245. 22: 14/01/2020. 43: 5/24/2021

51: A23B; A61K; A61L; F26B

71: ENWAVE CORPORATION

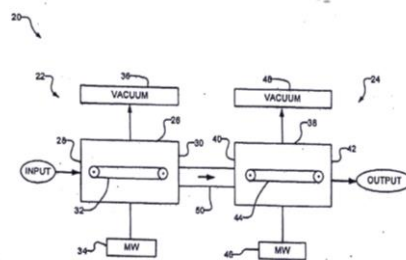
72: DURANCE, Timothy D., SANDBERG, Gary, FU,  
Jun, ZHANG, Guopeng

#### **54: METHOD AND APPARATUS FOR PASTEURIZING AND DEHYDRATING MARIJUANA**

00: -

A method and apparatus for pasteurizing and drying marijuana plant materials using a microwave-vacuum chamber. The pasteurizing and drying are carried out with no use of ionizing radiation and with rapid drying. Pasteurization is done at a temperature and for a time period that are sufficient to reduce microorganisms to an acceptably low level, while not significantly reducing the psychoactive compounds in the material. In the process, the pressure inside a vacuum chamber is reduced to a first pressure less than atmospheric. The material is maintained in the vacuum chamber at the first pressure at a pasteurizing temperature while irradiating the material with microwave radiation. The pressure is then reduced to a second pressure lower than the

first pressure and the material is maintained in the vacuum chamber at the second pressure for a time period at a dehydrating temperature lower than the pasteurizing temperature while irradiating the material with microwave radiation. The pasteurizing and dehydrating steps can be done in the reverse order.



21: 2020/00265. 22: 15/01/2020. 43: 5/14/2021

51: A61K; C07C

71: RIKEN, NATIONAL INSTITUTES FOR  
QUANTUM AND RADIOLOGICAL SCIENCE AND  
TECHNOLOGY

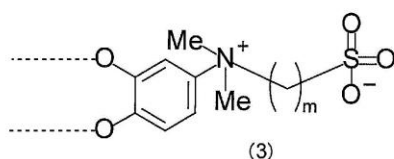
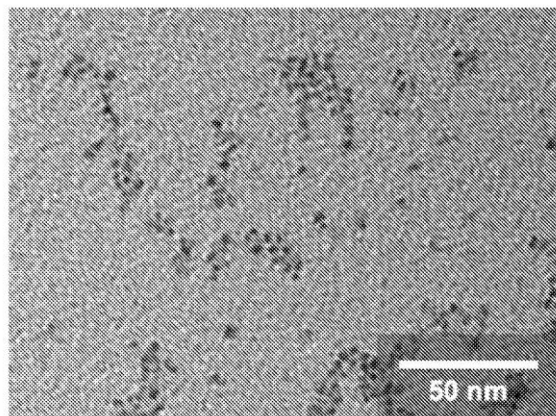
72: MIYAJIMA, Daigo, TAKEUCHI, Toshiaki, SIM,  
Seunghyun, AIDA, Takuzo, AOKI, Ichio

33: JP 31: 2017-126755 32: 2017-06-28

#### **54: NANOPARTICLE, CONTRAST AGENT FOR MAGNETIC RESONANCE IMAGING CONTAINING SAME, AND LIGAND COMPOUND**

00: -

Provided is a novel nanoparticle, a contrast agent for magnetic resonance imaging containing the same, and a ligand compound used for the production of the nanoparticle. The present invention relates to a nanoparticle including: a metal particle containing ferric oxide; and a ligand represented by formula (3), where the ligand is bonded to a metal atom on the surface of the metal particle. (In the formula, m is an integer of 1 to 4, and the broken line represents a coordinate bond with a metal atom on the metal particle surface.)



21: 2020/00309. 22: 1/16/2020. 43: 5/14/2021  
51: B65D

71: Airnov, Inc.

72: LEBON, Jacquy, BOIS, Dominique

33: EP(FR) 31: 17177381.5 32: 2017-06-22

**54: OUTER CAP FOR A CHILD-RESISTANT CLOSURE, CHILD-RESISTANT CLOSURE, CONTAINER WITH SUCH CLOSURE AND ITS USE**

00: -

A child-resistant closure (10) for a container (20) with an outer screw thread opening, comprises an outer cap (12) with a first sidewall (16) and a first top wall (18) and an inner cap (14) with a second sidewall (42) and a second top wall (44), the inner cap (14) being coaxially nested within the outer cap (12) and being provided with an inner thread (36) to screw the inner cap (14) onto the container (20), the outer cap (12) and the inner cap (14) being provided with first cooperating engagement means (62, 66), the first engagement means (62, 66) being arranged and shaped such that when opening the closure (10), the inner cap (14) is rotated by the outer cap (12) upon application on the outer cap (12) of an axial force plus a turning mechanical torque in a first rotational direction, and second cooperating engagement means (60, 68) which are arranged between the first top wall (18) and the second top wall (44) and shaped such that when closing the closure (10), the inner cap (14) is rotated by the outer cap (12) upon

application of a turning mechanical torque in a second rotational direction on the outer cap (12), the second cooperating engagement means comprising a plurality of strip-like elastic members (60) wherein each strip-like elastic member (60) is inclined relative to the first top wall (18) and comprises a reinforcing element (61) arranged between the first (18) or second top wall (44) and the strip-like elastic member (60) connected thereto.

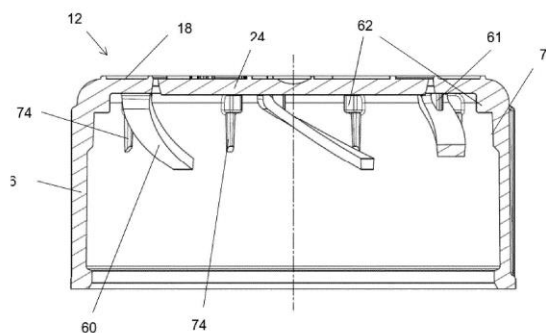


Fig. 5

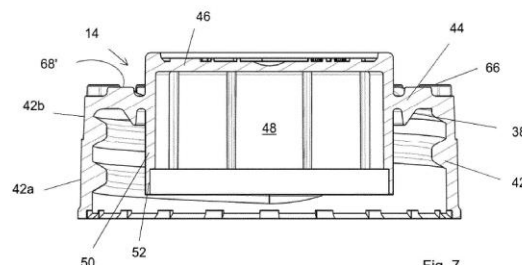


Fig. 7

21: 2020/00387. 22: 20/01/2020. 43: 6/3/2021  
51: B65D

71: THEJO ENGINEERING LTD.

72: KALLARACKAL, Manoj Joseph, R, Harikrishnan, E, Manimaran, D, Moses

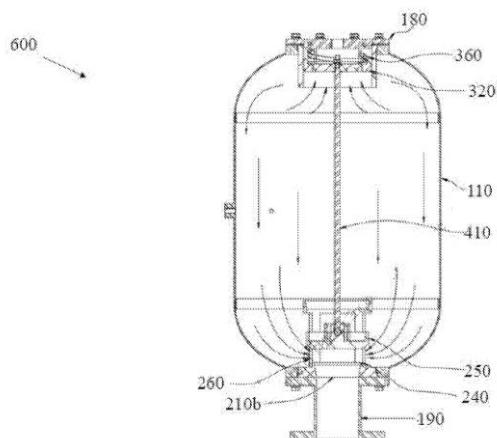
33: IN 31: 201741021571 32: 2017-06-20

**54: AIR BLASTER**

00: -

The present invention provides an air blaster 100 for removing jammed materials. The air blaster 100 includes a tank 110 filled with compressed air and a dual piston assembly 400 inside the tank 110 for triggering a blast with minimum energy loss and high impact force. The piston assembly 400 includes an inlet piston 320 connected to an outlet piston 250 with a coupling mechanism such that the inlet piston 320 and the outlet piston 250 move in tandem and pressure acting on the inlet piston 320 and outlet

piston 250 pushes the assembly 400 towards top of the tank 110 thereby compressing a dampening device/spring 360. The force produced by the instant discharge of air creates a strong blast of air in the tank 110.



21: 2020/00399. 22: 21/01/2020. 43: 5/14/2021

51: A61K; C07D; A61P

71: RECORDATI INDUSTRIA CHIMICA E FARMACEUTICA SPA

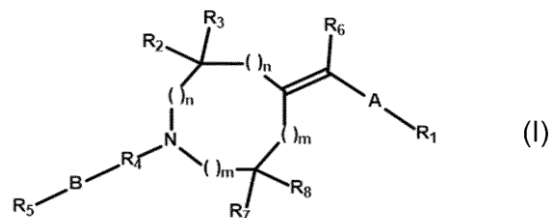
72: RIVA, Carlo, GRAZIANI, Davide, LONGHI, Matteo, CALLEGARI, Elisa, FRIGERIO, Fabio, ANGELICO, Patrizia

33: US 31: 62/526,762 32: 2017-06-29

**54: HETEROCYCLYL METHYLIDENE DERIVATIVES AND THEIR USE AS MODULATORS OF MGLUR5 RECEPTORS**

00: -

This invention relates to compounds of formula (I) and their use as allosteric modulators of mGluR5 receptor activity, pharmaceutical compositions containing the same, and methods of using the same as agents for the treatment and/or prevention of neurological and psychiatric disorders associated with glutamate dysfunction, such as schizophrenia or cognitive decline, dementia or cognitive impairment, or other pathologies that can be related directly or indirectly to glutamate dysfunction.



21: 2020/00424. 22: 22/01/2020. 43: 5/14/2021

51: B41M; C08K; H01B

71: BOREALIS AG

72: KULSHRESHTHA, Bhawna, YALALOV, Denis, COSTA, Francis, BERGFORS, Fredrik

33: EP 31: 17194849.0 32: 2017-10-04

**54: POLYOLEFIN COMPOSITION FOR ENHANCED LASER PRINTING**

00: -

A polyolefin composition for use as an outer layer of a cable is described, wherein the polyolefin composition comprises a multimodal olefin copolymer and carbon black and UV agent; wherein the multimodal olefin copolymer has density of 0.915-0.960 g/cm<sup>3</sup>, MFR<sub>2</sub> of 0.1-10 g/10 min, wherein carbon black in the polyolefin composition is present in an amount of 0.25-1 wt%, and wherein the polyolefin composition has shrinkage of 1% or lower.

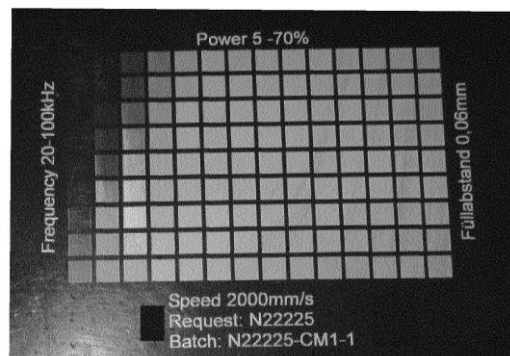


Fig. 1 Sample 1 with 0.25 wt% Carbon black

21: 2020/00446. 22: 1/22/2020. 43: 5/14/2021

51: H05B

71: SCHREDER S.A.

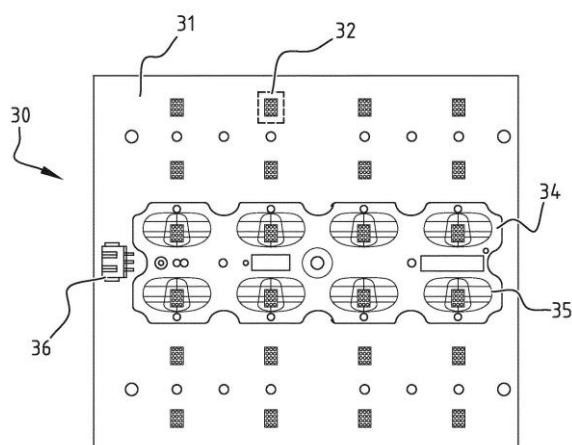
72: CAPRARA, Roxane, DELVAUX, Michel

33: BE 31: 20175518 32: 2017-07-24

**54: LIGHTING APPARATUS WITH CONTROLLABLE LIGHT DISTRIBUTION**

00: -

A lighting apparatus comprising: a support substrate; a plurality of subsets mounted on the support substrate, said plurality of subsets comprising at least a first subset having a plurality of LEDs and a second subset having at least one LED; a corresponding plurality of lens elements mounted such that each subset is covered by a lens element of the plurality of lens elements; wherein LEDs of the plurality of subsets are divided in a plurality of groups; wherein the plurality of groups comprises at least, a first group of LEDs comprising at least one LED of the first subset and at least one LED of the second subset, and a second group of LEDs comprising at least one LED of at least the first subset; a drive and control means configured to drive selectively the plurality of groups of LEDs wherein LEDs of the same group are driven simultaneously.



21: 2020/00463. 22: 1/23/2020. 43: 5/14/2021  
51: C07C

71: Nouryon Chemicals International B.V.  
72: GÓRAK, Andrej, SKIBOROWSKI, Mirko,  
KUHLMANN, Hanns, RANFT, Daniel  
33: EP(NL) 31: 17178753.4 32: 2017-06-29

**54: PROCESS FOR RECOVERING ACETIC ACID FROM AN AQUEOUS STREAM COMPRISING THE SAME**

00: -

The present invention pertains to a process for recovering acetic acid from an aqueous stream containing acetic acid, comprising the steps of (a) contacting the aqueous stream with tri-n-octylamine and 1-undecanol, with the weight ratio between tri-n-octylamine and 1-undecanol being between 0.8 : 1 and 5 : 1, to produce (I) an organic phase

comprising acetic acid, tri-n-octylamine and 1-undecanol, and (II) an aqueous phase; and (b) isolating acetic acid from the organic phase (I).

21: 2020/00479. 22: 24/01/2020. 43: 5/14/2021  
51: C07C

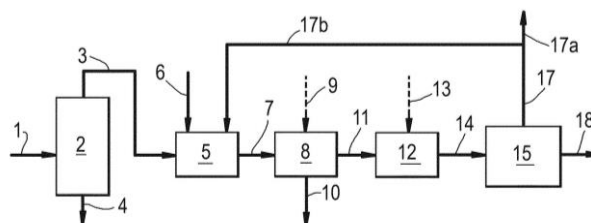
71: SHELL INTERNATIONALE RESEARCH  
MAATSCHAPPIJ B.V.

72: CALVO, Laura, Mariel, ESPOSITO CASSIBBA, Ivana, Daniela, MITKIDIS, Georgios, PAJAND, Pejman, VAN ROSSUM, Guus, SAN ROMAN MACIA, Maria, SCHOONEBEEK, Ronald, Jan, KLUSENER, Peter, Anton, August

33: EP 31: 17386028.9 32: 2017-08-16

**54: ETHANE OXIDATIVE DEHYDROGENATION**  
00: -

The invention relates to a process for oxidative dehydrogenation of ethane, comprising the steps of: (a) subjecting a stream comprising ethane to oxidative dehydrogenation conditions; (b) removing water from at least part of the effluent resulting from step (a); (c) optionally removing unconverted oxygen and/or carbon monoxide and/or acetylene from at least part of the stream comprising ethylene, unconverted ethane, carbon dioxide, optionally unconverted oxygen, optionally carbon monoxide and optionally acetylene resulting from step (b); (d) removing ethylene from at least part of the stream comprising ethylene, unconverted ethane and carbon dioxide resulting from step (b) or (c) by a complexation separation method; (e) partially and selectively removing carbon dioxide from at least part of the stream comprising unconverted ethane and carbon dioxide resulting from step (d); (f) recycling at least part of the stream comprising unconverted ethane and carbon dioxide resulting from step (e) to step (a).



21: 2020/00481. 22: 24/01/2020. 43: 6/3/2021  
51: A01K

71: MENARD, Serge

72: MENARD, Serge

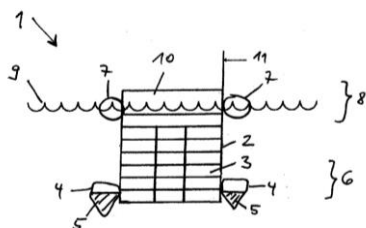
33: FR 31: 1700689 32: 2017-06-27



**54: FLOATING AND SUBMERSIBLE OFFSHORE AQUACULTURE INSTALLATION**

00: -

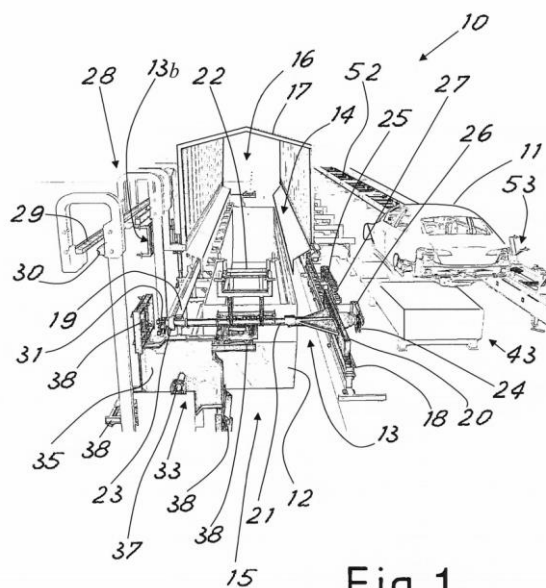
The invention relates to a floating and submersible high-sea aquaculture installation. The objective of the present invention is to create a floating and submersible high-sea aquaculture installation that offers better stability, particularly in its submerged or semi-submerged state. According to the invention, this objective is achieved by a floating and submersible high-sea aquaculture installation (1) comprising a structure (2), fish-rearing cages (3) and at least two first adjustable-ballast floats (4) which are located in the bottom third of the structure (2). The installation (1) according to the invention is characterized in that it further comprises at least two second floats (7) which are located in the top third (8) of the structure and which are able to support at most 50% of the weight of the structure.



21: 2020/00486. 22: 24/01/2020. 43: 5/14/2021  
 51: B65G  
 71: GEICO SPA  
 72: GABRIONE, Giambattista, FRUSTACI, Salvatore  
 33: IT 31: 102017000088764 32: 2017-08-01  
**54: PLANT FOR IMMERSION OF BODYWORKS**  
 00: -

A plant for the treatment of car bodies (11) comprises a plurality of car body transport units (13), a first transport line (14) along which the transport units with the car bodies move sequentially so as to pass over at least one treatment tank (12) and immerse the car bodies in the tank, and a second transport line (28) along which the empty transport units are brought back. The second transport line (28) is adapted to transport the transport units (13) rotated on one side vertically relative to their normal position for transporting the car bodies and a first and a second transfer device (32, 33) are provided for picking up a transport unit from the first transport line (14), rotating it on one side vertically so as to bring it into a return condition, and delivering it to the

second transport line (28) and for then picking up a transport unit from the second transport line (28) in the return condition, rotating it into the normal position for transporting the car bodies and delivering it again to the first transport line (14).

**Fig.1**

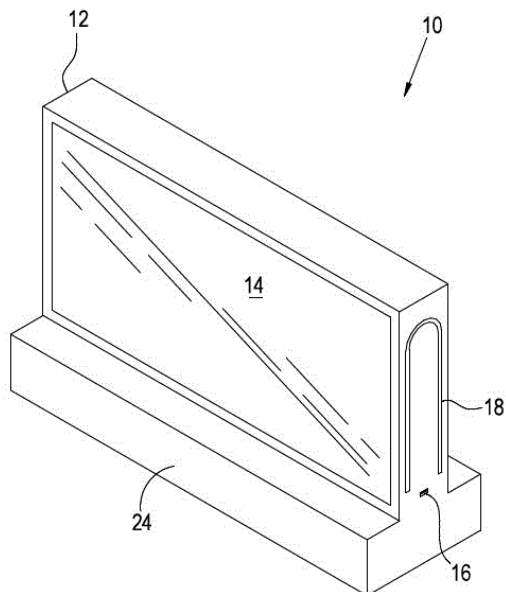
21: 2020/00521. 22: 1/27/2020. 43: 5/14/2021  
 51: G06F; G09F; H02J  
 71: Brand Tech SA (Pty) Ltd.  
 72: WALKER, Grant Robert James, STUART, Dylan Jon

33: ZA 31: 2018/08590 32: 2018-12-20  
**54: TABLE ADVERTISING CHARGING STATION**  
 00: -

In broad terms, this invention relates to a table advertising charging station comprising a housing for accommodating a display screen for displaying advertising; a controller to manage the advertising being displayed; a port to receive a charging cable and/or a charging cable that can be plugged into a mobile device; and a charging module to charge the mobile device once it is plugged into the charging station. In an embodiment, the charging station includes a wireless charger, typically proximate a base portion of the housing, to enable wireless charging of mobile devices placed on top of, or proximate, the base portion. In an embodiment, the charging station includes an advertising module, which includes the controller, a storage module and a communications module. The communications module receives advertisements wirelessly, via any



communications protocol, and is also arranged to communicate wirelessly with the user's mobile device, if/when required.



21: 2020/00530. 22: 27/01/2020. 43: 5/14/2021  
51: A61K; A61P  
71: ALLERGAN, INC.

72: LI, Yong-Xin, POLOSO, Neil, J., DONELLO, John, E., LIU, Qianrong  
33: US 31: 62/537,853 32: 2017-07-27

**54: PROSTACYCLIN RECEPTOR AGONISTS FOR REDUCTION OF BODY FAT**

00: -

Prostacyclin (PGI<sub>2</sub>) analogues which are agonists of the prostacyclin receptor (PI) are demonstrated to activate lipolytic activity in adipocytes. Also described are pharmaceutical compositions and methods for using the PGI<sub>2</sub> receptor agonists to reduce subcutaneous adipose tissue and to treat or reduce symptoms of obesity-related diseases or disorders such as diabetes mellitus, fatty liver disease and cardiovascular disease.

21: 2020/00573. 22: 1/29/2020. 43: 6/10/2021  
51: C10B; C10L

71: Indian Oil Corporation Limited

72: PRASAD, Terapalli Hari Venkata Devi, PRADEEP, Ponoly Ramachandran, DAS, Satyen Kumar, KUMAR, Kamal, KARUMANCHI, Ramesh, SAU, Madhusudan, BHATTACHARYYA, Debasis,

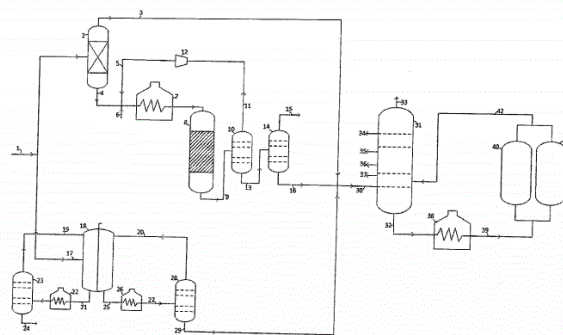
MAZUMDAR, Sanjiv Kumar, RAMAKUMAR, Sankara Sri Venkata

33: IN 31: 201921014283 32: 2019-04-09

**54: PROCESS FOR PRODUCTION OF ANISOTROPIC COKE**

00: -

The present invention relates to a process for production of anisotropic coke from a hydrocarbon feedstock and a system for producing the same. More particularly, the present invention relates to a thermal cracking of heavy petroleum residue producing petroleum coke and lighter hydrocarbon products. The invented process utilizes a novel scheme for production of a premium quality coke from primarily, a clarified oil feedstock. Clarified oil from fluid catalytic cracking unit is routed through a process scheme comprising a separator column, hydro-treatment section and an aromatic extraction section to create an ad-mix of effluents which form the feedstock to a thermal cracking unit. Premium quality anisotropic coke is produced in the thermal cracker reactor drums under tailor made process conditions employing the said feedstock.



21: 2020/00585. 22: 29/01/2020. 43: 5/14/2021  
51: A61K; C07D; A61P

71: GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, BIOVERSYS AG

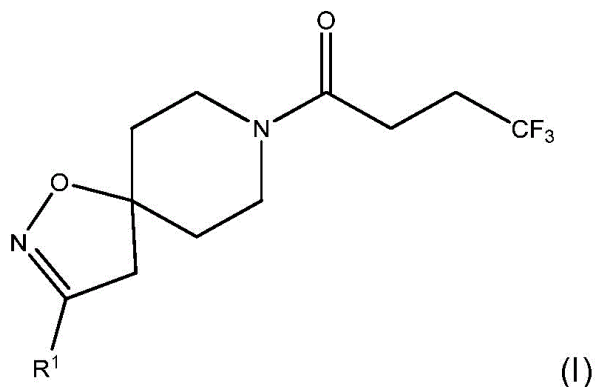
72: PORRAS DE FRANCISCO, Esther, REMUIÑAN-BLANCO, Modesto Jesús, BOUROTTE, Marilyne, DEPRez, Benoit, WILLAND, Nicolas

33: EP 31: 17382569.6 32: 2017-08-16

**54: NOVEL COMPOUNDS**

00: -

The invention relates to compounds of Formula (I) and their use in therapy, for example in the treatment of mycobacterial infections or in the treatment of diseases caused by mycobacterium, such as tuberculosis.



21: 2020/00588. 22: 1/29/2020. 43: 5/14/2021  
51: C07F C08K  
71: BASF SE

72: KING, III, Roswell, E., HOELZL, Werner  
33: US 31: 62/691,202 32: 2018-06-28  
33: EP 31: 17180079.0 32: 2017-07-06

**54: STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND ACID SCAVENGERS**

00: -

Polyolefin compositions comprising i) a polyolefin, ii) one or more phosphorus- containing benzofuranone compounds and iii) one or more acid scavengers are provided excellent protection against discoloration and enhanced thermal stability during melt processing as exhibited by improved retention of molecular weight and maintenance of polymer molecular architecture.

21: 2020/00589. 22: 1/29/2020. 43: 5/14/2021  
51: C07F C08K  
71: BASF SE

72: KING, III, Roswell, E., HOELZL, Werner  
33: US 31: 62/691,211 32: 2018-06-28  
33: EP 31: 17180079.0 32: 2017-07-06

**54: STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND HINDERED AMINE LIGHT STABILIZERS**

00: -

Polyolefin compositions comprising i) a polyolefin, ii) one or more phosphorus- containing benzofuranone compounds and iii) one or more hindered amine light stabilizers are provided excellent protection against discoloration and enhanced thermal stability during melt processing as exhibited by improved retention of molecular weight and maintenance of polymer molecular architecture.

21: 2020/00591. 22: 1/29/2020. 43: 5/24/2021  
51: C07F C08K

71: BASF SE

72: KING, III, Roswell, E., HOELZL, Werner

33: US 31: 62/691,199 32: 2018-06-28

33: EP 31: 17180079.0 32: 2017-07-06

**54: STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND HINDERED PHENOLIC ANTIOXIDANTS**

00: -

Polyolefin compositions comprising i) a polyolefin, ii) one or more phosphorus- containing benzofuranone compounds and iii) one or more hindered phenolic antioxidants are provided excellent protection against discoloration and enhanced thermal stability during melt processing as exhibited by improved retention of molecular weight and maintenance of polymer molecular architecture.

21: 2020/00592. 22: 1/29/2020. 43: 5/24/2021  
51: C07F C08K

71: BASF SE

72: KING, III, Roswell, E., HOELZL, Werner

33: US 31: 62/691,193 32: 2018-06-28

33: EP 31: 17180079.0 32: 2017-07-06

**54: STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND ORGANOPHOSPHORUS STABILIZERS**

00: -

Polyolefin compositions comprising i) a polyolefin, ii) one or more phosphorus- containing benzofuranone compounds and iii) one or more organophosphorus stabilizers are provided excellent protection against discoloration and enhanced thermal stability during melt processing as exhibited by improved retention of molecular weight and maintenance of polymer molecular architecture.

21: 2020/00625. 22: 30/01/2020. 43: 5/24/2021  
51: C07C

71: SHELL INTERNATIONALE RESEARCH  
MAATSCHAPPIJ B.V.

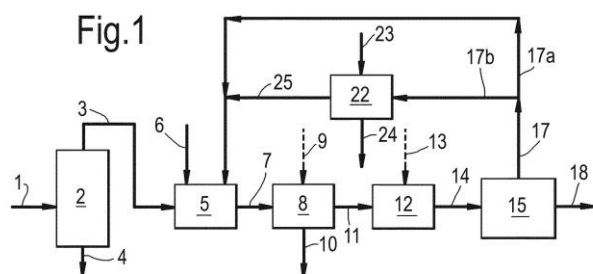
72: VAN ROSSUM, Guus, SCHOONEBEEK, Ronald, Jan, CALVO, Laura, Mariel, ESPOSITO CASSIBBA, Ivana, Daniela, MITKIDIS, Georgios, PAJAND, Pejman, SAN ROMAN MACIA, Maria, KLUSENER, Peter, Anton, August

33: EP 31: 17386027.1 32: 2017-08-16

**54: ETHANE OXIDATIVE DEHYDROGENATION**

00: -

The invention relates to a process for oxidative dehydrogenation of ethane, comprising the steps of: (a) subjecting a stream comprising ethane to oxidative dehydrogenation conditions; (b) removing water from at least part of the effluent resulting from step (a); (c) optionally removing unconverted oxygen and/or carbon monoxide and/or acetylene from at least part of the stream comprising ethylene, unconverted ethane, carbon dioxide, optionally unconverted oxygen, optionally carbon monoxide and optionally acetylene resulting from step (b); (d) removing ethylene from at least part of the stream comprising ethylene, unconverted ethane and carbon dioxide resulting from step (b) or (c) by a complexation separation method; (e) partially and selectively removing carbon dioxide from at least part of the stream comprising unconverted ethane and carbon dioxide resulting from step (d); (f) recycling at least part of the stream comprising unconverted ethane and carbon dioxide resulting from step (e) to step (a).

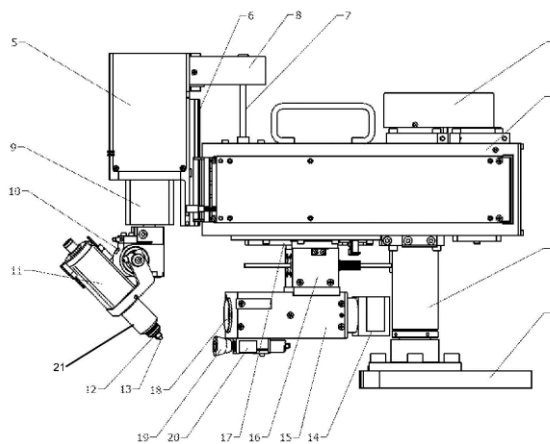


21: 2020/00627. 22: 30/01/2020. 43: 5/14/2021  
51: B24B  
71: FREEDOM AUTOMATION SOLUTIONS LLP  
72: SYTENKO, IVAN, NIKOLAYEVICH  
33: IN 31: 201721030943 32: 2017-08-31  
**54: AN AUTOMATIC GEMSTONE POLISHING ROBOT**

00: -

The present disclosure provides a fully automatic gemstone polishing robot. An aspect of the present disclosure provides an automatic gemstone polishing robot comprising: a gemstone polishing unit, comprising a gemstone holding unit for supporting a gemstone in contact with an abrasive surface, and configured to polish said gemstone in a plurality of iterations based on a feedback signal; an image capturing unit to capture, in one or more of the plurality of iterations, at least one image of the

gemstone; and an image processing unit, which when executed by one or more processors, analyzes said at least one image of the gemstone with respect to one or a plurality of gemstone parameters, wherein the image processing unit is further configured to compare the one or a plurality of analyzed gemstone parameters with one or a plurality of pre-determined gemstone parameters to generate the feedback signal to be transmitted to the gemstone polishing unit. Another aspect of the present disclosure relates to a method of polishing a gemstone utilizing the automatic gemstone polishing robot.



21: 2020/00636. 22: 1/30/2020. 43: 5/14/2021  
51: C07K

71: immatics biotechnologies GmbH  
72: HOFMANN, Martin, UNVERDORBEN, Felix,  
BUNK, Sebastian, MAURER, Dominik  
33: US 31: 62/532,713 32: 2017-07-14  
33: DE 31: 10 2017 115 966.5 32: 2017-07-14  
**54: IMPROVED DUAL SPECIFICITY POLYPEPTIDE MOLECULE**

00: -

The present invention relates to a bispecific polypeptide molecule comprising a first polypeptide chain and a second polypeptide chain providing a binding region derived from a T cell receptor (TCR) being specific for a major histocompatibility complex (MHC)-associated peptide epitope, and a binding region derived from an antibody capable of recruiting human immune effector cells by specifically binding to a surface antigen of said cells, as well as methods

of making the bispecific polypeptide molecule, and uses thereof.

21: 2020/00638. 22: 1/30/2020. 43: 5/14/2021

51: A62C

71: Joint Stock Company "Rosenergoatom", Limited, Liability Company "The Ural-Siberian Fire-Fighting and Technological Company", Joint Stock Company "Science and Innovations"

72: BURDIN, Aleksandr Mikhailovich

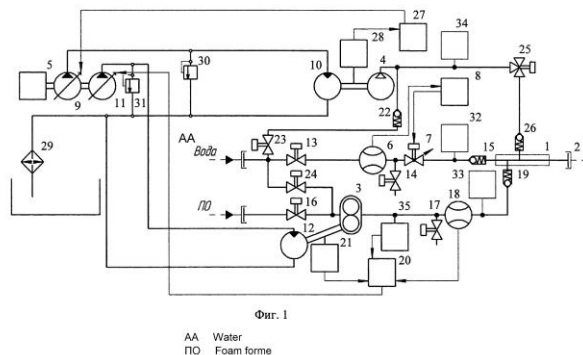
33: RU 31: 2017120827 32: 2017-06-14

33: RU 31: 2017120828 32: 2017-06-14

**54: MOBILE FIRE EXTINGUISHING APPARATUS WITH PRESSURIZED FOAM GENERATION**

00: -

The inventions relate to fire-fighting ground vehicles. A mobile fire extinguishing apparatus with pressurized foam generation comprises: a mixing chamber connected at the outlet to a device for supplying foam to the heart of a fire; and, connected by pipes to an inlet of the mixing chamber, a water supply system comprising a water supply pump with a drive, a foam-forming concentrate supply system comprising a foam pump with a drive, and also an air supply system comprising an air compressor with a drive. The apparatus is provided with a driving motor. The drives of the compressor and of the foam pump are in the form of an adjustable hydraulic transmission of the air compressor drive and an adjustable hydraulic transmission of the foam pump drive, which are kinematically connected to the driving motor. The apparatus is also provided with a water meter, a gate valve having an electric drive, and a non-return valve, which are mounted on a water supply pipe between the water supply pump and the mixing chamber, and is further provided with an electronic control unit for the gate valve. An input of the gate valve control unit is electrically connected to an output of the water meter, and an output of the gate valve control unit is electrically connected to an input of the electric drive of the gate valve. This makes it possible to produce foam having the necessary delivery pressure and density under any pump operating modes.



21: 2020/00641. 22: 1/30/2020. 43: 5/14/2021

51: B02C

71: Siemens Aktiengesellschaft

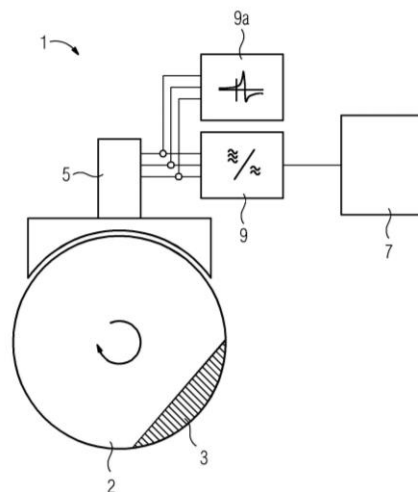
72: FODOR, Dan Niculae, PROCKSCH, Andreas, TISCHLER, Kurt

33: EP(DE) 31: 17189594.9 32: 2017-09-06

**54: METHOD AND DEVICE FOR DETACHING AN ADHERING CHARGE FROM THE INNER SIDE OF A GRINDING PIPE OF A TUBE MILL**

00: -

The invention relates to a method and a device for detaching an adhering charge (3) from the inner wall of a vessel (2), particularly a grinding pipe (2). In order to detach the adhering charge (3), also called a "frozen charge", a recurrent interference interfering with a rotational movement of the grinding pipe (2) is imparted to the movement. The recurrent interference is preferably produced by an interference current ( $\Delta I$ ) imparted to the motor current (I). The interference current ( $\Delta I$ ) is preferably selected on the basis of the type of charge and/or on the basis of the physical characteristics of the tube mill. The invention at least greatly simplifies the detachment of the adhering charge (3). Optionally or alternatively, the recurrent interference can also be a mechanical interference (ms).



21: 2020/00666. 22: 1/31/2020. 43: 5/24/2021

51: B60K; B60W

71: Bayerische Motoren Werke Aktiengesellschaft  
72: JUNG, Thomas, KOBLER, Sebastian, HOESS, Bernhard

33: DE 31: 10 2017 214 396.7 32: 2017-08-18

**54: HYBRID DRIVE TRANSMISSION UNIT AND METHOD FOR OPERATING A VEHICLE WITH A HYBRID DRIVE**

00: -

The invention relates to a hybrid drive transmission unit for a vehicle, comprising an internal combustion engine (12) and an electric motor (14) for the drive part, said unit being provided with a power-split transmission (20) with sub-transmissions (22, 24) and a torsion-damping unit with a gyrating mass, interconnected between the internal combustion engine (12) and the power-split transmission (20), and a clutch (38) interconnected between the internal combustion engine (12) and the torsion-damping unit (40), by which means the internal combustion engine (12) can be activated, switching from the electromotive operating mode. The invention also relates to a corresponding method.

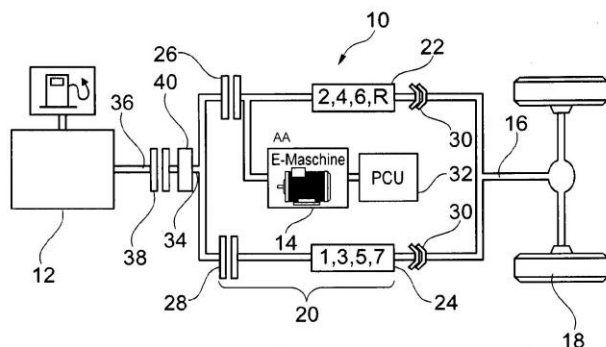


Fig. 1

AA E-machine

21: 2020/00714. 22: 2/4/2020. 43: 5/24/2021

51: H04W

71: NTT Docomo, Inc.

72: OHARA, Tomoya, HARADA, Hiroki

**54: USER EQUIPMENT AND BASE STATION APPARATUS**

00: -

This user device includes: a reception unit that communicates with a base station device and receives, from the base station device, information used for initial access; a control unit that determines a plurality of preamble formats on the basis of an index contained in the information used for initial access, and that determines one or a plurality of resources on the basis of the information used for initial access; and a transmission unit that transmits a preamble to the base station device by using the preamble formats and the resource(s).

(BB)		AA		BB		CC		CC		DD		EE	
Preamble format	# of Sequences	TCP	TREQ	TCP	Path profile (T <sub>0</sub> )	Path profile (T <sub>1</sub> )	Maximum Cell radius (meter)	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
0	1	144	2048	0	48	156	489	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
1	2	288	4096	0	96	312	938	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
2	4	576	8192	0	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
3	8	864	12288	0	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
4	1	144	2048	0	48	156	489	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
5	2	192	4096	96	96	312	938	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
6	4	288	8192	216	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
7	8	504	12288	360	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
8	12	896	24576	792	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
9	1	144	2048	0	48	156	489	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
10	2	192	4096	96	96	312	938	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
11	4	288	8192	216	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
12	8	504	12288	360	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
13	12	896	24576	792	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
14	1	144	2048	0	48	156	489	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
15	2	192	4096	96	96	312	938	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
16	4	288	8192	216	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
17	8	504	12288	360	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF
18	12	896	24576	792	144	468	1399	TA is already known or Very small cell	Small cell	Normal cell	Very small cell	Use case	FF

21: 2020/00784. 22: 06/02/2020. 43: 5/14/2021

51: C08L

71: BOREALIS AG

72: KNIIESEL, Claudia, LUMMERSTORFER, Thomas, SAGEDER, Anton, OTTE, Michael, JAHN, Andreas, LEGRAS, Angelica, Maëlle, Delphine

33: EP 31: 17204058.6 32: 2017-11-28

**54: POLYMER COMPOSITION WITH IMPROVED PAINT ADHESION**

00: -

The invention is directed at a polypropylene composition comprising a heterophasic propylene copolymer, a plastomer and an inorganic filler. Furthermore, the invention directed at an article comprising the polypropylene composition and the use of the polypropylene composition to improve the adhesion performance of an article.

21: 2020/00797. 22: 06/02/2020. 43: 5/14/2021

51: A61F; A61M

71: SMITH &amp; NEPHEW PLC

72: GOWANS, Philip, HUNT, Allan, Kenneth, Frazer, Grugeon, PHILLIPS, Marcus, Damian, SMITH, Damian, URWIN, Charlotte

33: US 31: 62/543,909 32: 2017-08-10

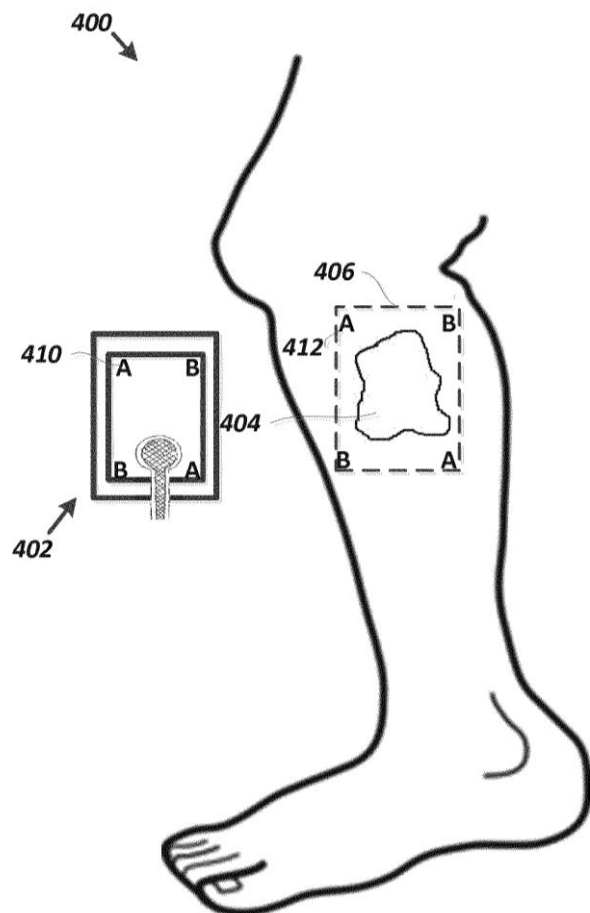
**54: POSITIONING OF SENSORS FOR SENSOR ENABLED WOUND MONITORING OR THERAPY**

00: -

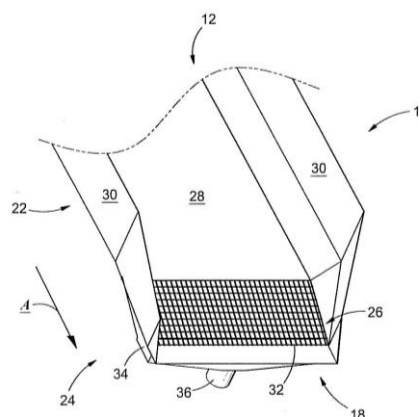
Embodiments of apparatuses and methods for determining a positioning of sensors in a wound dressing are disclosed. In some embodiments, a wound monitoring and/or therapy system can include a wound dressing and a plurality of sensors configured to measure one or more wound characteristics. The wound monitor system can also include at least one positioning device configured to indicate position and/or orientation in the wound of a sensor of the plurality of sensors. In some embodiments, a detector can be configured to determine, based on the positioning data, the position and/or orientation in the wound of the sensor of the plurality of sensors. In some embodiments, the plurality of sensors can be



positioned on a strip or string of material in communication with the positioning device.



inlet 12 for operatively receiving the materials 14, 16 on it and allowing the received materials 14, 16 to pass down it due to gravitational forces acting thereon, and a drainage section 24 located downstream adjacent the inclined section 22 for operatively receiving the materials 14, 16 from the inclined section 22.



21: 2020/00829. 22: 2/10/2020. 43: 6/3/2021  
51: B01D; B65G

71: A & L ROETS TRUST

72: ROETS, André Hendrik

33: ZA 31: 2018/07562 32: 2018-11-09

33: ZA 31: 2019/00218 32: 2019-01-14

#### **54: A CHUTE**

00: -

This invention relates to a chute 10 for receiving and separating materials from each other, and comprises an inlet 12 for operatively receiving materials comprising a mixture of solids 14 and liquid 16, an outlet 18 for operatively discharging at least part of the received materials 14 from the chute 10, and a slide passage 20 along which the received materials 14, 16 operatively moves from the inlet 12 to the outlet 18. The chute 10 further comprises an operatively inclined section 22 located adjacent the

21: 2020/00839. 22: 10/02/2020. 43: 6/3/2021

51: A23K

71: ZINPRO CORPORATION

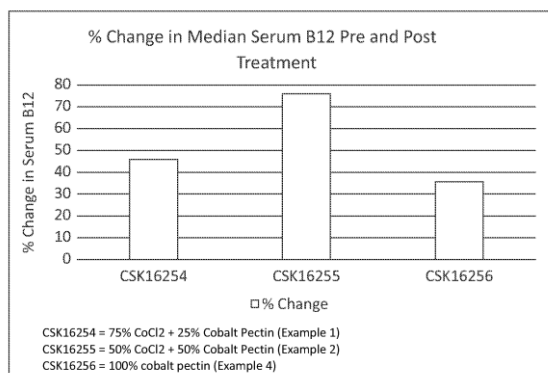
72: STARK, Peter A

33: US 31: 15/647,944 32: 2017-07-12

#### **54: METHOD AND COMPOSITION TO CONTROL RUMEN RELEASE OF COBALT TO RUMEN BACTERIA FOR MAKING VITAMIN B12**

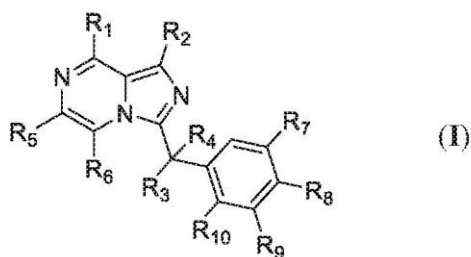
00: -

A method and composition which is a unique source of cobalt for enhanced production of Vitamin B12 in the rumen. It has the advantage of a slow release source of cobalt combined with a fast release source of cobalt. The fast cobalt ion release source which is a soluble source of cobalt is turned over faster in the rumen than the insoluble cobalt sources are turned over.



21: 2020/00875. 22: 11/02/2020. 43: 5/14/2021  
 51: A61K; C07D; A61P  
 71: BEIGENE, LTD.  
 72: LI, Jing, ZHAO, Haibo, WANG, Zhiwei  
 33: CN 31: PCT/CN2017/101058 32: 2017-09-08  
 33: CN 31: PCT/CN2017/119373 32: 2017-12-28  
 33: CN 31: PCT/CN2018/086555 32: 2018-05-11  
**54: IMIDAZO[1,5-A]PYRAZINE DERIVATIVES AS PI3KDELTA INHIBITORS**

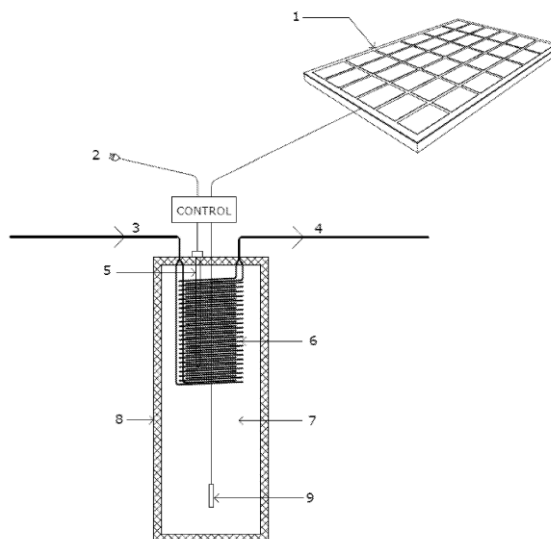
00: -  
 Disclosed is a compound of Formula (I), or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof, and pharmaceutical compositions comprising thereof. Also disclosed is a method of treating PI3Kd related disorders or diseases by using the compound disclosed herein.



21: 2020/00901. 22: 12/02/2020. 43: 5/24/2021  
 51: F24H  
 71: WISE EARTH PTY LTD  
 72: BAVERSTOCK, Garry Frederick, PAOLINO, Sam Peter, LUCKS, Stephen Frederick  
 33: AU 31: 2017902788 32: 2017-07-17  
**54: HOT WATER TANK**

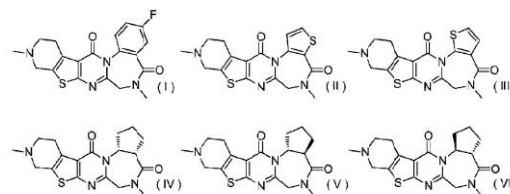
00: -  
 A hot water tank including: a shell enclosing a chamber containing a heat exchange liquid, the shell including a base, side wall and lid; a cold water inlet

connected to a first end of a heat exchanger, and a hot water outlet connected to a second end of the heat exchanger, wherein the heat exchanger is located in an upper portion of the chamber; a primary heating element connected to a power source for heating the heat exchange liquid, the primary heating element being located in a lower portion of the chamber.



21: 2020/00970. 22: 2/14/2020. 43: 5/24/2021  
 51: A61K; A61P; C07D  
 71: Eisai R&D Management Co., Ltd.  
 72: OHASHI, Yoshiaki, NORIMINE, Yoshihiko, HOSHIKAWA, Tamaki, YOSHIDA, Yu, KOBAYASHI, Yoshihisa, SATO, Nobuhiro, HAGIWARA, Koji  
 33: JP 31: 2017-172169 32: 2017-09-07  
**54: PENTACYCLIC COMPOUND**

00: -  
 The present invention provides the compound represented by formulas (I) - (VI), or a pharmacologically acceptable salt thereof.



21: 2020/01101. 22: 21/02/2020. 43: 5/24/2021

51: D06M

71: Max-Fischer-Straße 11

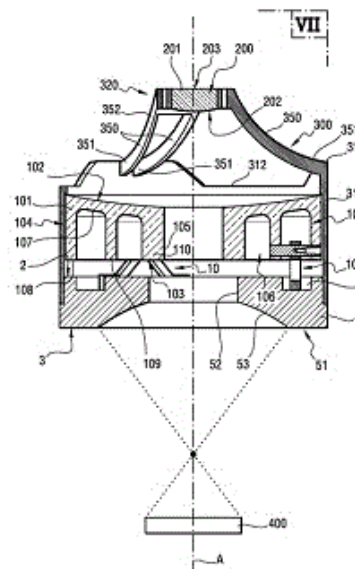
72: DAHRINGER, Jörg, KLANERT, Michael,  
ENGELHARDT, Peter, Schillstraße 79b

33: DE 31: 10 2017 008 637.0 32: 2017-09-14

**54: POLYMER FIBER HAVING IMPROVED LONG-TERM DISPERSIBILITY**

00: -

The invention relates to a polymer fiber having improved dispersibility, a method for the production thereof and the use thereof. The polymer fiber according to the invention comprises at least one synthetic polymer and a preparation present on the surface of the fibers, said preparation comprising at least one cellulose ether selected from the group consisting of carboxymethyl cellulose (CMC), methyl cellulose (MC), ethyl cellulose (EC), hydroxyethyl cellulose (HEC), hydroxypropyl cellulose (HPC), methylethyl cellulose (MEC), hydroxyethylmethyl cellulose (HEMC), hydroxypropylmethyl cellulose (HPMC), ethylhydroxyethyl cellulose, carboxymethylhydroxyethyl cellulose, and mixtures thereof. The polymer fiber according to the invention has improved dispersibility and is thus suitable for the preparation of aqueous suspensions which are used, for example, in the formation of textile fabrics, for example nonwovens.



21: 2020/01267. 22: 27/02/2020. 43: 5/24/2021

51: C07D; A61K; A61P

71: BIONTECH SE

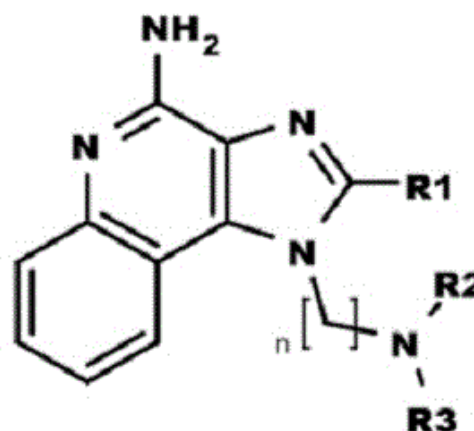
72: HENRY, CHRISTOPHE

33: EP 31: PCT/EP2017/072353 32: 2017-09-06

**54: SUBSTITUTED IMIDAZOQUINOLINES AS AGONISTS OF TLR7**

00: -

The invention relates to imidazoquinoline derivatives and to pharmaceutical compositions containing the imidazoquinoline derivatives. The imidazoquinoline derivatives of the invention are useful as toll-like receptor agonists, in particular agonists of TLR7, and promote induction of certain cytokines.



21: 2020/01391. 22: 3/4/2020. 43: 5/24/2021

51: HO4B; HO4L

71: Huawei Technologies Co., Ltd.

21: 2020/01121. 22: 21/02/2020. 43: 5/24/2021

51: G02B

71: SAFRAN ELECTRONICS &amp; DEFENSE

72: HOELTZEL, CHARLOTTE, TACCONI, CÉDRIC,  
FURUI, CHRISTOPHE, SEILLIER, FRANCK, ANNA,  
GUILLAUME

33: FR 31: 17 00868 32: 2017-08-22

**54: TELESCOPE HAVING IMPROVED PERFORMANCE**

00: -

The invention relates to a telescope comprising an attachment plate (1), a primary mirror (100) borne by a front face (2) of the plate, and a secondary mirror (200) held opposite the primary mirror by a support (300), characterized in that the support (300) comprises a primary ring (310) mounted around the primary mirror (100), a secondary ring (320) mounted around the secondary mirror (200), and arms (350) connecting the secondary ring to the primary ring, and in that the arms (350) are curved towards the primary mirror (100).

72: QI, Biao, ZHANG, Jun, WANG, Wei, XIONG, Wei

#### **54: TOPOLOGY PROCESSING METHOD, APPARATUS, AND SYSTEM**

00: -

A topology processing method, apparatus, and system are provided. The topology processing method includes: obtaining, by a topology processing apparatus, a first onsite image collected from an optical distribution network ODN, where the first onsite image includes at least an imaging of a first port of a first ODN device, the first port is connected to a first cable, a first identification area used to identify the first cable is disposed on the first cable, and the first onsite image further includes at least an imaging of the first identification area on the first cable; and identifying, by the topology processing apparatus, the first cable based on the first identification area on the first onsite image, and identifying, based on the first onsite image, the first port connected to the first cable; and generating, by the topology processing apparatus, a first correspondence between the first ODN device, the first port, and the first cable.

21: 2020/01405. 22: 3/5/2020. 43: 5/14/2021

51: H01T

71: LINDEMULDER, Paul

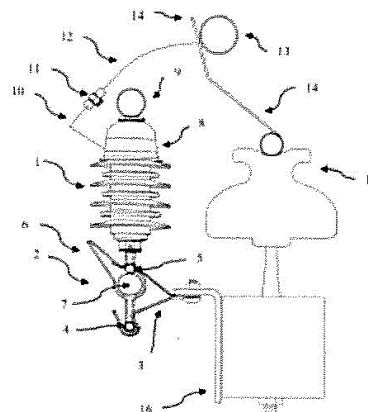
72: LINDEMULDER, Paul

33: US 31: 16/298,679 32: 2019-03-11

#### **54: HOT STICK QUICK CONNECT SURGE ARRESTER ASSEMBLY**

00: -

A surge arrester assembly comprises a ground connector with a clamping component and line connector assembly that incorporates non-bolted mechanical and electrical connections. The assembly connections permit the use of insulating hot sticks for installation and removal of the arrester module for safe and rapid removal and replacement of expired surge arresters. The clamp and line connector are reusable for replacement of surge arresters.



21: 2020/01414. 22: 05/03/2020. 43: 5/14/2021

51: C08L

71: BOREALIS AG

72: JERABEK, Michael, STOCKREITER, Wolfgang, LUMMERSTORFER, Thomas

33: EP 31: 17205456.1 32: 2017-12-05

#### **54: FIBER REINFORCED POLYPROPYLENE COMPOSITION**

00: -

The present invention is directed to granules comprising a fiber reinforced composition (C), said composition comprising a propylene polymer (PP), an elastomeric ethylene copolymer (E) and long fibers (LF).

21: 2020/01416. 22: 05/03/2020. 43: 5/24/2021

51: F41G

71: F.N. HERSTAL, SA

72: COSTET, OLIVIER HOLGER, HOWLETT, LUKE RANDEL

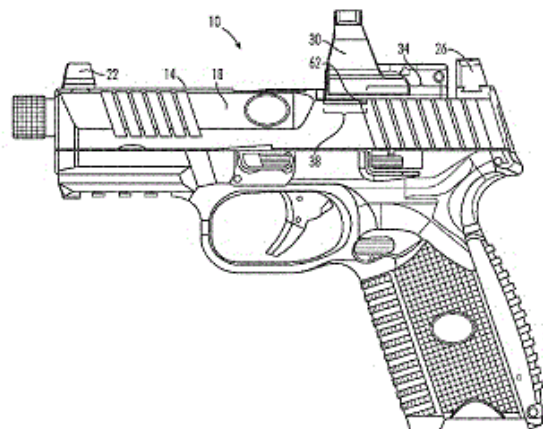
33: US 31: 62/545,122 32: 2017-08-14

#### **54: A FIREARM WITH INTERCHANGEABLE SIGHTING DEVICE SYSTEM**

00: -

A firearm having a top surface to which an optical sight is to be attached having a first portion and an adjacent second portion stepped down from the first portion. An adaptor plate is received in the second portion, its shape corresponding to the second portion to properly orient the adaptor plate. The bottom of the second portion and the underside of the adaptor plate having features to receive a spring. An optical sight is attached with at least one fastener to the first portion and directly to the slide of the pistol with a part of the optical sight cantilevered over the second portion and on the adaptor plate.

The upper surface of the adaptor plate has a topography that corresponds to a complimentary topography on the underside of that portion of the optical sight.



21: 2020/01418. 22: 05/03/2020. 43: 5/11/2021  
 51: C07D; A61K; A61P  
 71: RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY  
 72: FREUNDLICH, JOEL S, ALLAND, DAVID, NEIDITCH, MATTHEW B, KUMAR, PRADEEP, CAPODAGLI, GLENN, AWASTHI, DIVYA, EKINS, SEAN  
 33: US 31: 62/551,534 32: 2017-08-29

#### **54: THERAPEUTIC INDAZOLES**

00: -

The invention provides compounds of formula (I): and salts thereof wherein  $R^1$ - $R^5$  have any of the meanings described in the specification. The compounds are useful for treating bacterial infections (e.g. tuberculosis).

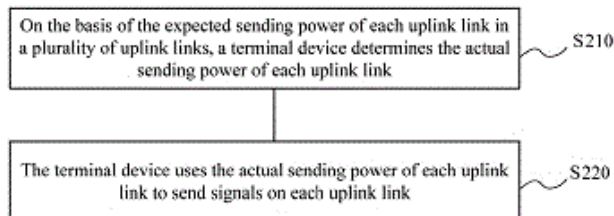


21: 2020/01438. 22: 06/03/2020. 43: 5/24/2021  
 51: H04W  
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.  
 72: CHEN, WENHONG, ZHANG, ZHI

#### **54: UPLINK TRANSMISSION METHOD AND TERMINAL DEVICE**

00: -

Provided in the embodiments of the present application uplink transmission method and a terminal device, capable of enhancing system performance, the method comprising: on the basis of the expected sending power of each uplink link in a plurality of uplink links, a terminal device determines the actual sending power of each uplink link; and the terminal device uses the actual sending power of each uplink link to send signals on each uplink link.



21: 2020/01441. 22: 06/03/2020. 43: 5/24/2021  
 51: C12N; C12Q  
 71: SAKATA SEED CORPORATION  
 72: IZUMIDA, ATSUSHI, SUZUKI, TAKAO, HIRAMOTO, TETSUYA  
 33: JP 31: 2017-157384 32: 2017-08-17

#### **54: METHOD FOR DETECTING OFF-TYPE OF BRASSICA OLERACEA PLANT**

00: -

The present specification discloses a method for detecting an aneuploid of a Brassica oleracea plant, including: performing real-time PCR using DNA extracted from a sample derived from a Brassica oleracea plant to be tested as a template and DNA markers specific to each of two or more chromosomes of Brassica oleracea plant; and detecting chromosomal aneuploidy from a relative difference in amplification amount between the obtained DNA markers. According to one embodiment of the present invention, it is possible to simply, accurately, and rapidly detect an off-type (chromosomal aneuploid) that may occur in Brassica oleracea varieties, in a laboratory equipped with a general molecular biological equipment in the course of seed quality control and breeding research.

21: 2020/01474. 22: 09/03/2020. 43: 5/24/2021  
 51: H04W



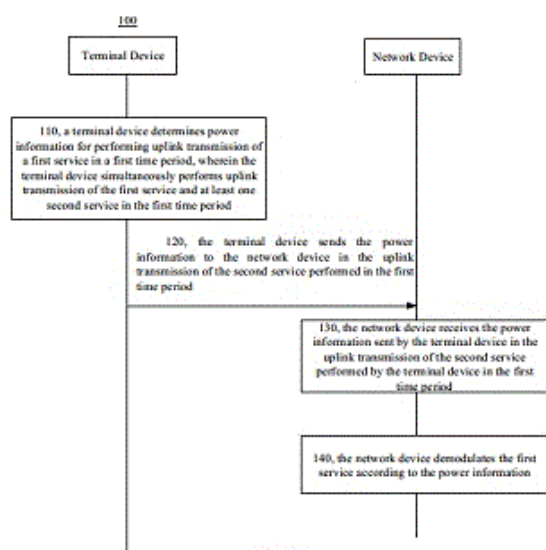
71: GUANGDONG OPPO MOBILE  
TELECOMMUNICATIONS CORP., LTD.

72: CHEN, WENHONG, ZHANG, ZHI

**54: WIRELESS COMMUNICATION METHOD,  
TERMINAL DEVICE, AND NETWORK DEVICE**

00: -

Provided in the embodiments of the present application are a wireless communication method, a terminal device, and a network device, enabling the network device to promptly acquire the power used by the terminal device to transmit a service, and thereby correctly demodulate the service. The method comprises: the terminal device determines power information for implementing uplink transmission of a first service in a first time period, the terminal device implementing uplink transmission of the first service and at least one second surface in the first time period; when implementing uplink transmission of the second service in the first time period, the terminal device sends the power information to the network device.



21: 2020/01475. 22: 09/03/2020. 43: 5/24/2021

51: C08B; A23L

71: SVERIGES STÄRKELSEPRODUCENTER,  
FÖRENING U.P.A.

72: BRYNOLF, MIKAEL, STÅHL, ÅKE,  
SAMUELSSON, MATHIAS

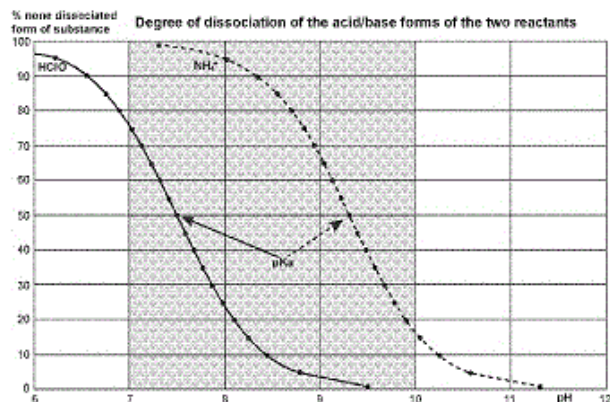
33: SE 31: 1750986-0 32: 2017-08-11

**54: METHOD FOR PREPARING AN INHIBITED  
STARCH**

00: -

A method for preparing an inhibited starch, wherein it comprises the steps of a) providing a slurry

containing a native granular starch obtained from a starch containing raw material, b) alkalizing the slurry by adding ammonia or by adding one or more compounds having the ability to release or produce ammonia in the slurry, c) adjusting the pH of the slurry to a value between 7 and 10, d) adding at least one oxidant being a source of active chlorine to the slurry for a reaction with said ammonia, e) adding at least one organic acid or a bisulfite to the slurry with a view to eliminating any residual oxidant, off-taste, and undesired smell, and f) adding at least one antioxidant to the slurry with a view to stabilizing the achieved inhibition of the starch during prolonged warehouse storage, is disclosed, as well as a starch having increased viscosity when cooked in hard water compared to when cooked in distilled water; an inhibited starch prepared with the method according to the present invention; use of said inhibited starch in a food product; and a food product containing said inhibited starch.



21: 2020/01539. 22: 11/03/2020. 43: 5/24/2021

51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON  
(PUBL)

72: PEISA, JANNE, DA SILVA, ICARO L. J,  
RAMACHANDRA, PRADEEPA

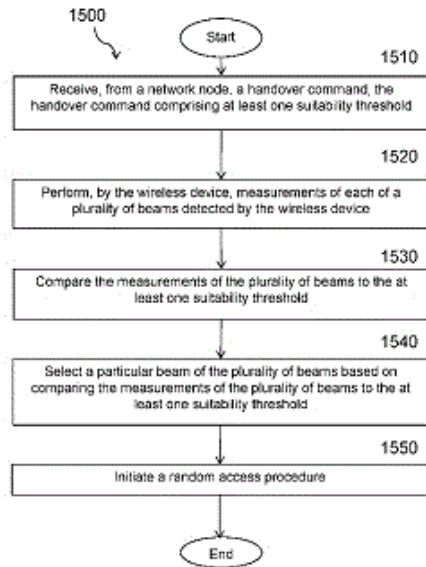
33: US 31: 62/564,799 32: 2017-09-28

**54: MULTI-BEAM RANDOM ACCESS  
PROCEDURE IN HANDOVER EXECUTION**

00: -

According to certain embodiments, a method by a wireless device is provided for beam-based random access. The method includes receiving, from a network node, a handover command, the handover command comprising at least one suitability threshold. Measurements of each of a plurality of

beams detected by the wireless device are performed. The measurements of the plurality of beams are compared to the at least one suitability threshold. A particular beam is selected based on the comparison, and a random access procedure is initiated.



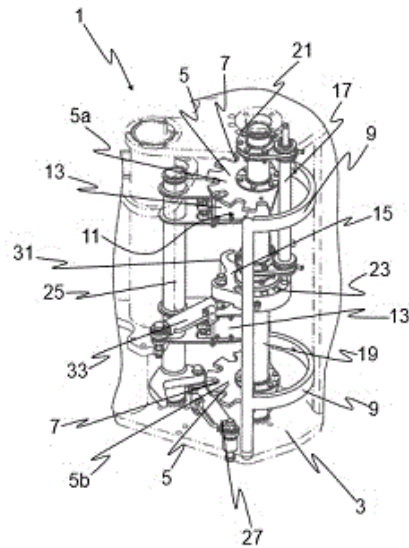
21: 2020/01542. 22: 11/03/2020. 43: 5/24/2021  
 51: E21B; E21D  
 71: EPIROC ROCK DRILLS AKTIEBOLAG  
 72: OLSSON, JAN  
 33: SE 31: 1751472-0 32: 2017-11-30

#### **54: ROD FEEDING DEVICE AND METHOD AT ROD FEEDING DEVICE**

00: -

A rod feeding device (1) is described herein, which comprises a frame (3) as well as a rotatable magazine (5) arranged on the frame (3) and arranged with a plurality of grooves (7) around its periphery in which rods may be placed. The rod feeding device (1) further comprises at least one securing arrangement (9) which ensures that the rods may only leave the magazine (5) at an access position (11) of the securing arrangement (9). The rod feeding device (1) further comprises at least one moveable picking arm (13) arranged to be able to be moved to a first position where the picking arm (13) via the access position (11) can place rods in and remove rods from the magazine (5). The rod feeding device (1) also comprises a rotatable magazine mover. The magazine (5) is arranged to be able to be locked to the magazine mover (15), such that the

magazine mover (15) can rotate the magazine (15) when they are locked to each other and rotate relative to the magazine (5) when they are not locked to each other. The magazine mover (15) further comprises a rod gripping arrangement (31) which secures a rod in its groove (7) in the magazine (5) when the magazine mover (15) is positioned in a rod gripping position. A method for placing rods in the rod feeding device (1) as well as a method for removing rods from the rod feeding device (1) is also described.



21: 2020/01543. 22: 11/03/2020. 43: 5/24/2021  
 51: H03M  
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

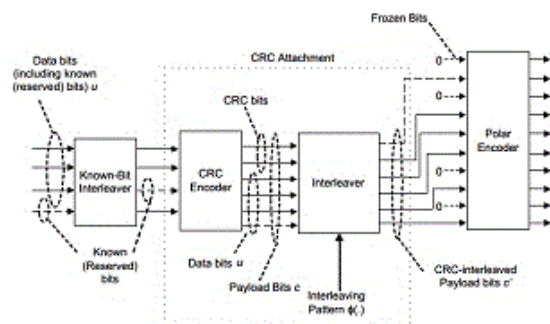
72: WESSLÉN, ANDERS, HUI, DENNIS, BLANKENSHIP, YUFEI  
 33: US 31: 62/567,738 32: 2017-10-03

#### **54: INTERLEAVING BEFORE CRC CODING A NR PBCH PAYLOAD INCLUDING KNOWN BITS TO ENHANCE POLAR CODE PERFORMANCE**

00: -

Systems and methods are described herein that allow information carrying bits of a transmission block to be placed at higher-reliability positions prior to transmission. An exemplary method includes generating a set of payload bits to be encoded for transmission, wherein the set of payload bits includes at least one known bit, interleaving the set of payload bits to generate an interleaved set of payload bits, wherein the interleaved set includes the at least one known bit in a predetermined

position in the interleaved set, providing the interleaved set to a cyclic redundancy check (CRC) encoder to generate CRC-interleaved set of payload bits, wherein the CRC-interleaved set includes the at least one known bit in a predetermined position within the CRC-interleaved set, and encoding the CRC-interleaved set for transmission to a wireless device. Associated network nodes and wireless devices are included.



21: 2020/01560. 22: 3/12/2020. 43: 6/9/2021  
51: A01C

71: Lingnan Normal University

72: LI, Hua, MA, Xiaoxiao, YU, Siyao, ZHOU, Wenjing, CHEN, Bangbang, NIU, Chi, YANG, Ping

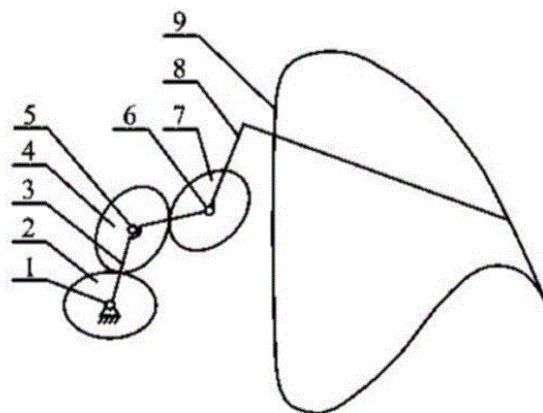
33: CN 31: 201910190440.0 32: 2019-03-13

#### **54: PLUG SEEDLING PICKING MECHANISM WITH SECOND-ORDER ELLIPTICAL PLANETARY GEAR TRAIN**

00: -

The present invention provides a plug seedling picking mechanism with a second-order elliptical planetary gear train. The present invention includes a central shaft, a second-order central elliptical gear, a planetary carrier, a second-order intermediate elliptical gear, an intermediate shaft, a planetary shaft, a second-order planetary elliptical gear and a seedling picking claw. In operation, the power is transmitted from the central shaft to the planetary carrier fixedly connected with the central shaft to drive the planetary carrier to rotate counterclockwise and uniformly around the second-order central elliptical gear. Three identical second-order elliptical gears mesh to cause the second-order planetary elliptical gear to swing back and forth relative to a center thereof. The seedling picking claw fixedly connected with the planetary shaft swings back and forth with the second-order planetary elliptical gear

to form an inverted y-shaped trajectory for plug seedling picking.



21: 2020/01561. 22: 12/03/2020. 43: 5/14/2021

51: A61K; A61P

71: SANOFI PASTEUR

72: CHAUX, Pascal, DUMAS, Rafaela, HAENSLE, Jean, PICHON, Sylvie, PIRAS-DOUCE, Fabienne

33: EP 31: 17306179.7 32: 2017-09-03

#### **54: HUMAN CYTOMEGALOVIRUS IMMUNOGENIC COMPOSITION**

00: -

The invention relates to an immunogenic composition comprising an HCMV gB antigen, an HCMV gH/gL/UL128/UL130/UL131 pentameric complex antigen and a Th1 -inducing adjuvant. It further relates to the immunogenic composition for use as an HCMV vaccine.

21: 2020/01572. 22: 12/03/2020. 43: 5/24/2021

51: C12Q

71: ONCGNOSTICS GMBH

72: DÜRST, MATTHIAS, RUNNEBAUM, INGO B, SCHMITZ, MARTINA, HANSEL, ALFRED

#### **54: RISK DETERMINATION FOR NEOPLASIA AND CANCER**

00: -

Methods for the determination of the risk of developing neoplasia in a tissue, preferably anogenital tissue, showing no histopathological indications of neoplasia are described. The method is based on the determination of the methylation status of genomic DNA sequences associated with the genes ZNF671, ZNF154, ZNF776, ASTN1, BRINP2, DLX1, METAP1D and/or DLX2.

21: 2020/01606. 22: 13/03/2020. 43: 5/24/2021

51: A46D; B23K; A61C

71: TEPE MUNHYGIENPRODUKTER AB

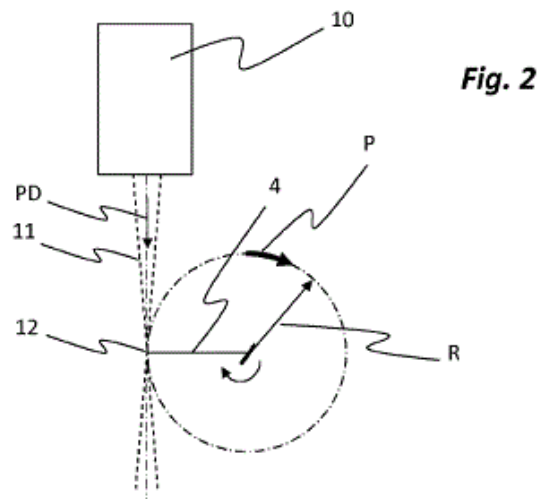
72: LARSSON, JAN-INGE

33: SE 31: 1751003-3 32: 2017-08-17

#### **54: METHOD AND APPARATUS FOR END ROUNDING BRISTLES**

00: -

The disclosure relates to a method for end rounding bristles of a brush section (V) comprising a plurality of bristles (4), the method comprising providing a focused laser beam (11) propagating along a geometrical main propagation direction (PD) and having a main irradiation spot (12), providing a relative motion between an end of each bristle (4) and the main irradiation spot (12) of the focused laser beam (11) such that the end of each bristle (4) is moved through the main irradiation spot (12) in a path (P) having a main component transverse to a longitudinal extension (LE) of the bristle (4), wherein the focused laser beam (11) is directed such that the geometrical main propagation direction (PD) has a main component transverse to the longitudinal extension (LE) of respective bristle (4) having its end at the main irradiation spot (12), whereby a rounding of the end is provided by the focused laser beam (11) heating the end and causing it to partly melt and form a rounded end, providing a relative motion between the main irradiation spot (12) and the brush section (1') along a direction (L) having a main component being transverse to the path (P), thereby subjecting in sequence the ends of the plurality of bristles (4) to the focused laser beam (11) thereby providing a brush section (1') having end rounded bristles (4). The disclosure also relates to an apparatus.



21: 2020/01607. 22: 13/03/2020. 43: 5/24/2021

51: H01L

71: SAFRAN ELECTRONICS & DEFENSE

72: DAVENEL, ARNAUD, JOUFFROY, MICHEL,

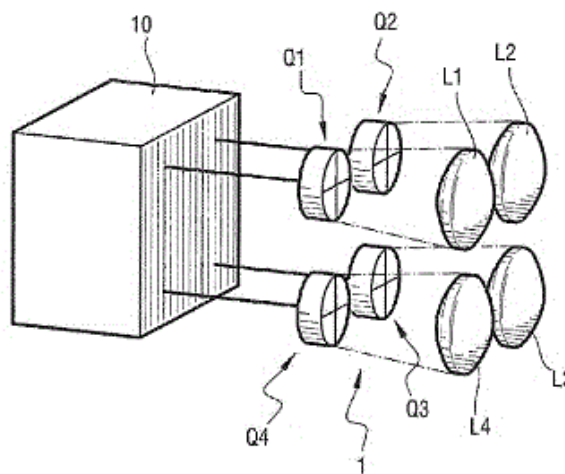
CHOPIN, LANDRY, FRAYSSE, VINCENT

33: FR 31: 1700968 32: 2017-09-21

#### **54: LOCATING AND DETECTING DEVICE COMPRISING A PLURALITY OF PHOTODIODES**

00: -

Locating and detecting device comprising a plurality of optical sensors (Q1, Q2, Q3, Q4) having fields that add to define the field of the locating and detecting device, each sensor comprising a plurality of photodiodes having fields that add to define the field of the sensor, the sensors being connected to a control unit (10) in such a way that each sensor delivers a first signal corresponding to the sum of the signals of at least two of the photodiodes.





21: 2020/01634. 22: 16/03/2020. 43: 5/14/2021  
51: C02F

71: BLÜCHER GMBH

72: SCHÖNFELD, Raik, FISCHER, Charlotte,  
RAISER, Jan-Peter

33: DE 31: 10 2017 009 037.8 32: 2017-09-27

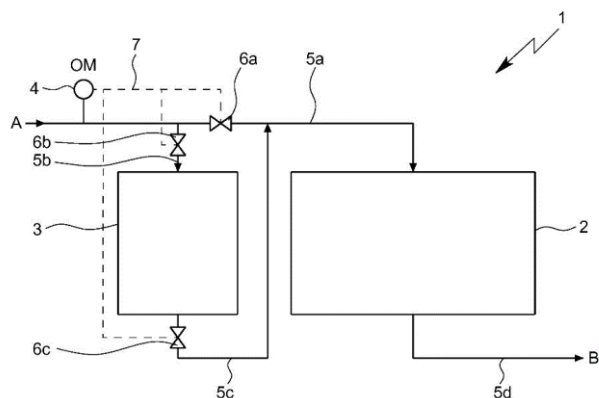
33: DE 31: 10 2017 009 038.6 32: 2017-09-27

33: DE 31: 10 2017 126 118.4 32: 2017-11-08

#### **54: METHOD AND SYSTEM FOR TREATING AND/OR PURIFYING WATER**

00: -

The invention relates to a method for preferably continuous treatment and/or purifying of water encumbered by contaminants, in particular organic contaminants, preferably micropollutants and/or trace substances, in particular untreated water, preferably for purposes of producing and/or obtaining treated and/or purified water, in particular pure water, preferably drinking water and/or service water. The invention further relates to a water treatment system for carrying out said method and to applications thereof.



21: 2020/01648. 22: 16/03/2020. 43: 5/24/2021  
51: B65D

71: CREATIVE CLOUD COMPANY B.V.

72: RITZEN, GLEN

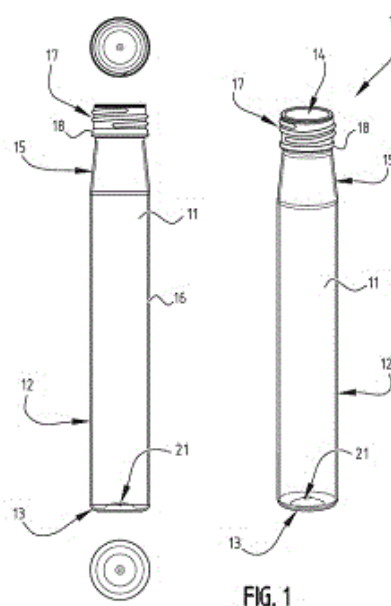
33: NL 31: 2019538 32: 2017-09-13

#### **54: WINE BOTTLE AND METHOD**

00: -

Elongate wine bottle (10) with an internal space (11) for holding wine therein, comprising a hollow and cylindrical body (12) with a closed bottom (13) and a cylindrical neck (15) extending to an open outer end of the wine bottle remote from the bottom, wherein a thickness of a material from which the wine bottle is manufactured is the same over at least substantially

the whole length of the wine bottle and wherein the neck is provided along its outer surface with an external screw thread (17) and only a single annular edge (18) situated below the screw thread relative to the open outer end, wherein a diameter of the circular cross-section of the body is at least substantially equal to a diameter of the circular cross-section of the neck such that the wine bottle has at least substantially one and the same bottle diameter along its whole length.



21: 2020/01649. 22: 16/03/2020. 43: 5/24/2021  
51: C12N

71: COMMONWEALTH SCIENTIFIC AND  
INDUSTRIAL RESEARCH ORGANISATION

72: SMITH, NEIL ANDREW, WANG, MING-BO,  
DORAN, TIMOTHY JAMES, TIZARD, MARK, ALLU,  
ANNAPURNA DEVI, GREAVES, IAN KEVIN, GAO,  
LINGLING, ANDERSON, JONATHAN PAUL,  
ZHANG, DAAI, DE FEYTER, ROBERT

33: AU 31: 2018902840 32: 2018-08-03

33: AU 31: 2017903773 32: 2017-09-15

33: AU 31: 2018902896 32: 2018-08-08

#### **54: RNA MOLECULES**

00: -

The present invention relates to new double stranded RNA (dsRNA) structures and their use in gene silencing. In one embodiment the dsRNA comprises a double hairpin (dumbbell) structure. In another embodiment a proportion of the sense and antisense strands of the dsRNA molecule contain



ribonucleotides that are either basepaired in a non-canonical basepair or are not basepaired.

21: 2020/01650. 22: 16/03/2020. 43: 5/24/2021  
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

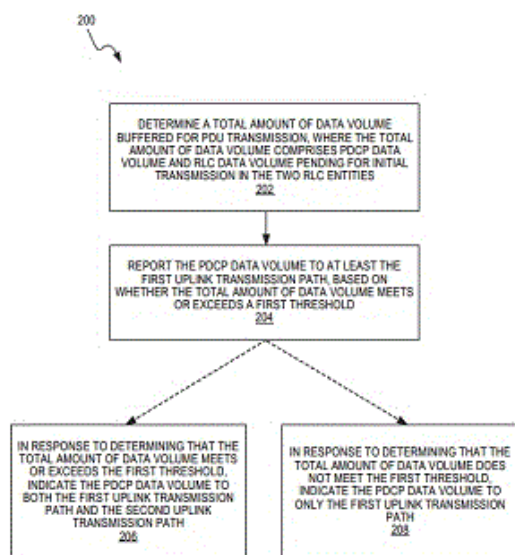
72: PRADAS, JOSE LUIS, DUDDA, TORSTEN, ENBUSKE, HENRIK, WIEMANN, HENNING

33: US 31: 62/564,640 32: 2017-09-28

**54: PDCP UL SPLIT AND PRE-PROCESSING**

00: -

According to an aspect, a UE in an uplink split-bearer configuration is configured to transmit PDUs by a first RLC entity via a first uplink transmission path and/or by a second RLC entity via a second uplink transmission path. The UE determines a total amount of data volume from PDCP data volume and RLC data volume pending for initial transmission in the two RLC entities. The UE decides whether submission of PDCP data volume is allowed to either of the two RLC entities or to only the first RLC entity, based on whether the total amount of data volume meets or exceeds a first threshold. The UE also reports the PDCP data volume to both the first and second uplink transmission paths or only the first uplink transmission path, based on whether the total amount of data volume meets or exceeds a first threshold.



21: 2020/01675. 22: 17/03/2020. 43: 5/24/2021  
51: A61K

71: BIONTECH RNA PHARMACEUTICALS GMBH

72: ESPARZA BORQUEZ, ISAAC HERNAN, HILLER, THOMAS MICHAEL, BATES, FERDIA, HÖRNER, SEBASTIAN, HAAS, HEINRICH

33: US 31: 62/574,965 32: 2017-10-20

**54: PREPARATION AND STORAGE OF LIPOSOMAL RNA FORMULATIONS SUITABLE FOR THERAPY**

00: -

The present disclosure relates to methods for preparing RNA lipoplex particles for delivery of RNA to target tissues after parenteral administration, in particular after intravenous administration, and compositions comprising such RNA lipoplex particles. The present disclosure also relates to methods which allow preparing RNA lipoplex particles in an industrial GMP-compliant manner. Furthermore, the present disclosure relates to methods and compositions for storing RNA lipoplex particles without substantial loss of the product quality and, in particular, without substantial loss of RNA activity.

21: 2020/01677. 22: 17/03/2020. 43: 5/24/2021  
51: A61K; A61Q

71: UNILEVER PLC

72: PATIL, NIVEDITA JAGDISH, PERALA, SIVA RAMA KRISHNA, RAUT, JANHAVI SANJAY, TIWARI, JYOTI KUMAR

33: EP 31: 17198217.6 32: 2017-10-25

**54: COMPOSITION COMPRISING A STRUCTURED AQUEOUS PHASE AND SERICIN**

00: -

The invention relates to a composition comprising 5 to 100 wt.% of a structured aqueous phase wherein the composition contains 0.1 to 10 wt.% sericin by weight of water, said sericin having a proportion of beta-sheet in the secondary structure that exceeds 80%. It was found that sericin having a proportion of beta-sheet in the secondary structure that exceeds 80% is an excellent water structurant and can suitably be used to structure the aqueous phase of a wide range of products, such as cosmetic products, pharmaceutical products, food products and detergent compositions.

21: 2020/01679. 22: 17/03/2020. 43: 5/24/2021  
51: A61K; C12N

71: 4D MOLECULAR THERAPEUTICS INC.

72: KIRN, DAVID H, KOTTERMAN, MELISSA, SCHAFFER, DAVID

33: US 31: 62/560,901 32: 2017-09-20

**54: ADENO-ASSOCIATED VIRUS VARIANT CAPSIDS AND METHODS OF USE THEREOF**

00: -

Provided herein are variant adeno-associated virus (AAV) capsid proteins having one or more modifications in amino acid sequence relative to a parental AAV capsid protein, which, when present in an AAV virion, confer increased infectivity of one or more types of muscle cells as compared to the infectivity of the muscle cells by an AAV virion comprising the unmodified parental AAV capsid protein. Also provided are recombinant AAV virions and pharmaceutical compositions thereof comprising a variant AAV capsid protein as described herein, methods of making these rAAV capsid proteins and virions, and methods for using these rAAV capsid proteins and virions in research and in clinical practice, for example in, e.g., the delivery of nucleic acid sequences to one or more muscle cells for the treatment of muscle disorders and diseases.

21: 2020/01682. 22: 17/03/2020. 43: 5/24/2021

51: C11D

71: UNILEVER PLC

72: BANGAL, AMALENDU, HIBARE, SUJITKUMAR SURESH, SUBRAHMANYAM, NARAYANAN

33: EP 31: 17196421.6 32: 2017-10-13

**54: DETERGENT COMPOSITION COMPRISING HYDRATE-FORMING SALT PARTICLES COATED WITH BETAINES**

00: -

The present invention relates to solid detergent composition having improved solubility. The present inventors have investigated ways of providing solid detergent composition that has improved solubility in cold-water conditions specifically at temperatures lower than 10°C, more preferably lower than 5°C, and towards providing a coated filler agent for use in detergent composition, which coated filler agent inhibits formation of crystalline masses, which are difficult to disperse, and disperse. After intensive investigations made for the purposes of solving the problem, the inventors have found that a filler agent having high dispersibility and solubility in cold water at temperatures lower than 10°C, more preferably lower than 5°C can be obtained by at least partially

coating the hydrate-forming salt with a betaine class of zwitterionic compound.

21: 2020/01704. 22: 18/03/2020. 43: 5/14/2021

51: A24D

71: PHILIP MORRIS PRODUCTS S.A.

72: JORDIL, Yves, NAPPI, Leonardo

33: EP 31: 17204767.2 32: 2017-11-30

**54: AEROSOL-GENERATING ARTICLE HAVING MOUTHPIECE WITH UPSTREAM CAVITY**

00: -

An aerosol-generating article (10) comprises: an aerosol-generating substrate (12); and a mouthpiece (14) in axial alignment with the aerosol-generating substrate (12), the mouthpiece comprising an additive segment (18) of filtration material comprising one or more breakable capsules (22), each breakable capsule (22) comprising an outer shell and an inner core containing an additive. The additive segment (18) of filtration material is spaced downstream from the aerosol-generating substrate (12) to define an upstream cavity (24) between the aerosol-generating substrate (12) and the additive segment (18) of filtration material, wherein the upstream cavity is substantially unfilled. A wrapper (26) circumscribes the additive segment (18) of filtration material and the upstream cavity (24).

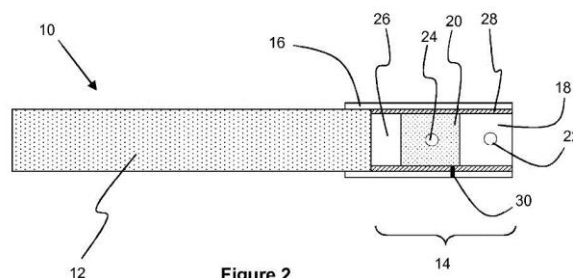


Figure 2

21: 2020/01708. 22: 18/03/2020. 43: 6/3/2021

51: A01N; A61K

71: SAWANT, Arun Vitthal

72: SAWANT, Arun Vitthal

33: IN 31: 201721026745 32: 2017-07-27

**54: NOVEL CROP FORTIFICATION, NUTRITION AND CROP PROTECTION COMPOSITION**

00: -

The invention relates to an algal granular composition comprising at least one alga, and at least one agrochemically acceptable excipients selected from one or more of surfactants, binders or

disintegrant having weight ratio of algae to at least one of surfactant, binder or disintegrant in the range of 99:1 to 1: 99. The algae comprise 0.1% to 90% by weight of the total composition. The composition has a particle size in the range of 0.1 microns to 60 microns. Furthermore, the invention relates to a process of preparing the algal granular composition comprising at least one alga and at least one agrochemically acceptable excipient. The invention further relates to a method of treating the plants, seeds, crops, plant propagation material, locus, parts thereof or the soil with the algal granular composition.

21: 2020/01709. 22: 18/03/2020. 43: 6/3/2021  
51: C12N

71: SAWANT, Arun Vitthal

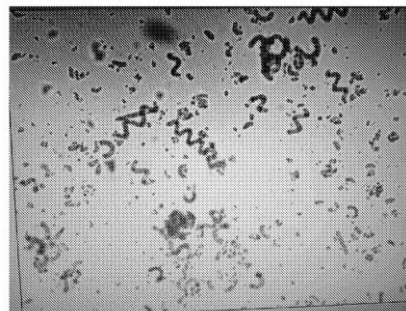
72: SAWANT, Arun Vitthal

33: IN 31: 201721025178 32: 2017-07-15

**54: NOVEL CROP FORTIFICATION, NUTRITION AND CROP PROTECTION COMPOSITION**

00: -

The invention relates to an algal composition in the form of an aqueous suspension. More particularly the invention relates to aqueous suspension composition including one or more algae selected from green algae, red algae, golden algae, brown algae, golden-brown algae, blue algae, blue-green algae or their species in the range of 0.1%-65% by weight with one or more surfactants in the range of 0.1% -50% by weight; with one or more structuring agent in the range of 0.01%-5% by weight, where the composition has a particle size range of from 0.1 micron to 60 microns. Furthermore, the invention relates to a process of preparing the algal composition comprising at least one alga and at least one agrochemically acceptable excipient in the form of an aqueous suspension. The invention further relates to a method of treating the plants, seeds, crops, plant propagation material, locus, parts thereof or the soil with the algal composition in the form of aqueous suspension.



21: 2020/01839. 22: 23/03/2020. 43: 5/24/2021

51: E02F

71: CATERPILLAR INC.

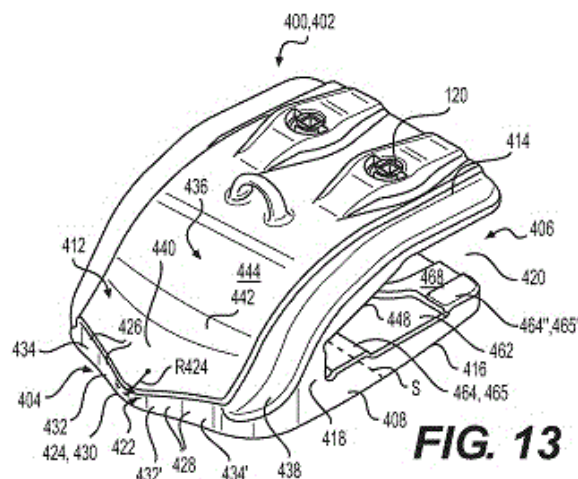
72: BALAN, MIHAI M, SERRURIER, DOUGLAS C

33: US 31: 15/690,994 32: 2017-08-30

**54: HEAVY DUTY SHROUD**

00: -

A shroud (400) configured to be attached to a work implement (110) comprises a ground engaging surface (422) with a convex arcuate portion (424), a first concave arcuate portion (426) on one side of the convex arcuate portion (424), and a second concave arcuate portion (428) on the other side of the convex arcuate portion (424), or an upper outside loading surface (436) extending from the ground engaging surface (422) including a first concave arcuate loading portion (440), a first convex arcuate loading portion (442), and a second convex arcuate loading portion (444).



21: 2020/02045. 22: 04/05/2020. 43: 7/1/2021

51: B60B

71: GV ENGINEERING GMBH

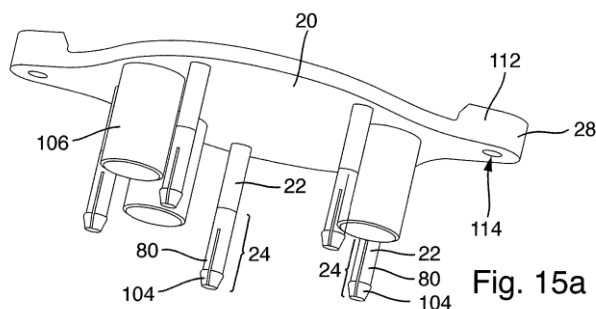
72: TSIBERIDIS, Konstantin

33: DE 31: 10 2017 123 513.2 32: 2017-10-10

**54: EMERGENCY WHEEL**

00: -

The invention relates to an attachment (14) for a vehicle wheel (1) for enabling a driving operation with restricted tyre functions and to a system comprising an attachment (14) and a rim (2) of a vehicle wheel (1).

**Fig. 15a**

21: 2020/02057. 22: 04/05/2020. 43: 5/24/2021

51: E05C

71: RITTAL GMBH &amp; CO. KG

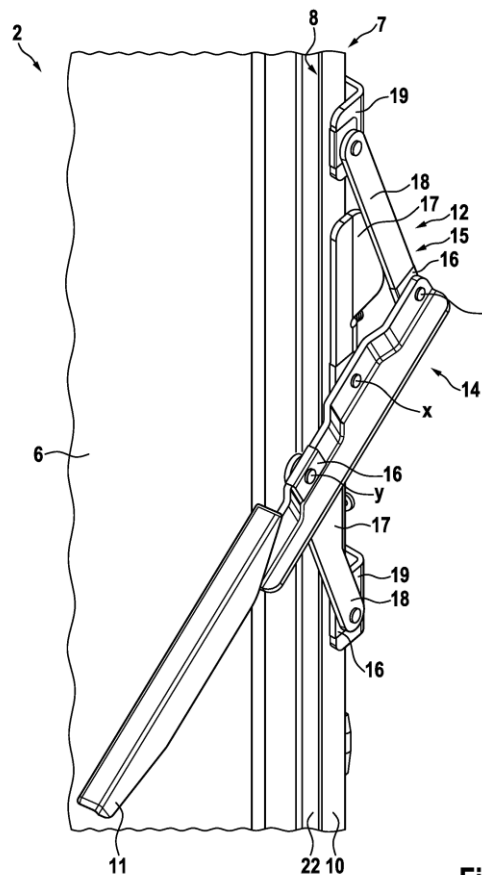
72: BRÜCK, Daniel, WIRBELAUER, Sascha

33: DE 31: 10 2017 127 576.2 32: 2017-11-22

**54: LOCKING DEVICE FOR A SWITCH CABINET AND CORRESPONDING SWITCH CABINET**

00: -

The invention relates to a locking device for a switch cabinet, with a lock door (1) and a secondary door (2), wherein the secondary door (2), on a vertical outer edge (5) opposite its hinge side, has a U-profile (7) formed on a door leaf (6) of the secondary door (2) with a receptacle (8) for a lock mechanism of the lock door (1), which receptacle is offset back relative to the door leaf (6) and which is open towards the door leaf (6), characterized in that on an outer free profile side (10) of the U-profile (7), a swivelling lever (11) of a lock (12) of the secondary door (2) is pivotably mounted about an axis of rotation (x) between an open position and a locking position. Furthermore, a corresponding switch cabinet is described.

**Fig. 1**

21: 2020/02066. 22: 04/05/2020. 43: 3/8/2021

51: A61K

71: CELLIX BIO PRIVATE LIMITED

72: KANDULA, Mahesh

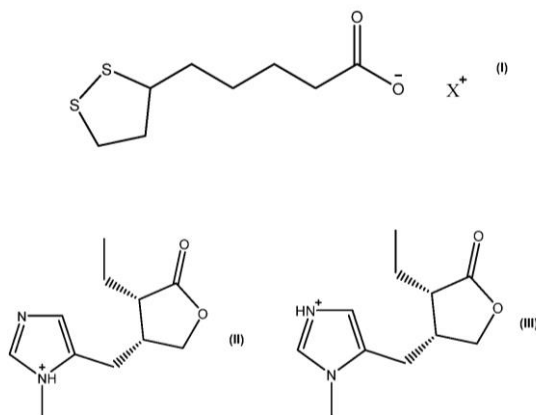
33: IN 31: 201741041231 32: 2017-11-17

**54: COMPOSITIONS AND METHODS FOR THE TREATMENT OF EYE DISORDERS**

00: -

Aspects of the present disclosure provide compound of Formula (I) and pharmaceutically acceptable hydrates, solvates, crystals, co-crystals, enantiomers, stereoisomers, polymorphs and prodrugs thereof that can find utility in treatment of eye disorders and complications associated therewith. Aspects of the present disclosure also relate to methods of treating an eye disorder and/or complications thereof in a subject in need thereof by administering the compound of Formula (I) or a pharmaceutically acceptable hydrate, solvate, crystal, enantiomer, stereoisomer, polymorph or prodrug thereof. Formula (I) wherein, X+ represents, Formula (II) or Formula (III)





21: 2020/02082. 22: 04/05/2020. 43: 5/24/2021  
51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR  
FÖRDERUNG DER ANGEWANDTEN  
FORSCHUNG E.V.

72: SCHNELL, Markus, RAVELLI, Emmanuel,  
BENNDORF, Conrad, ALBERT, Tobias, LUTZKY,  
Manfred, TOMASEK, Adrian

33: EP 31: 17201082.9 32: 2017-11-10

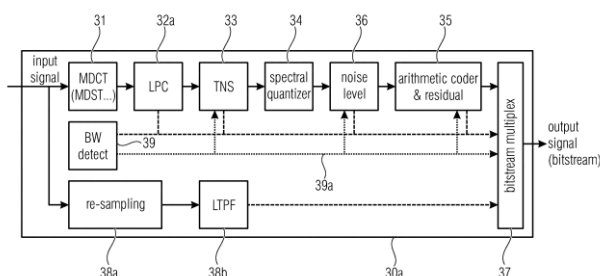
#### 54: CONTROLLING BANDWIDTH IN ENCODERS AND/OR DECODERS

00: -

There are provided examples for encoding and/or decoding information signals (e.g., audio signals). In one example, there is provided an encoder apparatus comprising: a plurality of frequency domain, FD, encoder tools for encoding an information signal, the information signal presenting a plurality of frames; and an encoder bandwidth detector and controller (39) configured to select a bandwidth for at least a subgroup (33, 36) of the plurality of FD encoder tools, the subgroup (33, 36) including less FD encoder tools than the plurality of FD encoder tools, on the basis of information signal characteristics so that at least one of the FD encoder tools of the subgroup (33, 36) has a different bandwidth with respect to at least one of the FD encoder tools which are not in the subgroup (33, 36).

In one example, there is provided a decoder apparatus (40, 40a) comprising a plurality of FD decoder tools (43-48a) for decoding an information signal encoded in a bitstream, wherein: the FD decoder tools are divided: - in a subgroup comprising at least one FD decoder tool (43, 45); - in remaining FD decoder tools comprising at least one FD decoder tool (44, 46, 48a); wherein the decoder apparatus (40, 40a) is configured so as to choose a

bandwidth for at least one of the plurality of decoder tools of the subgroup (43, 45) on the basis of bandwidth information included in the bitstream so that the at least one of the plurality of decoder tools of the subgroup (43, 45) performs signal processing a different bandwidth with respect to at least one of the remaining FD decoder tools of the plurality of decoder tools (44, 46, 48a).



21: 2020/02120. 22: 5/4/2020. 43: 5/7/2021

51: A01N A01P

71: BASF SE

72: XU, Wen, DIECKMANN, Yvonne, LEVY,  
Antoine, BENTON, Kara, Walden, SCHNEIDER,  
Karl-Heinrich

33: EP 31: 17195449.8 32: 2017-10-09

#### 54: NEW AGROCHEMICAL PESTICIDE COMPOSITIONS

00: -

Agrochemical Pesticide Compositions. Agrochemical composition comprising: a) a pesticide, b) a thickener T, c) a polymer P, said polymer P being a homo- or copolymer of (meth)acrylic acid with an average molecular mass  $M_w$  of at least 150,000 Da, said composition being a suspension concentrate (SC) composition. The use of the composition for controlling pests as well as a method of controlling phytopathogenic fungi and/or undesired plant growth and/or undesired insect or mite attack and/or for regulating the growth of plants using the composition.

21: 2020/02148. 22: 04/05/2020. 43: 6/9/2021

51: A63B

71: LIFECORE FITNESS, INC.

72: BATES, Roger, VUJICIC, Marko, WALLACE,  
Gregory, CHILES, Mark

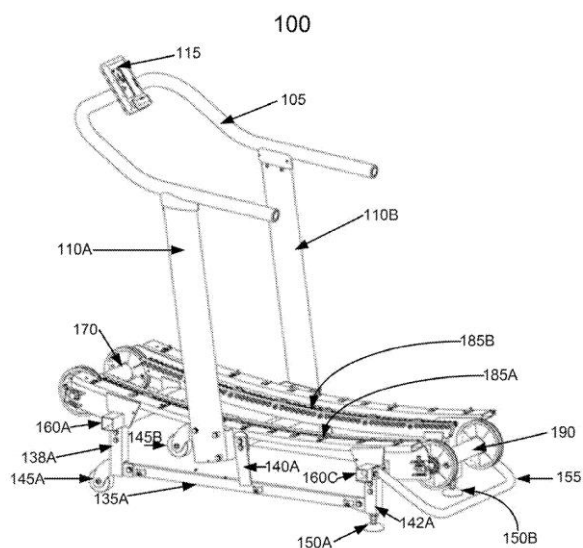
33: US 31: 15/833,991 32: 2017-12-06

#### 54: EXERCISE TREADMILL

00: -



A treadmill has a front or rear set of first pulleys and a looped belt. The pulleys rotate with the belt's movement, eg, when a user walks / jogs / runs on the treadmill. The pulleys are mounted on a roller tube that rotates with the pulleys. A second set of pulleys may be at the opposite end of the treadmill to support the belt. The roller tube is mounted on a stationary shaft using bearings on each side and a one-way device, eg, a sprag clutch, that allows the pulleys to rotate in one direction. The rotation direction corresponds to the movement of the top of the belt from the front to the rear of the treadmill. The one-way device prevents the pulleys from rotating in the opposite direction, preventing the top of the belt from moving from the rear of the treadmill to the front. The treadmill may be motor-less and curved.



21: 2020/02149. 22: 04/05/2020. 43: 3/24/2021  
51: F16L

71: LOMBARDI, Luciano, SPITA, Barbara

72: LOMBARDI, Luciano

33: IT 31: 102017000107809 32: 2017-09-26

33: IT 31: 102018000007599 32: 2018-07-27

#### **54: A SAFETY DEVICE FOR PASSAGE OF PIPES ON BOATS**

00: -

The present invention concerns in particular the nautical equipment sector, with particular reference to the installation of pipes on board of boats of any size and kind. In particular, the present invention deals with safety devices for routing pipes between different sectors of the hull, passing through the

bulkheads separating the various vans/spaces/housings of a boat. More specifically, the present invention describes a device (1) for the passage of pipes (5) for liquids or gases through bulkheads and decks of yachts, mega yachts and naval vessels in general with fireproof characteristics preferably and in a particularly innovative way, even watertight/tight.

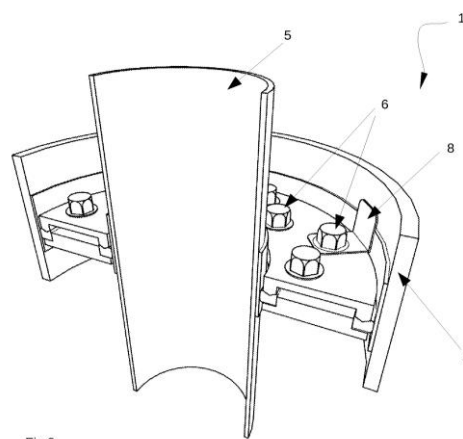


Fig.3

21: 2020/02315. 22: 04/05/2020. 43: 5/18/2021

51: A61K

71: FULCRUM THERAPEUTICS, INC.

72: CACACE, ANGELA MARIE, ROJAS SOTO, LUIS GUSTAVO ALEJANDRO, THOMPSON, LORIN A. III, WALLACE, OWEN BRENDAN, RONCO, LUCIENNE V, SHEN, NING, ROBERTSON, ALAN SCOTT, CHANG, AARON NAKWON

33: US 31: 62/568,673 32: 2017-10-05

33: US 31: 62/682,563 32: 2018-06-08

33: US 31: 62/568,754 32: 2017-10-05

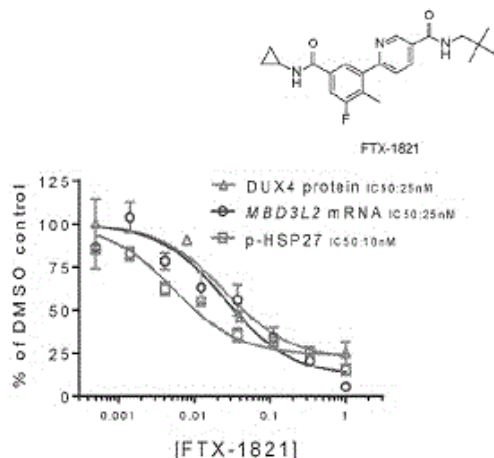
33: US 31: 62/682,565 32: 2018-06-08

#### **54: P38 KINASE INHIBITORS REDUCE DUX4 AND DOWNSTREAM GENE EXPRESSION FOR THE TREATMENT OF FSHD**

00: -

The disclosure relates to methods and compositions including p38 kinase inhibitors and agents that regulate expression of DUX4 and downstream genes including but not restricted to ZSCAN4, LEUTX, PRAMEF2, TRIM43, MBD3L2, KHDCIL, RFPL2, CCNAI, SLC34A2, TPRXI, PRAMEF20, TRIM49, PRAMEF4, PRAME6, PRAMEF15, or ZNF280A. Methods useful for treating a disease associated with abnormal DUX4 and downstream gene expression (e.g., Fascioscapulohumeral muscular dystrophy) are disclosed.

FIG. 7



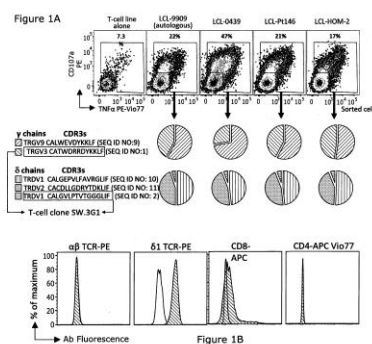
21: 2020/02390. 22: 04/05/2020. 43: 7/2/2021  
 51: C08K; C09D; C21D; C22C  
 71: ARCELORMITTAL  
 72: Thi Tan VU, Carlos LALIENA IRANZO, Marcos  
 PÉREZ RODRÍGUEZ, David NORIEGA PEREZ  
 33: IB 31: PCT/IB2017/058103 32: 2017-12-19  
**54: A COATED STEEL SUBSTRATE**  
 00: -

The present invention relates to a coated steel substrate comprising a coating comprising nanographite having a lateral size between 1 and 60 μm and a binder, wherein the steel substrate has the following compositions in weight percent: 0.31 = C = 1.2%, 0.1 = Si = 1.7%, 0.15 = Mn = 1.1 %, P = 0.01 %, S = 0.1 %, Cr = 1.0%, Ni = 1.0%, Mo = 0.1 %, and on a purely optional basis, one or more elements such as Nb = 0.05 %, B = 0.003%, Ti = 0.06%, Cu = 0.1 %, Co = 0.1 %, N = 0.01 %, V = 0.05%, the remainder of the composition being made of iron and inevitable impurities resulting from the elaboration and a method for the manufacture of the coated steel substrate.

21: 2020/02417. 22: 04/05/2020. 43: 5/24/2021  
 51: C07K  
 71: UNIVERSITY COLLEGE CARDIFF  
 CONSULTANTS LTD  
 72: SEWELL, Andrew, DOLTON, Garry  
 33: GB 31: 1719169.3 32: 2017-11-20  
**54: NOVEL GAMMA DELTA T-CELL RECEPTOR  
 AND ITS LIGAND**  
 00: -

The present disclosure relates to a new T-cell receptor (TCR), in particular at least one complementarity-determining region (CDR) thereof;

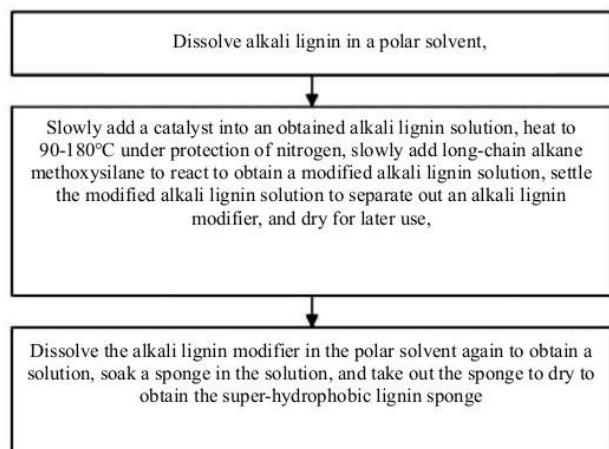
a T-cell expressing said TCR; a clone expressing said TCR; a vector encoding said TCR; a soluble version of said TCR; a pharmaceutical composition or immunogenic agent or bispecific or vaccine comprising said TCR, said cell, said clone or said vector; said TCR or said cell or said clone or said vector or said pharmaceutical composition or immunogenic agent or bispecific or vaccine for use in the treatment of cancer; a method of treating cancer using said TCR, said cell, said clone, said vector, said pharmaceutical composition, immunogenic agent, bispecific or vaccine comprising said TCR; and a ligand with which said TCR binds.



21: 2020/02476. 22: 5/6/2020. 43: 7/2/2021  
 51: B01D  
 71: Qilu University of Technology  
 72: Shoujuan WANG, Haodong SUN, Fangong KONG  
 33: CN 31: 201910547054.2 32: 2019-06-24  
**54: PREPARATION METHOD OF SUPER-HYDROPHOBIC LIGNIN SPONGE WITH OIL-WATER SEPARATION FUNCTION**  
 00: -

The present invention discloses a preparation method of a super-hydrophobic lignin sponge with an oil-water separation function, and relates to the technical field of chemical engineering 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 an alkali lignin modifier, drying for later use, dissolving the alkali lignin modifier in the polar solvent again to obtain a solution, soaking a sponge in the solution, taking out

the sponge and drying, to obtain super-hydrophobic lignin sponge; a modified lignin-processed sponge is utilized to form a super-hydrophobic sponge, and the super-hydrophobic sponge has strong selectivity, and strong oil absorption capacity, adopts raw materials which are cheap and rich in source.



21: 2020/02688. 22: 12/05/2020. 43: 4/7/2021

51: C07C; C10B; C10J

71: KOSONSITTIWIT, Phakorn

72: KOSONSITTIWIT, Phakorn, KEAWLUAN, Sommas, NAKSUK, Paisal, KOSONSITTIWIT, Thanakrit, IMSANGUAN, KITTISAK

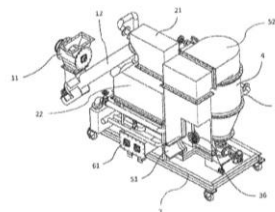
33: TH 31: 1701006292 32: 2017-10-19

#### **54: AN APPARATUS FOR FUEL GAS PRODUCTION AND COMBUSTION**

00: -

An apparatus for fuel gas production and combustion comprises a solid fuel feeding unit for receiving and feeding solid fuel; a gas producing unit being connected to the solid fuel feeding unit for receiving solid fuel from the solid fuel feeding unit; an air feeding unit connected to the gas producing unit for feeding air to the gas producing unit to cause a gasification reaction; an ash trapping unit connected to the gas producing unit for separating fly ash and dust from the fuel gas; a burner unit connected to the ash trapping unit for combusting the fuel gas; and an ash discharging unit connected to the gas producing unit and ash trapping unit and comprising a bottom ash discharging part and a fly ash discharging part, characterized in that the air feeding unit comprises a plurality of air feeding parts wherein at least one air feeding part being connected to the gas producing unit and at least one

air feeding part being connected to the ash trapping unit.



21: 2020/02926. 22: 19/05/2020. 43: 5/24/2021

51: G01C

71: MALEWICZ, Grzegorz

72: MALEWICZ, Grzegorz

33: US 31: 62/608,586 32: 2017-12-21

33: US 31: 62/613,779 32: 2018-01-05

33: US 31: 62/659,157 32: 2018-04-18

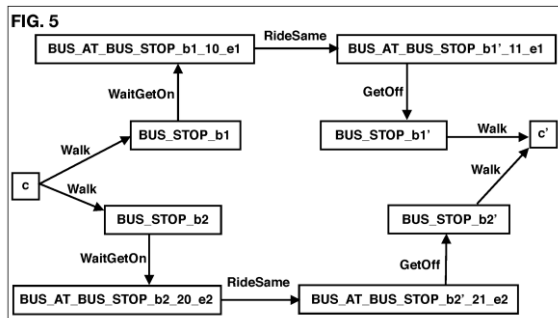
33: US 31: 16/180,050 32: 2018-11-05

33: KR 31: 10-2018-0045558 32: 2018-04-19

#### **54: A METHOD AND A COMPUTER SYSTEM FOR PROVIDING A ROUTE OR A ROUTE DURATION FOR A JOURNEY FROM A SOURCE LOCATION TO A TARGET LOCATION**

00: -

Embodiments relate to producing a plan of a route in a transportation system. The method receives route requirements, including a starting and an ending locations. The method builds a model of the transportation system from data about vehicles. The model abstracts a "prospective travel" between two locations using any of a range of choices of vehicles and walks that can transport between the two locations. Given anticipated wait durations for the vehicles and their ride durations, the method determines an expected minimum travel duration using any of these choices. The method combines the expectations for various locations in a scalable manner. As a result, a route plan that achieves a shortest expected travel duration, and meets other requirements, is computed for one of the largest metropolitan areas in existence today. Other embodiments include a computer system and a product service that implement the method.



21: 2020/03170. 22: 5/28/2020. 43: 5/13/2021  
51: H01B

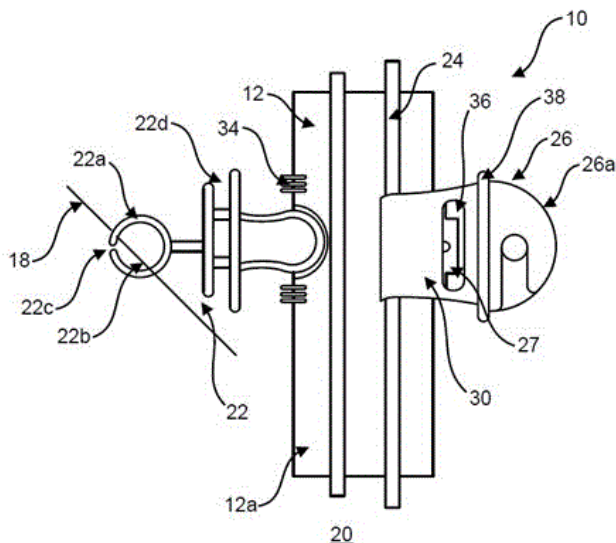
71: NIENHUIS, Jan, Balster

72: NIENHUIS, Jan, Balster

#### 54: COMPOSITE MOULDED ELECTRIC FENCE POST

00: -

A composite moulded electric fence post including a substantially vertical elongate support member which includes an aluminium spine along at least half a length of the support member, plastic moulded over the aluminium spine in the shape of a post for supporting electrically conductive wires relative to a ground surface, on one side of the support member spaced and aligned first wire receiving members for receiving the electrically conductive wires therethrough, and on an opposed side of the support member spaced and aligned mounting means for mounting second wire receiving members on the support member.



21: 2020/03259. 22: 01/06/2020. 43: 5/20/2021  
51: E21B

71: GIEN, Bernard Lionel

72: GIEN, Bernard Lionel

33: ZA 31: 2017/07028 32: 2017-11-07

#### 54: A PNEUMATIC DRILL HAMMER

00: -

The invention relates to a pneumatic drill hammer (101) that includes a hollow control rod (119) supported from a dividing wall (123) of a back-head which withdraws from a piston bore (191) at the first end to exhaust a drive chamber (169). The dividing wall (123) is arranged between a rearwardly disposed, internally screw-threaded socket (115) and a forwardly disposed, integral air distribution skirt (111) that extends into a wear sleeve (109). A back-head connector (137) with an axial inlet (142) and a hollow, externally screw-threaded spigot (125) engages into the socket (139). A check valve closure (125) is provided at one end of a stem that is slidably supported inside the control rod (119) with a spring bias (133) against a valve seat (143) provided by the back-head connector (137). Inclined inlet ports (149) extend from the socket to an air supply passage (154) between the skirt (111) and the wear sleeve (109) to an air distribution chamber (159).



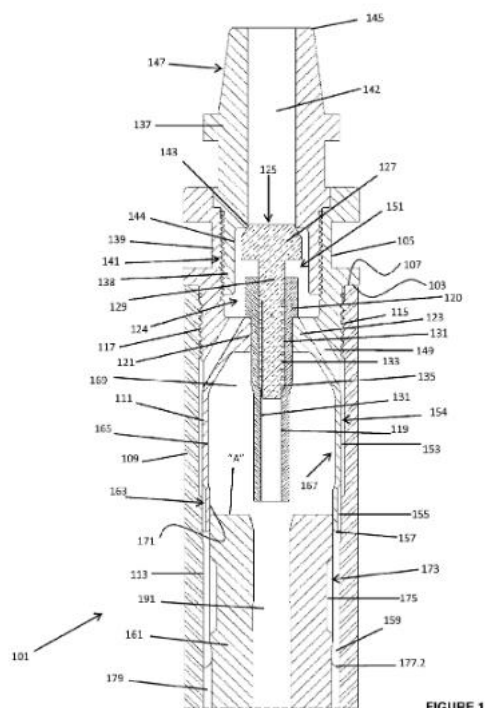


FIGURE 1

cultivars in germination period as provided by the present invention is to: measure wheat seeds in terms of germination percentage, germination energy, root length, first leaf length, coleoptile length, shoot dry weight, seedling fresh weight, root dry weight, and transpiration ratio of dry matter at four different concentrations; calculate relative values and weighted means thereof; and import the weighted mean of each index into calculation formulas of comprehensive index, and calculate a comprehensive salt tolerance index. The method for identifying the salt tolerance of different wheat cultivars in germination period as provided by the present invention features strong systematicness, easy operation, wide adaptability, and strong comprehensiveness.

21: 2020/03313. 22: 6/3/2020. 43: 5/12/2021

51: B23Q B25J

71: GIFT OF LIGHT FAMILY TRUST, IT 677/12

72: DU PLESSIS, Lukas, Johannes

33: US 31: 62/595,157 32: 2017-12-06

#### **54: A MANIPULATING DEVICE**

00: -

The manipulating device (10) includes a tool portion (20) which includes a support member in the form of an I-beam (22) for supporting a tool receiving member (24) and a plurality of connecting members (26) for allowing pivotal interconnection between the support member (22) and a plurality of elongate members (28), a tool manipulating portion (30) for manipulating the tool portion (20), the tool manipulating portion (30) including a support arrangement (32) for supporting a plurality of displacement members (34) for displacing the elongate members (28), a plurality of pivot members (36) for allowing pivotal displacement of the displacement members (34) relative the support arrangement (32) and a retaining means in the form of a plurality of actuators (38) for retaining the support arrangement (32) in position relative a support structure (40).

21: 2020/03267. 22: 6/1/2020. 43: 5/13/2021

51: A01N; A01P

71: UPL LTD

72: GONGORA, Vicente Amadeu, MARCANDALLI, Luiz Henrique, FABRI, Carlos Eduardo, SHROFF, Jaidev Rajnikant, SHROFF, Vikram Rajnikant

33: IN 31: 201731041263 32: 2017-11-17

#### **54: NOVEL COMBINATIONS OF DEFOLIANTS**

00: -

A combination comprising a metal chlorate; and at least another herbicide, a composition comprising the same, a method of use thereof and a kit comprising the same.

21: 2020/03311. 22: 6/3/2020. 43: 5/12/2021

51: A01C

71: QINGDAO AGRICULTURAL UNIVERSITY

72: ZHANG, YUMEI, GUO, WEIWEI

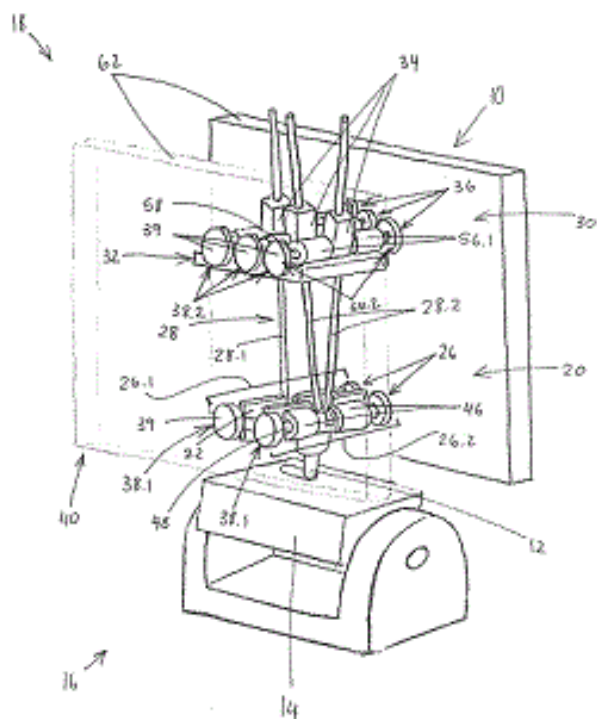
33: CN 31: 201910483552.5 32: 2019-06-04

#### **54: METHOD FOR IDENTIFYING SALT TOLERANCE OF DIFFERENT WHEAT CULTIVAR IN GERMINATION PERIOD**

00: -

The present invention discloses a method for identifying salt tolerance of different wheat cultivars in germination period, and belongs to the application field of agricultural technology. The method for identifying the salt tolerance of different wheat



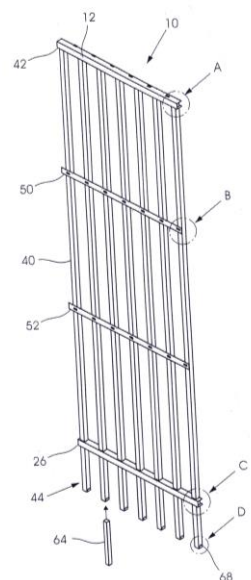


21: 2020/03325. 22: 6/3/2020. 43: 5/12/2021  
 51: A61K; A61P; C07K  
 71: AbbVie Inc.  
 72: HOBSON, Adrian D., MCPHERSON, Michael J.,  
 WAEGELL, Wendy, GOESS, Christian,  
 HERNANDEZ Jr., Axel, WANG, Lu, WANG, Lu,  
 MARVIN, Christopher C., SANTORA, Ling C.  
 33: US 31: 62/593,776 32: 2017-12-01  
**54: GLUCOCORTICOID RECEPTOR AGONIST  
 AND IMMUNOCONJUGATES THEREOF**  
 00: -  
 Provided herein are glucocorticoid receptor agonist  
 immunoconjugates, glucocorticoid receptor agonists,  
 and methods of using the same.

21: 2020/03342. 22: 6/4/2020. 43: 5/12/2021  
 51: E04H  
 71: COCHRANE INDUSTRIES UK LIMITED  
 72: BUCARIZZA, Vlado  
 33: ZA 31: 2019/03565 32: 2019-06-04  
**54: GRID STRUCTURE**  
 00: -

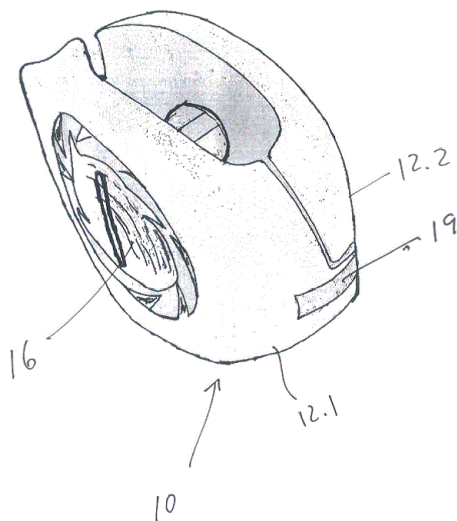
A security grid structure comprising two spaced  
 elongate channel sections with side walls which are  
 formed with spaced apart apertures, and elongate  
 members each of which extends through associated  
 apertures in the side walls, and at least one elongate

element which extends transversely to, and which is  
 secured to, the elongate members.



21: 2020/03343. 22: 6/4/2020. 43: 5/12/2021  
 51: F16G  
 71: ZWIEGELAAR, Einhard  
 72: ZWIEGELAAR, Einhard  
 33: ZA 31: 2019/01517 32: 2019-03-12  
**54: A TENSIONER**  
 00: -

A tensioner for in-line tensioning a line, which  
 includes a mounting assembly for mounting the  
 tensioner onto a line to be tensioned, a spool type  
 element arranged transversally the mounting  
 assembly for accommodating spooled line, an  
 actuator mounted interconnectably with the spool  
 type element, the actuator further being configured  
 to engage a portion of the line and rotatably spool  
 the line about the spool type element, when in use,  
 and a retaining formation configured to, in use, retain  
 the spooled line in a tensioned condition about the  
 spool type element.



21: 2020/03411. 22: 08/06/2020. 43: 5/21/2021  
51: F28D

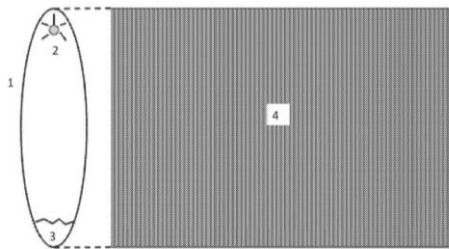
71: WGA WATER GLOBAL ACCESS, SL, NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru  
72: NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru

33: ES 31: U201731494 32: 2017-12-05

**54: ARRANGEMENT FOR A LATENT-HEAT EXCHANGER CHAMBER**

00: -

The invention relates to an arrangement for a latent-heat exchanger chamber, usable in distillation devices, which comprises an evaporator in a capillary evaporation regime on the inner face thereof and a condenser in a capillary condensation regime on the outer face thereof, with a system for the dosed supply of liquid into microgrooves or micro undulations of the inner evaporator face, preventing the formation of thin films of water on the evaporator face, the arrangement achieving high latent-heat transfer coefficients.



21: 2020/03412. 22: 08/06/2020. 43: 5/21/2021  
51: F28D

71: WGA WATER GLOBAL ACCESS, SL, NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru  
72: NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru

33: ES 31: U201731494 32: 2017-12-05

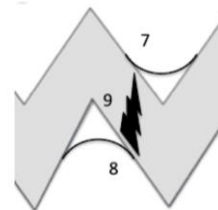
33: ES 31: U201731521 32: 2017-12-13

33: ES 31: PCT/ES2018/070781 32: 2018-12-04

**54: MECHANICAL VAPOUR COMPRESSION ARRANGEMENT HAVING A LOW COMPRESSION RATIO**

00: -

The invention relates to a mechanical vapour compression (MVC) desalination arrangement having a low compression ratio, with latent-heat exchangers having a high latent-heat exchange coefficient, with a temperature gradient between primary vapour and secondary vapour of approximately 1°C or less, a compression ratio of 1.11 or less, high vapour volume, low overheating and a low-temperature saline solution to be desalinated, which arrangement allows industrial desalination with less specific energy per unit of desalinated water and is coupled to 100% renewable off-grid energy sources.



21: 2020/03427. 22: 6/8/2020. 43: 5/21/2021

51: C21C; C22C

71: Elkem ASA

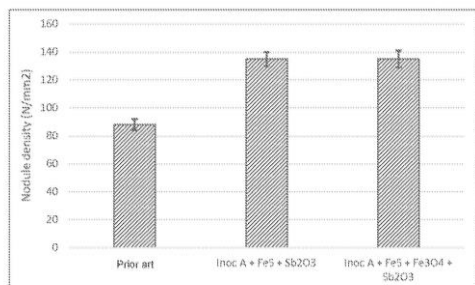
72: OTT, Emmanuelle, KNUSTAD, Oddvar

33: NO 31: 20172063 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 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 Sb<sub>2</sub>O<sub>3</sub>, and at least one of from 0.1 and 15% of particulate Bi<sub>2</sub>O<sub>3</sub>, between 0.1 and 5% of one or more of particulate Fe<sub>3</sub>O<sub>4</sub>, Fe<sub>2</sub>O<sub>3</sub>, FeO, or a mixture thereof, or between 0.1 and 5 % of one or more of particulate FeS, FeS<sub>2</sub>, Fe<sub>3</sub>S<sub>4</sub>, or a mixture thereof, a method for producing such inoculant and use of such inoculant.



21: 2020/03435. 22: 6/9/2020. 43: 5/21/2021

51: C07C

71: EVONIK OPERATIONS GMBH

72: KUCMIERCZYK, Peter, FRANKE, Robert, FRIDAG, Dirk, KNOSSALLA, Johannes, SCHÄPERTÖNS, Marc, GLUTH, Frederik  
33: EP 31: 19179572.3 32: 2019-06-12

#### **54: PROCESS FOR PREPARING AN ALCOHOL FROM HYDROCARBONS**

00: -

The invention provides a process for preparing an alcohol by hydrogenating an ester which is obtained by alkoxycarbonylating a C2 to C20 hydrocarbon having at least one multiple bond, preferably having at least one olefinic double bond, in which the homogeneous catalyst system used is separated from the product mixture by means of membrane separation. In a development of the present invention, the ester thus formed is converted to another ester by transesterification and then hydrogenated.

21: 2020/03436. 22: 6/9/2020. 43: 5/21/2021

51: C07C

71: EVONIK OPERATIONS GMBH

72: KUCMIERCZYK, Peter, FRANKE, Robert, FRIDAG, Dirk, KNOSSALLA, Johannes, SCHÄPERTÖNS, Marc, GLUTH, Frederik  
33: EP 31: 19179571.5 32: 2019-06-12

#### **54: PROCESS FOR PREPARING CARBOXYLIC ACIDS OR SALTS THEREOF FROM HYDROCARBONS**

00: -

The invention relates to a process for preparing carboxylic acids or salts thereof by hydrolysis or saponification of an ester, which is obtained by alkoxycarbonylation of a C2 to C20 hydrocarbon having at least one multiple bond, preferably having at least one olefinic double bond, in which the homogeneous catalyst system used is separated from the product mixture by means of membrane

separation. In a development of the present invention, the ester thus formed is converted into another ester by transesterification and then hydrolysed or saponified.

21: 2020/03455. 22: 6/9/2020. 43: 5/21/2021

51: B32B

71: Saint-Gobain Glass France

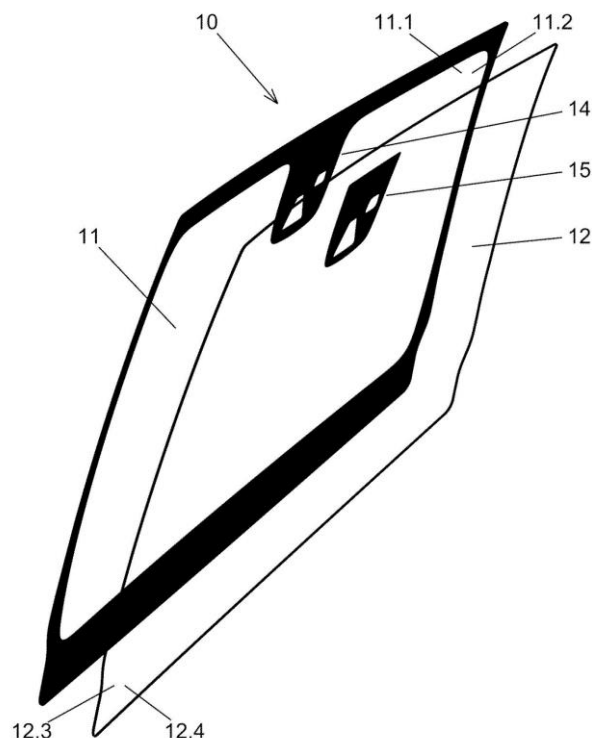
72: WOHLFEIL, Dirk

33: EP(FR) 31: 18151114.8 32: 2018-01-11

#### **54: VEHICLE PANE, VEHICLE, AND METHOD FOR PRODUCING SAME**

00: -

The invention relates to a vehicle pane (10), in particular for a motor vehicle, a bus, a train or a ship, comprising at least a first pane element (11) and a second pane element (12) which are joined face to face so that the vehicle pane (10) has a first pane face (11.1), a second pane face (11.2), a third pane face (12.3) and a fourth pane face (12.4). The second pane face (11.2) has a first printed region (14) and the third or fourth pane face (12.3; 12.4) has a second printed region (15) for forming a viewing region (16) along the vehicle pane (10). The first and second printed regions (14; 15) are each designed with at least a first, second and third zone (14.1; 14.2; 14.3; 15.1; 15.2; 15.3), wherein at least some portions of at least one of the first and/or second zones (14.1; 14.2; 15.1; 15.2) are printed and none of the third zones (14.3; 15.3) are printed. Each second zone (14.2; 15.2) forms a transition region between a first zone (14.1; 15.1) and a third zone (14.3; 15.3), so that at least one optical effect of the first printed region (14) can be compensated by an optical effect of the second printed region (15).



#### **54: TEST METHOD AND SYSTEM FOR SULFATE ATTACK RESISTANCE OF CONCRETE MATERIAL**

00: -

The invention discloses a test method and system for sulfate attack resistance of a concrete material. Acquiring multiple samples; conducting an initial ultrasonic velocity test on the ultrasonic testing surfaces of each sample; conducting a sulfate attack dry-wet circle experiment on the experimental group; conducting multiple ultrasonic velocity tests on the experimental group which has gone through the sulfate attack dry-wet circle experiment to obtain experimental ultrasonic velocities; conducting a clear water dry-wet circle experiment on the control group; conducting the multiple ultrasonic velocity tests on the control group which has gone through the clear water dry-wet circle experiment to obtain contrast ultrasonic velocities; calculating material damage parameters of each ultrasonic testing surface according to the initial ultrasonic velocities, the experimental ultrasonic velocities and the contrast ultrasonic velocities; and judging damage degree of each ultrasonic testing surface to complete a test of the sulfate attack resistance of the concrete material.

21: 2020/03461. 22: 6/10/2020. 43: 5/21/2021

51: B01D

71: EVONIK OPERATIONS GMBH

72: KUCMIERCZYK, Peter, FRANKE, Robert, FRIDAG, Dirk, KNOSSALLA, Johannes, SCHÄPERTÖNS, Marc, GLUTH, Frederik

33: EP 31: 19179570.7 32: 2019-06-12

#### **54: PROCESS FOR PREPARING AN ESTER BY ALKOXYCARBONYLATION**

00: -

The invention relates to a process for preparing an ester by alkoxy carbonylation of a C2 to C20 hydrocarbon having at least one multiple bond, preferably having at least one olefinic double bond, in which the homogeneous catalyst system used is separated from the product mixture by means of membrane separation and recycled into the reaction zone. In a development of the present invention, the ester thus formed is converted into another ester by transesterification.

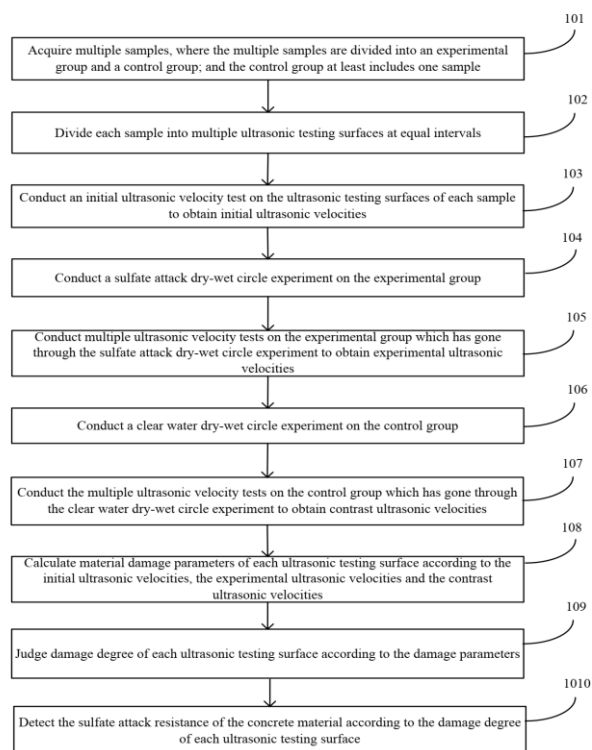
21: 2020/03466. 22: 6/10/2020. 43: 5/26/2021

51: C04B; G01D; G01H

71: CENTRAL SOUTH UNIVERSITY

72: LIU, Dunwen, JIAN, Yinghua, TANG, Yu, GONG, Yongzhi, LIU, Zeyue, GAN, Qinglin

33: CN 31: 201910846899.1 32: 2019-09-09



21: 2020/03487. 22: 6/10/2020. 43: 5/21/2021

51: A01N; C07D

71: Syngenta Participations AG

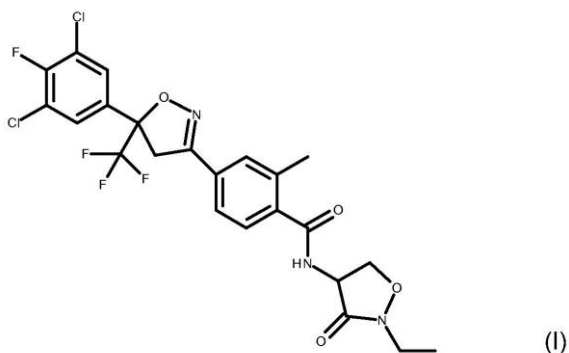
72: GEORGE, Neil, JONES, Ian Kevin, HONE, John

33: GB 31: 1721235.8 32: 2017-12-19

**54: POLYMORPHS**

00: -

The present invention relates to solid forms of the insecticide of formula (I): compositions comprising the solid forms and methods of their use as insecticides.



21: 2020/03532. 22: 12/06/2020. 43: 6/23/2021

51: C21D; C22C; C23C

71: ARCELORMITTAL

72: Coralie JUNG, Astrid PERLADE, Kangying ZHU, Frédéric KEGEL

33: IB 31: PCT/IB2017/058122 32: 2017-12-19

**54: HIGH STRENGTH AND HIGH FORMABILITY STEEL SHEET AND MANUFACTURING METHOD**

00: -

High strength and high formability steel sheet and manufacturing method Cold-rolled and heat-treated steel sheet, having a composition comprising, by weight percent:  $0.10\% \leq C \leq 0.25\%$ ,  $3.5\% \leq Mn \leq 6.0\%$ ,  $0.5\% \leq Si \leq 2.0\%$ ,  $0.3\% \leq Al \leq 1.2\%$ , with  $Si + Al = 0.8\%$ ,  $0.10\% \leq Mo \leq 0.50\%$ ,  $S = 0.010\%$ ,  $P = 0.020\%$ ,  $N = 0.008\%$ , said cold-rolled steel sheet having a microstructure consisting of, in surface fraction: between 10% and 45% of ferrite, having an average grain size of at most 1.3 mm, the product of the surface fraction of ferrite by the average grain size of the ferrite being of at most 35 mm%, between 8% and 30% of retained austenite, said retained austenite having an Mn content higher than  $1.1 \cdot Mn\%$ , Mn% designating the Mn content of the steel, at most 8% of fresh martensite, at most 2.5% of cementite and partitioned martensite.

21: 2020/03537. 22: 6/12/2020. 43: 5/12/2021

51: G06Q

71: Winqest, Inc.

72: FARAGUNA, Christopher

33: US 31: 15/811,873 32: 2017-11-14

**54: SYSTEM AND METHOD FOR PROVIDING REAL-TIME TARGETED ADVERTISEMENTS**

00: -

A system for providing real-time targeted advertising based on one or more categorical identifiers, comprises a social networking platform requiring users to create user profiles, one or more computing platforms capable of storing a cookie used to track a user's navigation on the social networking platform, an incentivized data collection technique comprising activities executed through the social networking platform for obtaining demographic information and interest information from users, means for assigning one or more unique identifiers to a user based on the demographic and interest information obtained from the user, and a module operating on the social networking platform for allowing advertisers to preassign to one or more ads unique identifiers applicable to the advertisers' targeted users, where the module matches the unique identifiers of the ads to categorical identifiers in real-time as the



categorical identifiers are assigned to a user, and the module immediately displays the ads to the matched users.

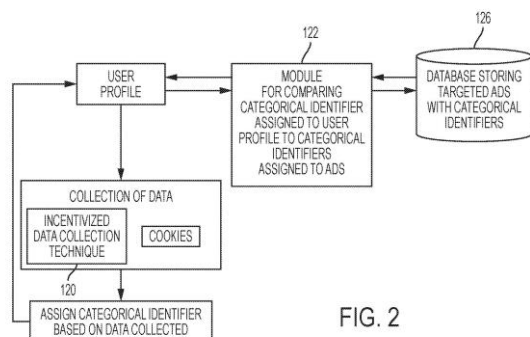
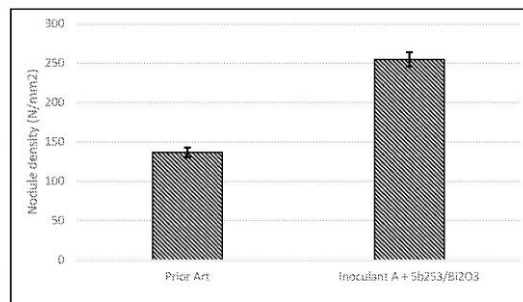


FIG. 2



21: 2020/03573. 22: 15/06/2020. 43: 7/7/2021  
51: A61H

71: ZHANG, Poxuan

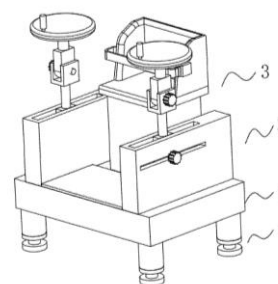
72: ZHANG, Poxuan, GNEG, Dan

33: CN 31: 201811572709.3 32: 2018-12-21

#### 54: SAFE AND RELIABLE UPPER LIMB EXERCISE DEVICE

00: -

The invention discloses a safe and reliable upper limb exercise device, comprising a bottom plate, two sets of upper limb exercise units are symmetrically arranged on both sides of the upper part of the bottom plate, and the upper part of the bottom plate is arranged between two sets of upper limb exercise units Support unit. The invention has better applicability, can satisfy different old users' exercise habits, has better safety performance, can prevent the old users from falling accidents when using the device, thereby ensuring the personal safety of the old users, and can reduce the burden of the old users To save the physical strength of the elderly users and prevent the dangers caused by the overstretched physical strength of the elderly users. For elderly users with rotator cuff injuries, after using the device for four to five months of exercise, the muscles of the rotator cuff injuries.



21: 2020/03609. 22: 6/17/2020. 43: 4/30/2021  
51: G06F

21: 2020/03540. 22: 6/12/2020. 43: 5/12/2021

51: C21C; C22C

71: Elkem ASA

72: OTT, Emmanuelle, KNUSTAD, Oddvar

33: NO 31: 20172062 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 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 Sb<sub>2</sub>S<sub>3</sub>, and optionally between 0.1 and 15 % of particulate Bi<sub>2</sub>O<sub>3</sub>, and/or between 0.1 and 15 % of particulate Sb<sub>2</sub>O<sub>3</sub>, and/or between 0.1 and 15 % of particulate Bi<sub>2</sub>S<sub>3</sub>, and/or between 0.1 and 5 % of one or more of particulate Fe<sub>3</sub>O<sub>4</sub>, Fe<sub>2</sub>O<sub>3</sub>, FeO, or a mixture thereof, and/or between 0.1 and 5 % of one or more of particulate FeS, FeS<sub>2</sub>, Fe<sub>3</sub>S<sub>4</sub>, or a mixture thereof, a method for producing such inoculant and use of such inoculant.

71: DESAI, Nikhil Rajendra

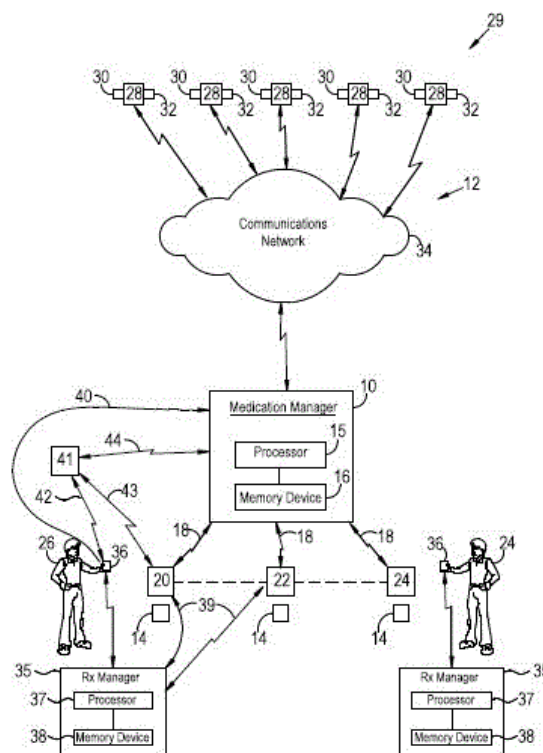
72: DESAI, Nikhil Rajendra

33: ZA 31: 2019/03961 32: 2019-06-19

**54: TRACK AND TRACE SYSTEM FOR AND RELATED METHOD OF MANAGING THE DISPENSING OF A PRODUCT**

00: -

A computer-implemented method of managing the dispensing of a product is provided, the method including receiving, by at least one processor, a dispense request message for dispensing the product, the dispense request message including an identifier to identify the person to whom the product is to be dispensed; comparing, by the at least one processor, the dispense request message to previously dispensed products that have been dispensed to the person, using the person's identifier; determining, by the at least one processor, whether the requested product may be dispensed to the person, with reference to predetermined rules or guidelines; and if approved, sending, by the at least one processor, a dispense confirmation message to allow the product to be dispensed to the person. In an embodiment, the product is medication, typically all S0 to S6 medicines, that is being dispensed by a retailer, pharmacy or dispensing doctor to the person.



21: 2020/03614. 22: 6/17/2020. 43: 5/21/2021

51: G01N

71: SHAANXI NORMAL UNIVERSITY

72: KANG, JIEFANG, HAN, BINKAI, BI, HUAILONG, NIU, DOU, CHEN, XUE, WANG, TING, AN, SHUJING, TANG, XUE, LI, JIAXIN

33: CN 31: 202010055039.9 32: 2020-01-17

**54: METHOD FOR SIMULTANEOUSLY DETERMINING SEVEN COMPONENTS IN CORNI FRUCTUS**

00: -

The present invention relates to the field of chemical component determination, and provides a method for simultaneously determining gallic acid, 5-hydroxymethylfurfural, protocatechuic acid, morroniside, loganin, sweroside and cornuside in Corni Fructus. In the present invention, the contents of the foregoing seven components can be determined respectively through reasonable control of gradient elution procedures. In the spectrogram obtained by adopting the determination method provided by the present invention, the resolution between each component peak and an adjacent peak is greater than 1.5. The determination method provided by the present invention has the advantages of simplicity, convenience, high

sensitivity, good repeatability and high recovery rate, and a novel method is provided for quality control of the Corni Fructus.

21: 2020/03629. 22: 6/17/2020. 43: 4/28/2021

51: B29C C08L B29K

71: EVONIK OPERATIONS GMBH

72: TRASSL, Christian, RICHTER, Thomas

33: EP 31: 17203684.0 32: 2017-11-27

**54: HIGH-TEMPERATURE FOAMS WITH REDUCED RESIN ABSORPTION FOR PRODUCING SANDWICH MATERIALS**

00: -

The present invention relates to the field of producing high- temperature foams, such as are used in the construction of aircraft, ships and rail and other vehicles, in particular further processed into sandwich materials by joining together with two outer layers. Provided for this is a novel process for producing high-temperature foams (HT foams) that are particularly suitable for producing such sandwich components for lightweight construction. This process achieves an improvement in the processability of the HT foams produced according to the invention and a weight reduction of the sandwich materials. The HT foams are furthermore rigid particle foams which, can be produced much more economically than rigid block foams. The present invention brings about in particular a reduction in the resin absorption in fibre composite processes by a process-related optimization of the surface finish.

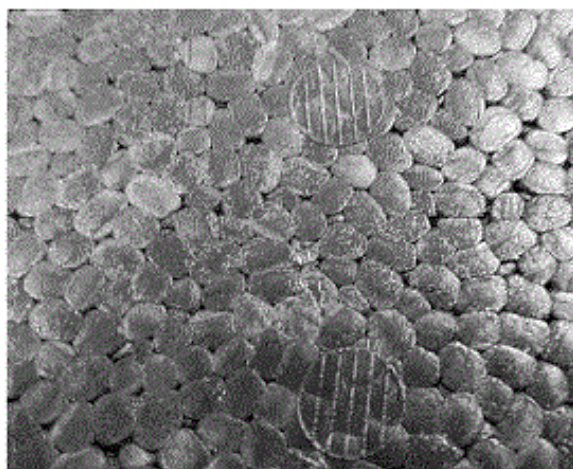


Abbildung 1 <sup>AA</sup>

AA Figure 1

21: 2020/03766. 22: 6/22/2020. 43: 4/28/2021

51: A61B G21K H01J

71: ADAPTIX LIMITED

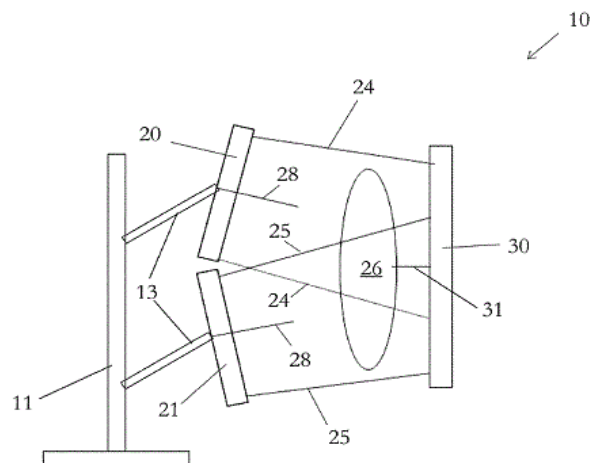
72: MCKEAN, Wes, WELLS, Steve, TRAVISH, Gil

33: GB 31: 1719599.1 32: 2017-11-25

**54: AN X-RAY IMAGING DEVICE**

00: -

An x-ray imaging device (10) comprising at least two substantially planar panels (20, 21), each panel comprising a plurality of x-ray emitters housed in a vacuum enclosure, wherein the at least two panels each have a central panel axis (28) and are arranged such that their central panel axes are non-parallel to one another, the device further comprising a panel retaining means and arranged such that the panel retaining means retains the at least two panels stationary in relation to an object during x-raying of the object.



21: 2020/03801. 22: 6/23/2020. 43: 6/9/2021

51: B07C

71: Qilu University of Technology

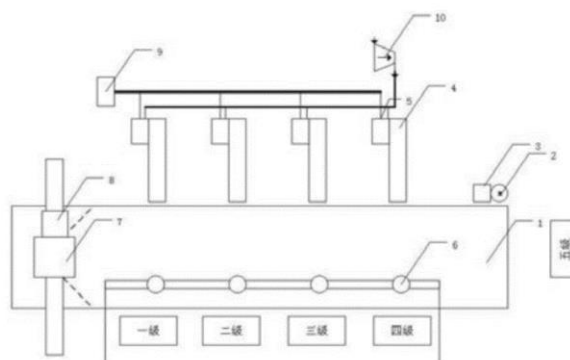
72: MA, Fengying, FENG, Jundong, YU, Wenzhi, LIAN, Lei, LU, Hongda, GUO, Rui

33: CN 31: 201910553345.2 32: 2019-06-25

**54: AUTOMATIC VENEER GRADE CLASSIFICATION DEVICE AND VENEER GRADE CLASSIFICATION METHOD**

00: -

An automatic veneer grade classification device and a veneer grade classification method, including a transmission device. An image recognition device and a classification execution device are arranged in the running direction of the transmission device in sequence, wherein the image recognition device is arranged directly above the conveying plane of the transmission device. The classification execution device includes an execution controller, a positioning sensor, a pusher and a receiver. The pusher and the receiver are arranged opposite to each other on both sides of the conveying plane of the transmission device. The positioning sensor and the pusher are electrically connected with the execution controller. A communication link is established between a recognition controller and the image recognition device. Compared with the use of photoelectric diffuse reflection to determine the grade of veneer, the device provided by the present disclosure has the advantages in low cost, high accuracy and the ability to divide a plurality of veneer grades according to needs, so that the classification of the veneer quality is more refined.



21: 2020/03849. 22: 24/06/2020. 43: 5/27/2021

51: A61K; C07K; C12N

71: POSEIDA THERAPEUTICS, INC.

72: OSTERTAG, Eric, SHEDLOCK, Devon

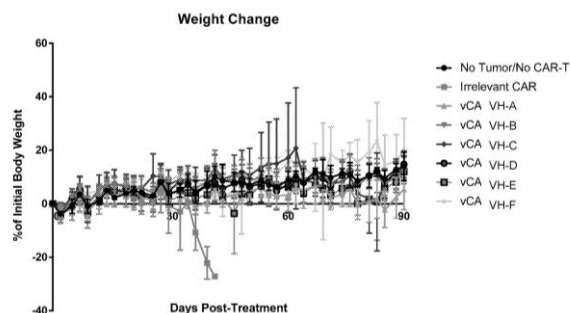
33: US 31: 62/608,571 32: 2017-12-20

33: US 31: 62/608,894 32: 2017-12-21

**54: VCAR COMPOSITIONS AND METHODS FOR USE**

00: -

Disclosed are VHH chimeric antigen receptors (VCARs), VCAR transposons encoding VCARs of the disclosure, cells modified to express VCARs of the disclosure, as well as methods of making and methods of using the same for adoptive cell therapy.



21: 2020/03858. 22: 25/06/2020. 43: 5/27/2021

51: A61K; C07K; C12N; A61P

71: JOINT STOCK COMPANY "BIOCAD"

72: BRITANOVA, Olga Vladimirovna, IZRAELSON, Mark Aleksandrovic, LUKYANOV, Sergey Anatolevich

33: RU 31: 2017145662 32: 2017-12-25

**54: MONOCLONAL ANTIBODIES AND METHODS FOR USING SAME**

00: -

The invention relates to monoclonal antibodies which specifically bind to the TRBV9 family of human T-cell receptors. The invention also relates to a nucleic acid which codes for said antibody or for



an antigen-binding fragment thereof, to an expression vector, to a method for producing the antibody, and to the use of said antibody for treating diseases or disorders associated with the family of human T-cell receptors. The invention is directed towards producing antibodies which can be used for eliminating T-cells carrying T-cell receptors of the TRBV9 family, in particular for treating ankylosing spondylitis, coeliac disease and blood cancers, in the pathogenesis of which T-cell receptors of the TRBV9 family are involved.

21: 2020/03877. 22: 25/06/2020. 43: 5/12/2021

51: A61K; A61P

71: SCIENCONS AS

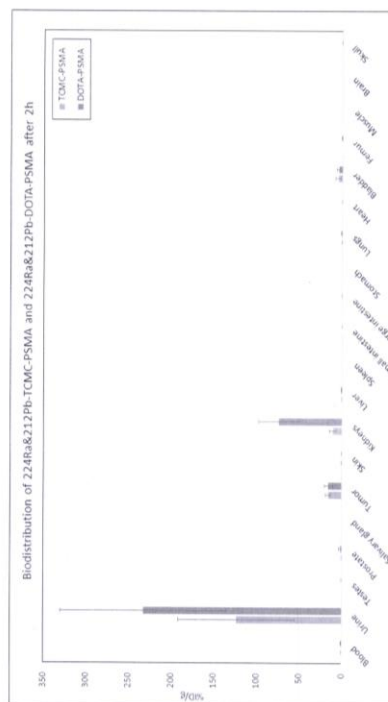
72: LARSEN, Roy Hartvig

33: EP 31: 17206887.6 32: 2017-12-13

**54: COMPLEX COMPRISING A PSMA-TARGETING COMPOUND LINKED TO A LEAD OR THORIUM RADIONUCLIDE**

00: -

The present invention relates to complexes comprising a prostate- specific membrane antigen (PSMA) targeting compound linked to a radionuclide, such as  $^{212}\text{Pb}$  or  $^{227}\text{Th}$ , through a TCMC or DOTA chelating moiety. These compounds, and pharmaceutical compositions comprising them, can be used for medical applications. These applications include the treatment of prostate cancer, and the complexes allow for dual targeting of cancers.



21: 2020/03891. 22: 6/26/2020. 43: 5/13/2021

51: G05D

71: SAFEMINE AG

72: HAUSER, FABIAN, BAYUELO, MARCOS, HIRTZ, BARBARA, KRITTER, FABIEN

33: EP 31: 19186040.2 32: 2019-07-12

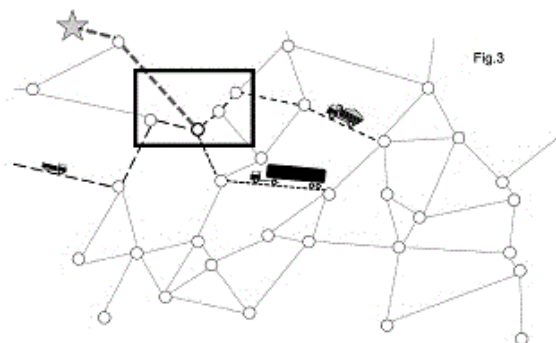
**54: MINING OR CONSTRUCTION VEHICLE ASSISTANCE SYSTEM**

00: -

The invention relates to a vehicle assistance system for haul roads on a construction site or a mining site, comprising a computer and a client device, the computer configured for receiving an identification reference of a first vehicle, receiving a current position of the first vehicle, providing a route of the first vehicle based on the identification reference of the first vehicle and the current position of the first vehicle, receiving an identification reference of a second vehicle, receiving a current position of the second vehicle, providing a route of the second vehicle based on the identification reference of the second vehicle and the current position of the second vehicle, detecting an expected location where the route of the first vehicle and the route of the second vehicle intersect or overlap, detecting an expected time when the first vehicle and the second vehicle intersect at the expected location, generating



adaptation data based on the expected location and the expected time, the adaptation data representing an adaptation of a route parameter of the route of the first or second vehicle, or a driving parameter of the first vehicle or of the second vehicle, sending the adaptation data to the client device, the client device configured for being carried in the first or second vehicle, receiving the adaptation data, and outputting an assistance signal based on the adaptation data.



21: 2020/03900. 22: 6/26/2020. 43: 5/5/2021

51: A01N; A01P

71: UPL LTD

72: KUMAR, Ajit, SHROFF, Jaidev Rajnikant, SHROFF, Vikram Rajnikant

33: IN 31: 201731042642 32: 2017-11-28

#### **54: HERBICIDAL COMBINATIONS**

00: -

A herbicidal combination comprising (a) saflufenacil; (b) an organophosphorus herbicide; and (c) an arsenical herbicide; a composition comprising the same and a method of use thereof is described.

21: 2020/03902. 22: 6/26/2020. 43: 5/13/2021

51: A01N; A01P

71: UPL LTD

72: KUMAR, Ajit, SHROFF, Jaidev Rajnikant, SHROFF, Vikram Rajnikant

33: IN 31: 201731042657 32: 2017-11-28

#### **54: HERBICIDAL COMBINATIONS**

00: -

Disclosed herein is a A herbicidal combination comprising saflufenacil, Napropamide or Napropamide-M and a third herbicide.

21: 2020/03906. 22: 26/06/2020. 43: 5/13/2021

51: B66C; E02F

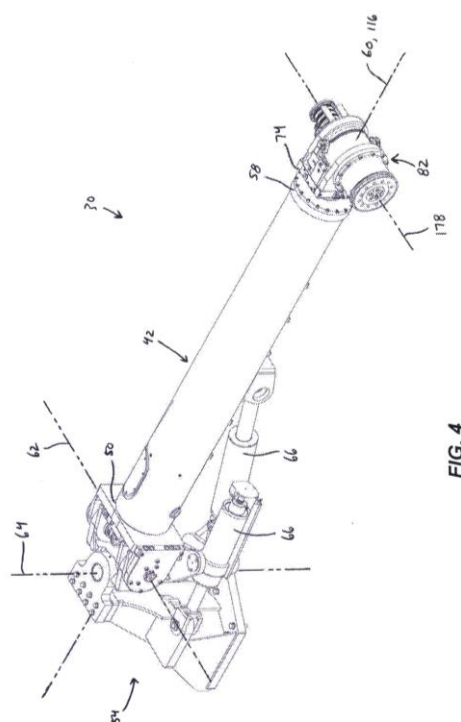
71: JOY GLOBAL UNDERGROUND MINING LLC

72: HANNA, Peter, TYLER, Callum, NEILSON, Brad  
33: US 31: 62/598,225 32: 2017-12-13

#### **54: SUPPORT FOR DRILLING AND BOLTING TOOL**

00: -

A boom for supporting a drilling and bolting tool includes a first portion including a first end and a second end, a longitudinal axis extending between the first end and the second end; a second portion including a proximal end and a distal end, the proximal end supported for translational movement relative to the first portion in a direction parallel to the longitudinal axis, the distal end configured to support the drilling and bolting tool; an actuator for moving the second portion relative to the first portion parallel to the longitudinal axis; and a fluid passage for conveying pressurized fluid between the first end of the first portion and the drilling and bolting tool adjacent the distal end of the second portion, the fluid passage positioned within the first portion and the second portion.



21: 2020/03907. 22: 26/06/2020. 43: 5/14/2021

51: C12N; C12Q

71: BIOTECHNOLOGY RESEARCH CENTER, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES

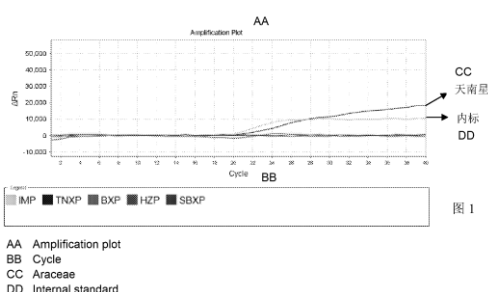
72: ZHANG, Quanfang, LIU, Yanyan, FAN, Yangyang, TAN, Qingqing, CHEN, Xueyan, BU, Xun

33: CN 31: 201811025730.1 32: 2018-09-04

**54: FLUORESCENT PCR DETECTION KIT FOR IDENTIFYING FOUR ARACEAE MEDICINAL PLANTS AND USE THEREOF**

00: -

The present invention discloses a fluorescence PCR detection kit for identifying four Araceae medicinal plants (Arisaematis rhizoma, Pinelliae rhizoma, Rhizoma pinellia pedatisecta, and Rhizoma typhonium flagelliforme) and use thereof. The detection kit for identifying four Araceae medicinal plants includes an Arisaematis rhizoma specific primer and a specific probe thereof, a Pinellia universal specific primer, a Pinelliae rhizoma specific probe, a Rhizoma pinellia pedatisecta specific probe, a Rhizoma typhonium flagelliforme specific primer and a specific probe thereof, and an internal standard quality control specific primer and a specific probe thereof, with nucleotide sequences shown in SEQ ID NO.1-13. According to the present invention, the specific fluorescent probe is matched with a template. The kit has high specificity, high amplification efficiency, high sensitivity, high accuracy, good reproducibility and short detection cycle, can complete detection within 1.5 h, can detect DNA amplification reaction in real time, has high feasibility and application prospect, and can provide a scientific and reliable method for solving the phenomenon of chaotic use of Araceae plants in the traditional Chinese medicine market at present.

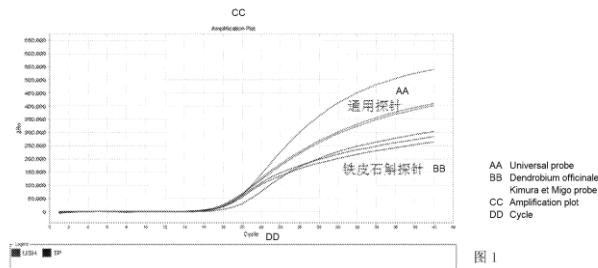
21: 2020/03909. 22: 26/06/2020. 43: 5/14/2021  
51: C12Q71: BIOTECHNOLOGY RESEARCH CENTER,  
SHANDONG ACADEMY OF AGRICULTURAL  
SCIENCES72: CHEN, Xueyan, ZHANG, Quanfang, LIU,  
Yanyan, FAN, Yangyang, TAN, Qingqing, HU, Yue,  
LIU, Guoxia, BU, Xun

33: CN 31: 201810606681.4 32: 2018-06-13

**54: FLUORESCENCE PCR DETECTION KIT FOR IDENTIFYING DENDROBIUM OFFICINALE KIMURA ET MIGO AND USE**

00: -

The present invention discloses a fluorescence PCR detection kit for identifying Dendrobium officinale and use thereof. The kit includes Dendrobium officinale specific primers and specific probes, with nucleotide sequences shown in SEQ ID NO. 1-3; and nucleotide sequences of Dendrobium universal primers and universal probes are shown in SEQ ID NO. 4-6. PCR amplification using the fluorescence PCR detection kit can be used to identify Dendrobium officinale and Dendrobium plants. According to the present invention, the specific fluorescent probe is matched with a template. The kit has high specificity, high amplification efficiency, high sensitivity, high accuracy, good reproducibility and short detection cycle, can complete detection within 1.5 h, can detect DNA amplification reaction in real time, has high feasibility and application prospect, and protects the real Dendrobium officinale's position in the traditional Chinese medicine market.

21: 2020/03931. 22: 6/29/2020. 43: 5/14/2021  
51: E21F; F16L71: COMBRINK, Jan Rasmus, BERKOWITZ, Isaac  
Justin

72: COMBRINK, Jan Rasmus

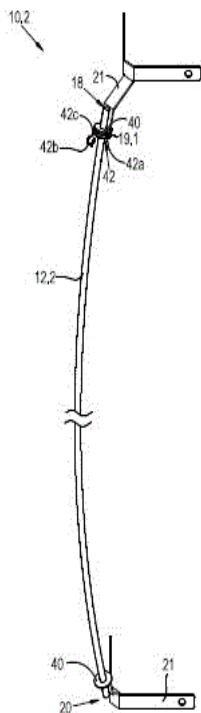
33: ZA 31: 2019/04565 32: 2019-07-12

**54: SUPPORT BRACKET FOR A ROPE**

00: -

The invention relates to a support bracket for a rope, the support bracket including an elongate body made from arcuately curved round bar which is configured to be mounted to a wall by way of mounting brackets provided at opposite ends of the round bar and a rope guide, configured to receive or hold the rope, connected to the elongate body. The rope guide is longitudinally displaceable relative to

the body between an inoperative upper condition and an operative lower condition. A retaining means in the form of a magnet is provided at an operatively upper end of the elongate body in order releasably to hold the rope guide in its inoperative upper condition.

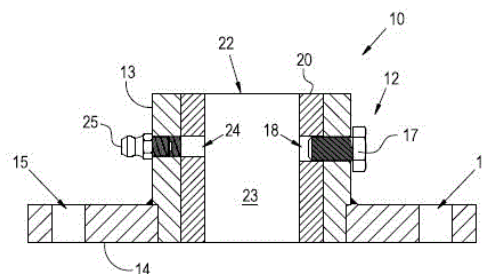


21: 2020/03933. 22: 6/29/2020. 43: 5/14/2021  
51: F16C  
71: VAN ZYL, Jacobus Albertus  
72: VAN ZYL, Jacobus Albertus  
**54: A BEARING**

00: -

The invention relates to a bearing 10 for a revolving shaft. The bearing includes a housing 12 which includes a circular cylindrical body 13 which is connected to a mounting flange 14 for securing the housing to a surface. The body 13 defines a central circular aperture for coaxially, removably receiving a circular cylindrical polymeric bush 20 defining an inner bore 22 for receiving the shaft. The body 13 includes a grease nipple 25 and a diametrically opposing bush-retaining bolt 17 which screw-threadingly engages the sidewall of the body 13. The bush-retaining bolt 17 is configured to extend at least partially into a hole 18 formed in the bush 20 such that the bolt 17 serves to irrotationally and

removably secure the bush 20 to the housing 12. The bush 20 can be easily removed and replaced when worn without having to replace the housing 12.



21: 2020/03934. 22: 6/29/2020. 43: 5/5/2021

51: B60K

71: CATERPILLAR INC.

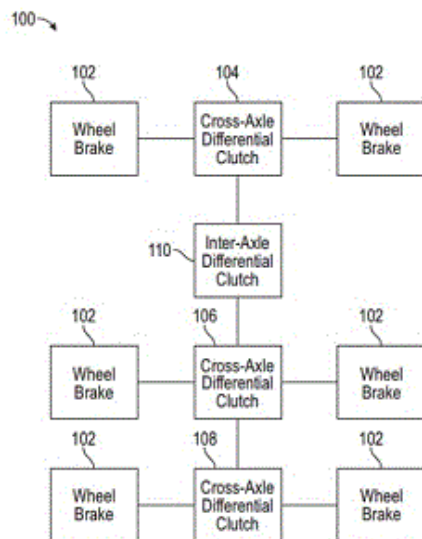
72: SCHWARTZ, TIMOTHY D, PUGH, RUSSELL J.,  
MCKNIGHT, JAMES B., WISLEY, DAVID R

33: US 31: 16/513,444 32: 2019-07-16

# **54: LOCKING OUT A MACHINE TO PROHIBIT MOVEMENT**

00: -

A construction machine includes a system and method for performing a lockout or stand down of the machine to prohibit movement of the machine or one or more components of the machine, without shutting down the machine. Information about the status of the machine or a component thereof can be collected and relayed to an electronic control module (ECM) to determine whether to lockout the construction machine. If appropriate, the ECM can command lockout to an electrical component of the machine or component to prohibit movement of the machine or component until the lockout is released.



21: 2020/03942. 22: 6/29/2020. 43: 5/5/2021

51: C22F C22C B33Y B22F

71: MONASH UNIVERSITY

72: ROMETSCH, Paul, WU, Xinhua, JIA, Qingbo

33: AU 31: 2017904867 32: 2017-12-04

#### **54: HIGH STRENGTH ALUMINIUM ALLOY FOR RAPID SOLIDIFICATION MANUFACTURING PROCESSES**

00: -

An aluminium based alloy, and a method for production of components by additive manufacturing (AM) or other rapid solidification process with the alloy, is based on the alloy having a composition with from 2.01 wt% to 15.0 wt% manganese, from 0.3 wt% to 2.0 wt% scandium, with a balance apart from minor alloy elements and incidental impurities of aluminium.

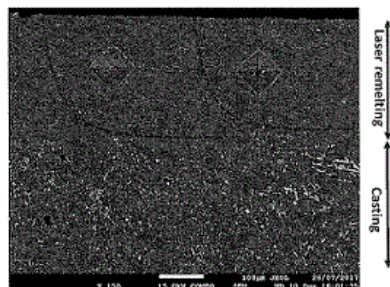


Fig.1: Hardness indentations in laser remelted Al-3Mn-1.5Mg-1Sc-0.05Zr alloy, before heat treatment, with melt pool tracks progressing in/out of the page as outlined with dashed curves.

21: 2020/03976. 22: 6/30/2020. 43: 5/5/2021

51: B23Q B25J

71: GIFT OF LIGHT FAMILY TRUST, IT 677/12

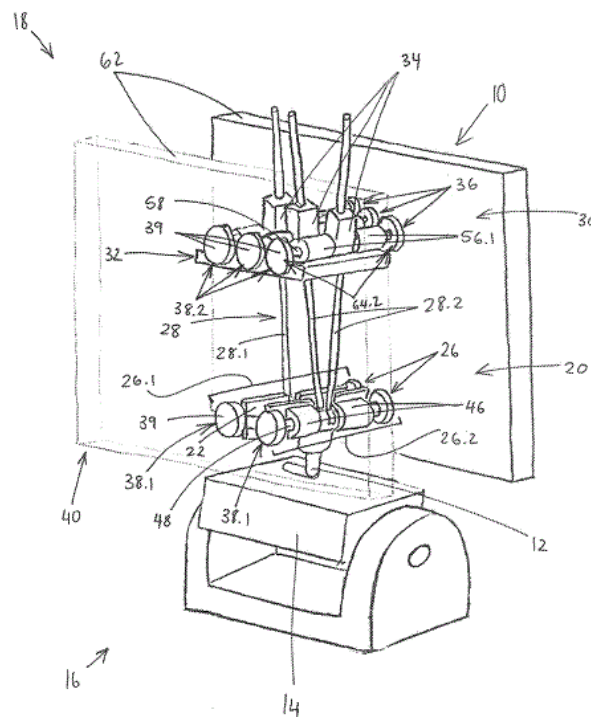
72: DU PLESSIS, Lukas, Johannes

33: US 31: 62/595,157 32: 2017-12-06

#### **54: A MANIPULATING DEVICE**

00: -

The manipulating device (10) includes a tool portion (20) which includes a support member in the form of an I-beam (22) for supporting a tool receiving member (24) and a plurality of connecting members (26) for allowing pivotal interconnection between the support member (22) and a plurality of elongate members (28), a tool manipulating portion (30) for manipulating the tool portion (20), the tool manipulating portion (30) including a support arrangement (32) for supporting a plurality of displacement members (34) for displacing the elongate members (28), a plurality of pivot members (36) for allowing pivotal displacement of the displacement members (34) relative the support arrangement (32) and a retaining means in the form of a plurality of actuators (38) for retaining the support arrangement (32) in position relative a support structure (40).



21: 2020/03981. 22: 6/30/2020. 43: 5/21/2021

51: C07D

71: Orion Corporation



72: LAITINEN, Ilpo, LESKINEN, Mikko, MÄKELÄ, Mikko

33: FI 31: 20176085 32: 2017-12-01

**54: PROCESS FOR THE PREPARATION OF 2-(5-METHOXYISCHROMAN-1-YL)-4,5-DIHYDRO-1H-IMIDAZOLE AND THE HYDROGENSULFATE SALT THEREOF**

00: -

The present disclosure relates to an improved process for the preparation of isochroman structured alpha2A adrenoceptor agonist, namely 2-(5-methoxyisochroman-1-yl)-4,5-dihydro-1H-imidazole of formula (I) and a pharmaceutically acceptable salts thereof, such as 2-(5-methoxyisochroman-1-yl)-4,5-dihydro-1H-imidazole hydrogensulfate of formula (Ia), and to a novel intermediate compound used in the process, namely N-(2-aminoethyl)-5-methoxyisochroman-1-carboxamide monohydrate of formula (V). Alpha2A agonists are useful in the treatment of anxiety, and for use as a sedative or analgesic agent, and other diseases where alpha2A agonism is desired.

21: 2020/03982. 22: 6/30/2020. 43: 5/5/2021

51: C12N

71: Amgen Inc.

72: OLLMANN, Michael, HOMANN, Oliver, RULIFSON, Ingrid, MURRAY, Justin K.

33: US 31: 62/597,841 32: 2017-12-12

**54: RNAI CONSTRUCTS FOR INHIBITING PNPLA3 EXPRESSION**

00: -

The present invention relates to RNAi constructs for reducing expression of the PNPLA3 gene. Methods of using such RNAi constructs to treat or prevent liver disease, nonalcoholic fatty liver disease (NAFLD) are also described.

21: 2020/04029. 22: 01/07/2020. 43: 6/28/2021

51: C08F

71: XINGYU SAFETY PROTECTION TECHNOLOGY CO., LTD.

72: ZHOU, Xingyu, ZHOU, Haitao, ZHOU, Hongbo, ZHAO, Yong

33: CN 31: 201910651423.2 32: 2019-07-18

**54: ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE FIBER WITH ULTRA-HIGH CUT RESISTANCE AND PREPARATION METHOD THEREOF**

00: -

The present invention relates to an ultra-high molecular weight polyethylene fiber with ultra-high cut resistance, including: an ultra-high molecular weight polyethylene matrix and carbon fiber powder particles dispersed therein. The content of the carbon fiber powder particles is 0.25-10 wt%. The present invention further relates to a method for preparing the ultra-high molecular weight polyethylene fiber with the ultra-high cut resistance

and a cut-resistant glove woven therefrom. The test proves that the glove woven from the ultra-high molecular weight polyethylene fiber with the ultra-high cut resistance is soft and comfortable, and does not have prickling sensation. According to the test of the Standard EN388-2003, the level of the cut-resistant grade ranges from 4 to 5. Compared with the application of other existing inorganic high-hardness reinforcing materials, the production process of the ultra-high molecular weight polyethylene fiber with the ultra-high cut resistance of the present invention has relatively less abrasion on the equipment. Moreover, the knitted cut-resistant gloves have higher durability and the cut-resistant performance is maintained longer than other gloves.

21: 2020/04030. 22: 01/07/2020. 43: 6/30/2021

51: G07F

71: TCS JOHN HUXLEY EUROPE LIMITED

72: SAUNDERS, Andrew Michael

33: GB 31: 1720534.5 32: 2017-12-08

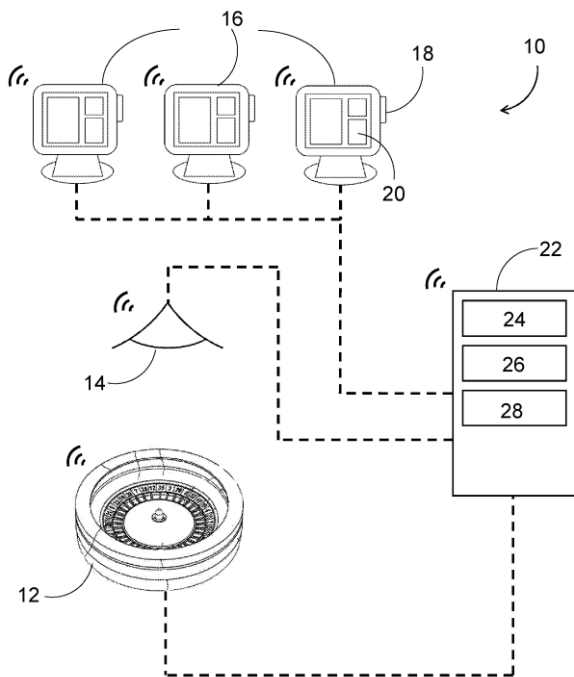
**54: PERSONAL PROGRESSIVE JACKPOT SYSTEM**

00: -

A personal progressive jackpot system is provided, with the aim of improving player satisfaction. The personal progressive jackpot system comprises, an input member arranged to accept identification information unique to a user, and wager information, the wager information having a wager value. The system further comprises a physical random number generator arranged to generate and output a random number during an operative period; a memory arranged to access and store the identification information, the wager information and the random number, the memory further comprising a personal progressive jackpot value associated with the identification information; a controller arranged to modify the personal progressive jackpot value; and a processor. The processor is arranged to carry out the steps of: link the identification information to a personal progressive jackpot value; calculate a personal progressive jackpot contribution from the wager value; wherein the controller is arranged to increment the personal progressive jackpot value by said personal progressive jackpot contribution; generate a win condition based on the random number; and compare the wager information with the win condition to determine one of: a first



outcome, wherein the wagering information satisfies the win condition, and following the first outcome, the controller is arranged to reduce the personalised progressive jackpot value; and a second outcome, wherein the wagering information does not satisfy the win condition; whereby the personal progressive jackpot system provides a personalised gaming experience. In providing a personal progressive jackpot, the present invention allows for a player to contribute solely to their own jackpot total if preferred and reduces the likelihood of player dissatisfaction, which is typically caused by another player winning a jackpot total to which many players contributed.



21: 2020/04038. 22: 7/2/2020. 43: 6/3/2021

51: G06F

71: UPSTREAM MOBILE COMMERCE LIMITED

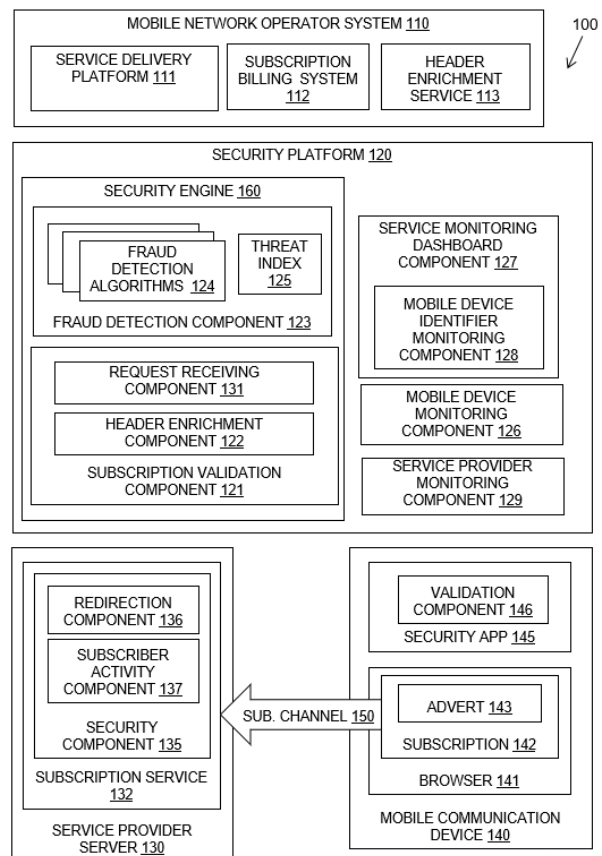
72: KRIEF, GUY STEPHANE, MANIATIS, DIMITRIOS

#### **54: FRAUD PROTECTION IN SUBSCRIPTION FLOWS FOR MOBILE APPLICATION SERVICES**

00: -

A computer-implemented method and a system are provided for fraud protection in subscription flows for mobile application services using direct billing of a subscriber account maintained by a mobile network operator (MNO). A security platform server receives a redirected subscription request for a direct carrier billing service, where the subscription request is

provided via a communication channel between a service provider server and a mobile communication device having a subscriber identifier. The security platform validates in real time the subscription request at the security platform including evaluating risk associated with the subscription request using the subscriber identifier of the request and by applying fraud detecting algorithms to the subscription request using gathered risk data. The security platform may confirm allowance of the subscription request by initiating the activation of the subscription at the MNO and allowing access to the mobile application service by the subscriber via the mobile communication device.



21: 2020/04044. 22: 02/07/2020. 43: 6/3/2021

51: E04B; E04C; E04H

71: ROCKWOOL INTERNATIONAL A/S

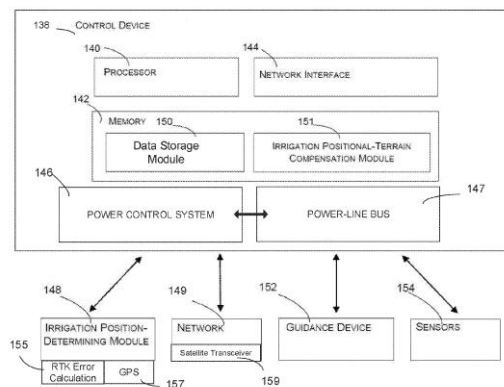
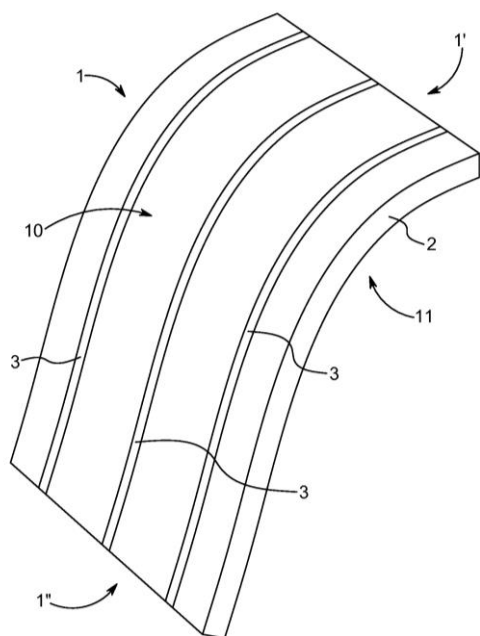
72: EMBORG, Michael

33: EP 31: 18152526.2 32: 2018-01-19

#### **54: A PANEL FOR A BUILDING STRUCTURE HAVING A PREDEFINED CURVATURE AND A METHOD OF MANUFACTURING SUCH PANEL**

00: -

The present invention concerns a panel for a building structure, the panel having a predefined curvature, said panel having a generally rectangular shape with a curvature, such that the panel has a convex outer surface and a concave inner surface with a set of side edge regions and a set of end edge regions, wherein the panel comprises at least one mineral wool fibre slab with a plurality of first strips adhered to the outer surface and a plurality of second strips adhered to the inner surface.



21: 2020/04098. 22: 7/6/2020. 43: 6/9/2021  
51: A63F

71: MAVUSO, Thembinkosi Hezekiel  
72: MAVUSO, Thembinkosi Hezekiel  
33: ZA 31: 2019/03642 32: 2019-06-07

#### **54: GAME BOARD**

00: -

A game board defines a playing surface with at least one transaction section and a topic section. The transaction section(s) includes: at least two unique transaction numbers; and a transaction amount associated with each transaction number. The topic section includes: at least two unique topic numbers; and a topic associated with each topic number. In respect of each like topic number and transaction number, the transaction amount and the topic are associated.

21: 2020/04078. 22: 03/07/2020. 43: 6/2/2021  
51: G01S

71: VALMONT INDUSTRIES, INC.

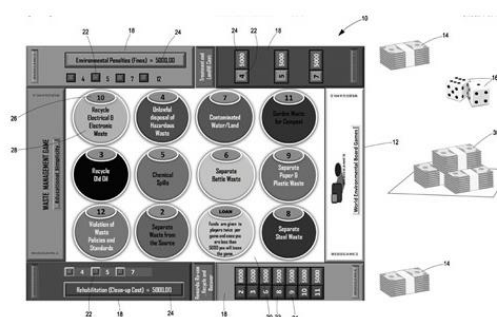
72: THATCHER, Tracy A.

33: US 31: 62/623,587 32: 2018-01-30

#### **54: SYSTEM AND METHOD FOR GPS ALIGNMENT USING REAL-TIME KINETICS**

00: -

The present invention provides a system for aligning drive towers within an irrigation system. According to a preferred embodiment, the present invention relates generally to a system and method for alignment control of irrigation spans and, more particularly, to a system and method for GPS alignment of irrigation spans using real-time kinetics sent via power line carrier.



21: 2020/04158. 22: 07/07/2020. 43: 6/2/2021  
51: A23B; A23L

71: WELDON-MING, Richard

72: WELDON-MING, Richard

33: ZA 31: 2017/05860 32: 2018-01-07

#### **54: FOOD DEHYDRATOR**

00: -

A food dehydrator with a heating element located beneath a fan in a chamber of the food dehydrator, wherein the heating element includes resistors, connected in series, sandwiched between and in thermal contact with two heatsinks to heat and dry the air within a volume defined by the chamber.

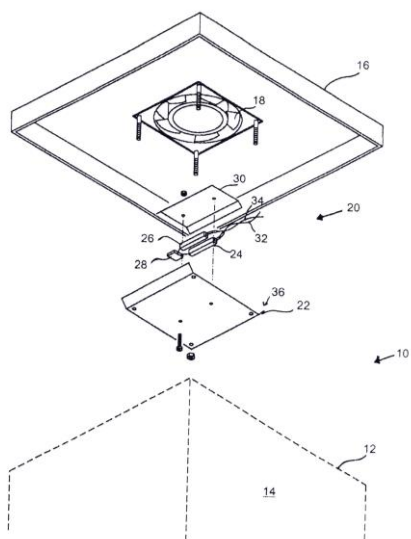


FIGURE 1

21: 2020/04165. 22: 7/8/2020. 43: 6/23/2021

51: C02F

71: Chinese Research Academy of Environmental Sciences

72: Liping WANG, Ruizhi LIU, Qingjia MENG, Zicheng LI, Xiangju MA, Huitao XU

#### **54: TREATMENT METHOD OF PHOSPHORUS-CONTAINING SEWAGE**

00: -

The invention provides an efficient sewage treatment method, which comprises pretreatment, biochemical treatment, precipitation treatment, precipitation dirt concentration treatment and concentrated sludge dehydration treatment. The method of the invention has better degradation capability, and the phosphorus removal rate can reach more than 98%. At the same time, it also has a good effect of removing nitrogen and ammonia, and has a good commercial value.

21: 2020/04179. 22: 08/07/2020. 43: 5/28/2021

51: B32B

71: KUSE, KOLJA, SAVARESE, STEPHEN

72: KUSA, KOLJA, SAVARESE, STEPHEN

33: DE 31: 2017006477.4 32: 2017-12-17

#### **54: REINFORCEMENT FOR CEMENT - AND STEEL-BASED STRUCTURES**

00: -

The invention relates to a new type of stabilization of concrete and cement-based materials and steel. The stabilization is accomplished by reinforcement by means of fiber-stabilized stone bars or stone slabs. The stone can be a natural stone or an artificial stone, the thermal expansion coefficient of which lies between that of the materials to be joined, i.e. between the coefficient of the fiber in question and the coefficient of the cement-based construction material in question, such as concrete or steel. The stone becomes a compensating connection element between fibers and concrete or steel, which have different thermal expansion behavior. This enables long-fiber-stabilized concrete structures in order to, among other things, replace CO<sub>2</sub>-intensive steel and make construction materials CO<sub>2</sub>-negative if the fiber bound carbon during production, which is the case with natural fibers and carbon fibers that are produced from CO<sub>2</sub>. The stone preferably has a nonlinear geometry and/or surface if the non-positive engagement between the stone and the concrete or cement should be optimized. In the case of the stabilization of steel, preferably slabs or strips of stone carbon are adhesively bonded to the steel. This can be accomplished preferably by means of epoxy resins. If the stabilizer in form of bars has a undulating shape, the elongation of the long fiber in the event of expansion is enabled, which considerably improves the coordination of the very different expansion coefficients of carbon fibers and concrete or steel.

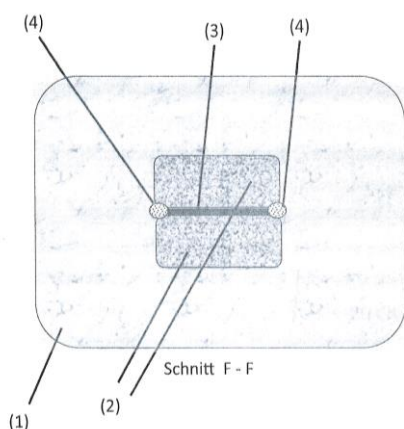
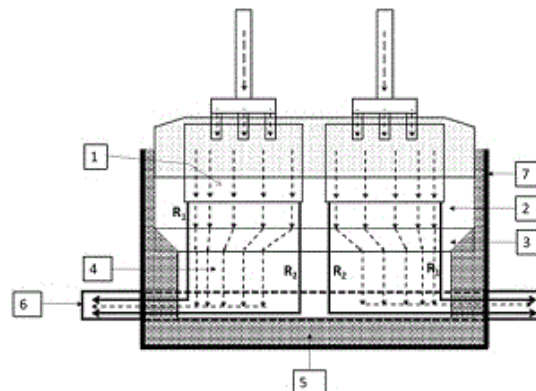


Abb. 2

AA Section F - F



21: 2020/04259. 22: 10/07/2020. 43: 5/28/2021

51: A61B; A61F

71: MIT ENTWICKLUNGS GMBH

72: PASZICSNYEK, Thomas

33: US 31: 15/880,955 32: 2018-01-26

**54: DYNAMIC LIGAMENT BALANCING SYSTEM WITH PIN POSITIONING BLOCK**

00: -

A surgical pin positioning block comprising a top portion comprising a pin position dial including one or more pin hole guides, the pin position dial setting angular pin positions of the one or more pin hole guides, wherein the one or more pin hole guides includes an orifice for drilling of pin holes, one or more dial position notches that secures the pin position dial in a given angular pin position, one or more sliding members coupled with one or more receptacles of a bottom portion, the bottom portion comprising the one or more receptacles, an adapter including one or more prongs that attach to a prosthetic inlay device, and a locking mechanism for securing the one or more sliding members in the one or more receptacles.

21: 2020/04199. 22: 7/9/2020. 43: 5/28/2021

51: C25C

71: ADITYA BIRLA SCIENCE AND TECHNOLOGY COMPANY PRIVATE LIMITED, HINDALCO INDUSTRIES LIMITED

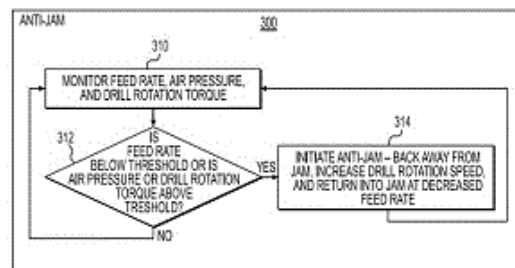
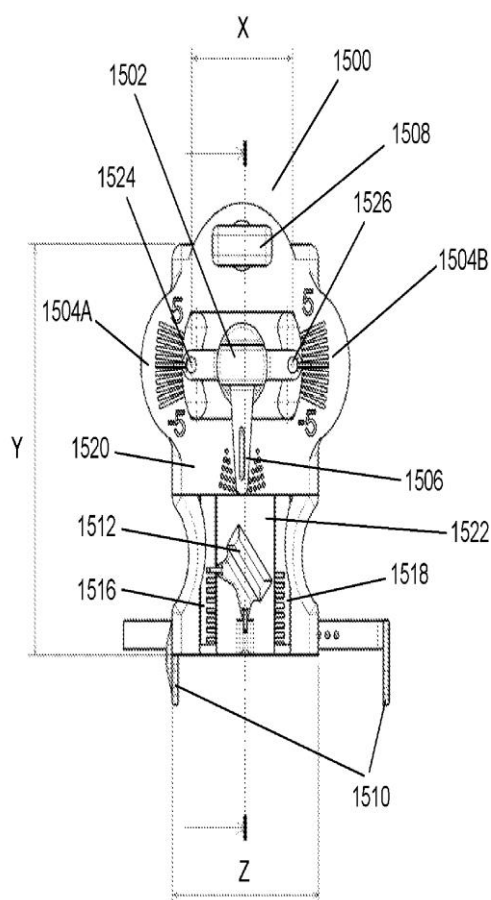
72: GUPTA, AMIT, JHA, AMIT

33: IN 31: 201921053599 32: 2019-12-24

**54: AN APPARATUS FOR ENHANCING PERFORMANCE OF AN ALUMINIUM REDUCTION CELL IN A SMELTING PROCESS**

00: -

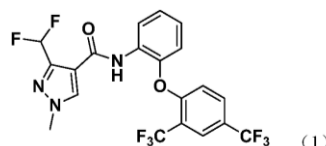
The present invention relates to an apparatus for enhancing performance of an aluminium reduction cell in a smelting process. It comprises a current collector bar and a metal insert placed inside the collector bar. The material of construction of the inserts is different from the material of construction of the collector bar(s). Moreover, thermal insulation strips placed along the bottom of the electrolytic cell such that heat is not able to escape from each end of the said cathode.



21: 2020/04311. 22: 14/07/2020. 43: 6/23/2021  
51: A01N; C07D; A01P

71: CENTRAL CHINA NORMAL UNIVERSITY  
72: YANG, Guangfu, LI, Hua, ZHU, Xiaolei  
33: CN 31: 201711349062.3 32: 2017-12-15  
**54: PYRAZOLE AMIDE COMPOUND AND APPLICATION THEREOF, AND FUNGICIDE**  
00: -

The present invention relates to the field of pesticides. Disclosed are a pyrazole amide compound and an application thereof, and a fungicide. The pyrazole amide compound has a structure as represented by the following formula (I). The pyrazole amide compound provided by the present invention has significant control effects on soybean rust, corn rust, wheat powdery mildew, cucumber powdery mildew, and rice sheath blight even at low concentrations.



21: 2020/04323. 22: 14/07/2020. 43: 6/30/2021  
51: C21C; C22B; C22C

71: MINTEK  
72: BISAKA, Kabwika, MAKWARELA, Moyahabo Olive, ERWEE, Markus Wouter, TSEBE, Sello Peter  
33: ZA 31: 2018/00379 32: 2018-01-19

**54: PRODUCTION OF HIGH CARBON FERROMANGANESE**

00: -

A process for the production of high carbon ferromanganese which includes; the step of smelting carbon-based manganese ore micro-pellets in a smelting furnace in a shallow burden configuration.

21: 2020/04276. 22: 7/13/2020. 43: 5/28/2021  
51: E21B  
71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC, CATERPILLAR GLOBAL MINING HMS GMBH  
72: MOBERG, CARL J, DIEKMANN, TIMO, HOULT, ROSS L, GIST, CARY, GUNDA, RAJESH R

33: US 31: 62/876,642 32: 2019-07-20

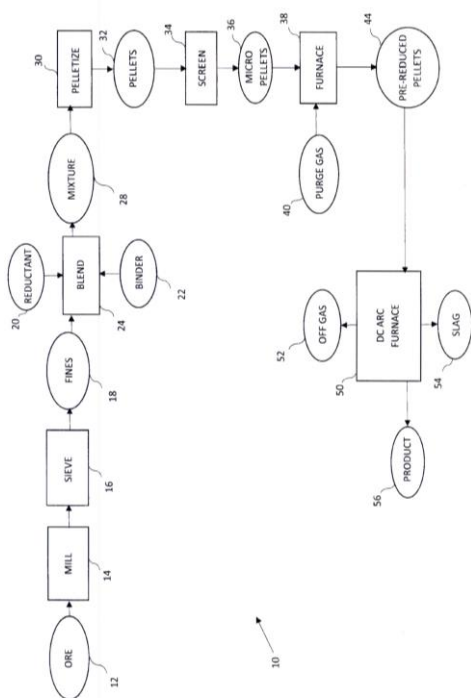
33: US 31: 16/923,256 32: 2020-07-08

**54: ANTI-JAM CONTROL SYSTEM FOR MOBILE DRILLING MACHINES**

00: -

An anti-jam control system for mobile drilling machines is disclosed. The anti-jam control system may include a method for automatically clearing a jam during an automatic drilling mode of a mobile drilling machine including a drill bit mounted on a drill string. The method may include: monitoring a feed rate of the drill bit during the automatic drilling mode; and automatically initiating an anti-jam operation when the feed rate is below a predetermined feed rate threshold.





21: 2020/04324. 22: 14/07/2020. 43: 6/30/2021

51: E21B; F42D; H04B

71: DETNET SOUTH AFRICA (PTY) LTD

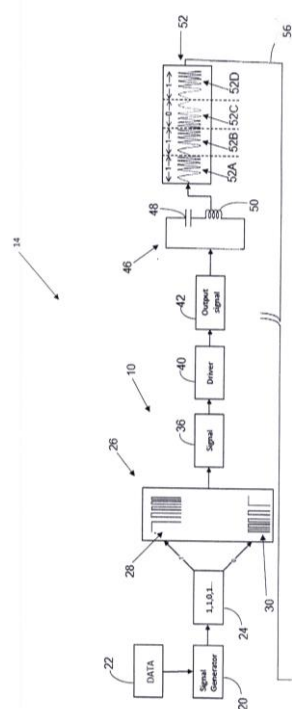
72: LOUW, Gerhard Brink

33: ZA 31: 2018/03286 32: 2018-05-17

**54: METHOD OF COMMUNICATING THROUGH THE EARTH USING A MAGNETIC FIELD**

00: -

A method of communicating through the earth which includes the steps of using a digital pulse train to generate a sweep pulse train which controls the frequency of a magnetic field at a first location, and at a second location, detecting the magnetic field and producing a signal at a frequency dependent on the frequency of the sweep pulse train, and extracting a replica of the digital pulse train from the signal.



21: 2020/04333. 22: 14/07/2020. 43: 6/30/2021

51: F24S

71: ECILIMP TERMOSOLAR, S.L.

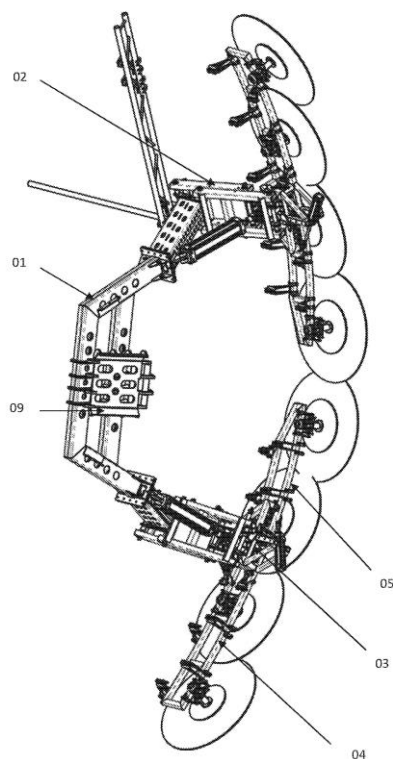
72: GARCIA PEREZ AINSUA, Javier Jesus, CABRAL HERRERA, Jose Ruben, REINA JAIME, Jose Enrique

33: ES 31: P201731466 32: 2017-12-26

**54: DEVICE FOR CLEANING CYLINDRICAL PARABOLIC SOLAR CONCENTRATOR PANELS**

00: -

The invention relates to a device for cleaning cylindrical parabolic solar concentrator panels, which includes a coupling that is capable of adjusting the inclination and rotation and an implement with a pivoting axis in order to be able to absorb to and fro movements of the truck as well as unevenness of the path over which the truck that carries the cleaning assembly travels, as well as an inner swivel flange for avoiding, by voluntary actuation or actuation by impact, any obstacles along an array of mirrors.



21: 2020/04338. 22: 7/15/2020. 43: 6/23/2021  
51: B65D; E04H

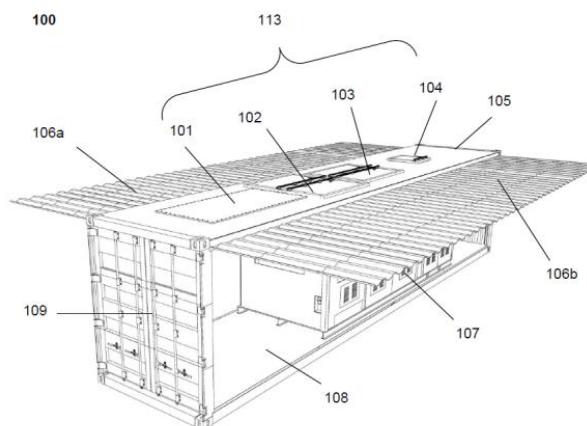
71: MILLENNIUM E & C (M) SDN. BHD.  
72: MUHAMMAD AMIRRUL BIN SHUKUR,  
HARRYS ANUAR BIN AHMAD

#### **54: ENCLOSURE FOR AN APPARATUS FOR SOLID WASTE MANAGEMENT**

00: -

The present invention provides an enclosure structure for housing an apparatus for solid waste management. The enclosure structure is in a form of a containerised unit (100) and a trailer or vehicle-mounted version (200). The enclosure structure comprises a front wall (109, 210) and a rear wall (105, 205) having at least one electrical outlet (110, 211) and utility outlet (111, 212), a first (106a, 208a) and second side door (106b, 208b) having a plurality of hydraulic cylinders (112, 213) that hydraulically power the side doors with within 30 seconds, a roof top access (113, 214) having four main opening lids for enabling operational access and maintenance, a base floor (108, 209) that serves as a platform for placing the apparatus for solid waste management and electrical control panels (600) for controlling operations of the enclosure structure. The enclosure structure is a rectangular shaped structure of at least

12 m in length, 2.35m in width and 2.7m in height and preferably made of mild steel, carbon steel, stainless steel, cast iron or fibreglass



21: 2020/04341. 22: 15/07/2020. 43: 6/23/2021  
51: A21C

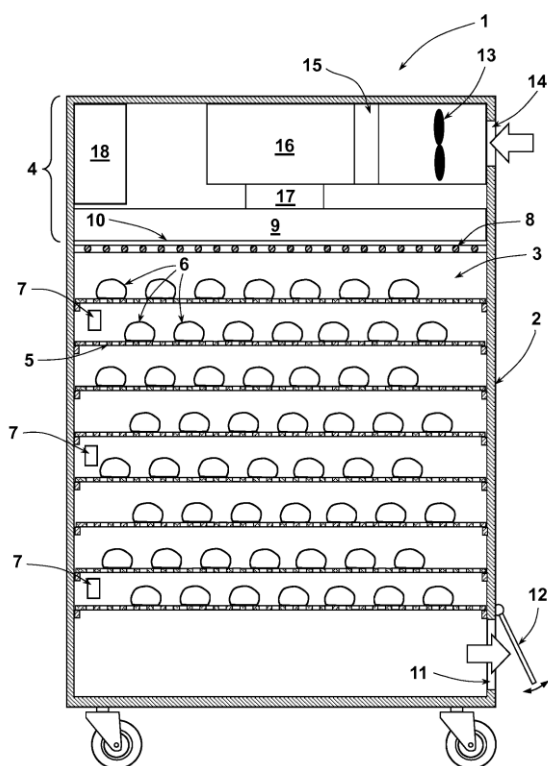
71: REICHENBACH, Albert, LÖSCHE, Klaus  
72: REICHENBACH, Albert, LÖSCHE, Klaus  
33: DE 31: 10 2018 101 068.0 32: 2018-01-18

#### **54: LEAVENING APPARATUS FOR LEAVENING DOUGH PIECES, AND METHOD, IN PARTICULAR FOR OPERATING SUCH A LEAVENING APPARATUS**

00: -

A leavening apparatus (1) for leavening dough pieces (6) comprises a leavening chamber (3) for receiving dough pieces (6) to be leavened and a climate control module for controlling the climate in the leavening chamber (3) for the leavening process. A control device (18) for controlling the leavening process according to the climate data detected in the leavening chamber (3) is paired with the climate control module (4). The climate control module (4) comprises a device (15) for creating an air stream and a device (15) for creating water aerosol to be entrained by the air stream. The leavening chamber (3) has an upper inlet (8) for the climate control media 'air' and 'moisture' provided by the climate control module (4), and a lower outlet (11), the opening width of which can be adjusted. During operation of the leavening apparatus (1) to leaven dough pieces (6), an air stream generated by the climate control module (4) is introduced via said inlet (8) into the leavening chamber (3), said air stream flowing out of the outlet (1) of the leavening chamber (3). The leavening chamber further has one each of

a temperature sensor, a moisture sensor and a CO<sub>2</sub> and/or O<sub>2</sub> sensor, said sensors (7) being configured to transmit the detected climate data to the control device. The invention further describes a method for conditioning the climate in the leavening chamber of a leavening apparatus of this kind.



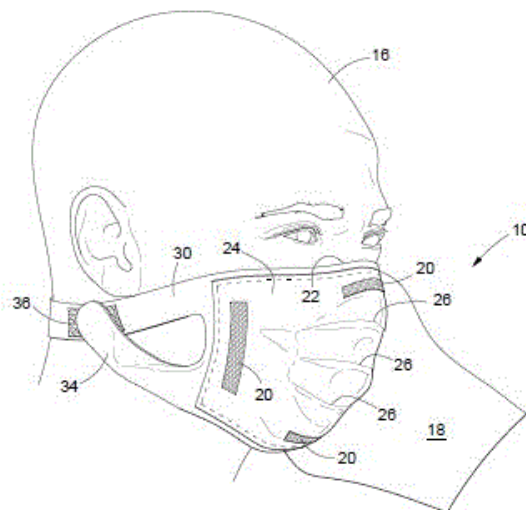
21: 2020/04364. 22: 7/16/2020. 43: 6/23/2021  
51: A41D

71: MADUNA, Thabo, Abraham, DUNAS  
ENTERPRISE (PTY) LTD  
72: MADUNA, Thabo, Abraham

#### **54: FACE MASK**

00: -

This invention relates to a face mask 10 for enhancing a user's person hygiene, comprising a flexible sheet arrangement 12 which is shaped and dimensioned to cover at least part of a user's head, securing means 14 for securing the sheet arrangement 12 against the user's head 16, and an auxiliary layer 18 that is removably attachable to the sheet arrangement 12 wherein the sheet arrangement 12 and auxiliary layer 18 adhere when pressed together and separate when pulled apart.



21: 2020/04371. 22: 16/07/2020. 43: 6/23/2021

51: G01N

71: THE FIRST INSTITUTE OF OCEANOGRAPHY,  
MNR

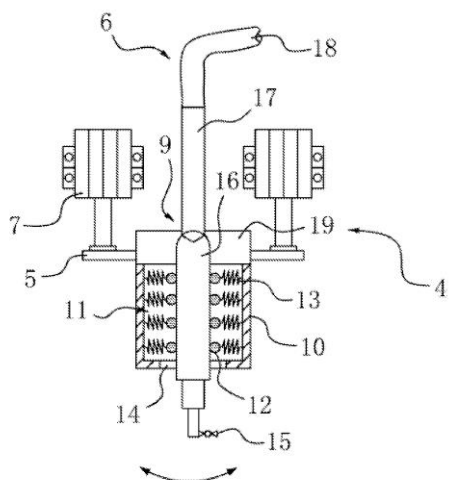
72: ZHANG, Haoran, ZHANG, Zhiping, LI, Yang

33: CN 31: 201810388675.6 32: 2018-04-13

#### **54: DEVICE FOR CONTINUOUSLY SAMPLING OCEAN SURFACE WATER**

00: -

Disclosed is a device (4) for continuously sampling ocean surface water (3). The device (4) understood a transverse beam (5) vertically liftable along a side (2) of a vessel, which is a sampling tube (6) for sampling the surface water (3) by sucking and a hydraulic cylinder (7) for driving the transverse beam (5) to rise and fall to make the sampling tube (6) reach the surface water (3) are fixed on the transverse beam (5); and the transverse beam (5) is provided with a buffer mechanism (8) for preventing damage to the sampling tube (6) due to continuous resistance generated by seawater when a hull (1) is traveling. The device can not only effectively ensure the accurate acquiring of the surface water (3), but also realize continuous collection during the voyage of a research vessel.



21: 2020/04399. 22: 7/17/2020. 43: 6/30/2021  
51: E04B

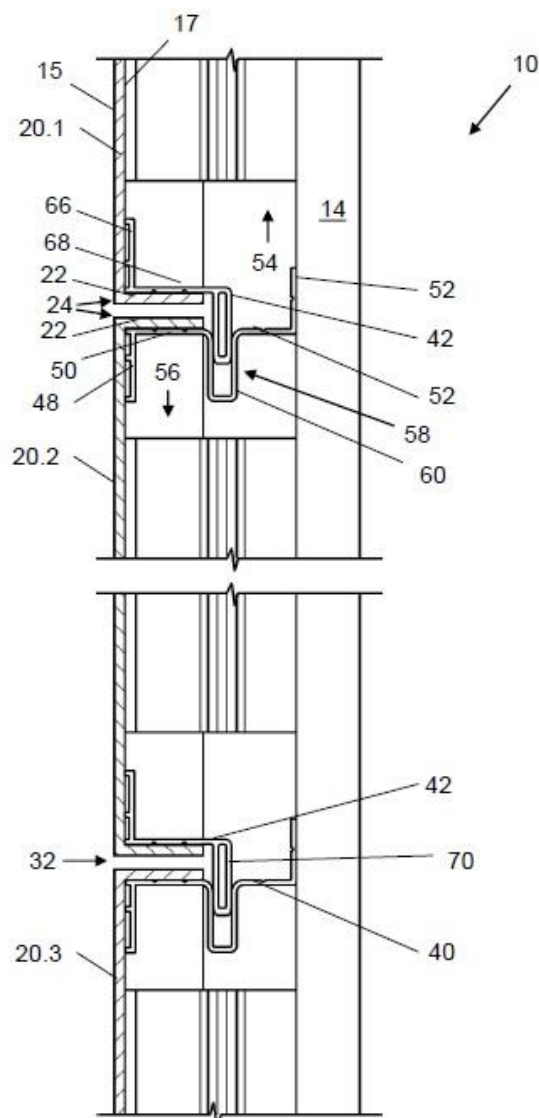
71: MILLIKEN INDUSTRIES S.A. (PTY) LTD

72: CONRADIE, Philippus Möller

#### **54: PANEL FIXING SYSTEM AND COMPONENTS THEREOF**

00: -

A panel fixing system (10) and components thereof are described, as well as a method of fixing panels (20) against a support surface (14). The panel fixing system (10) may include first and second fixing members (40, 42). The first fixing member (40) may attach to an edge portion (24) of a first panel (20.2) and the second fixing member (42) may attach to an edge portion (24) of a second panel (20.1). The first fixing member (40) may have a first side (44) which attaches to the first panel (20.2), a second side (46) which has a flange (52) that projects in a first direction (54) to form a foot for attachment to a support surface (14), and an intermediate zone (58) between the first and second sides (44, 46) which includes a groove (60) extending in a second direction (56) generally opposite to the first direction (54). The second fixing member (42) may include a first side (62) which attaches to the second panel (20.2), and a tongue (70) which cooperates with the groove (60) of the first fixing member (40) to interlock the first and second fixing members (40, 42) and thereby hold the first and second panels (20.2, 20.1) in alignment.



21: 2020/04409. 22: 17/07/2020. 43: 6/3/2021

51: A63F; G07D

71: TCS JOHN HUXLEY EUROPE LIMITED

72: SAUNDERS, Andrew Michael

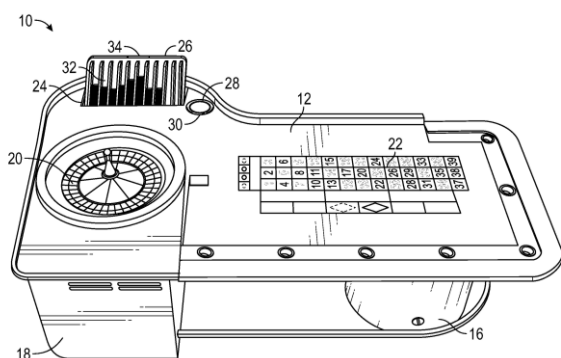
33: GB 31: 1801917.4 32: 2018-02-06

#### **54: TOKEN SORTING APPARATUS**

00: -

A token sorting apparatus is provided, the apparatus arranged to supplement a game using gaming tokens, the game having a plurality of stages, the sorting apparatus comprising: an entry aperture arranged to accept gaming tokens; a sorting mechanism arranged to sort gaming tokens according to a predetermined characteristic of the gaming tokens; a displacement member arranged to urge gaming tokens accepted by the entry aperture to the sorting mechanism; a camera arranged to

obtain an image of the sorting mechanism and the displacement member; a display member in digital communication with the camera, the display member arranged to display the image to a user; and a signalling member arranged to provide a signal to the user, the signal being arranged to indicate a stage of the game or a status of the game. The invention aims to provide a readily available prompt to a user of a token sorting apparatus in order to maintain awareness of stages of play of the game and to optimise user performance.



21: 2020/04449. 22: 7/20/2020. 43: 6/23/2021

51: H05B

71: Northwest A&F University

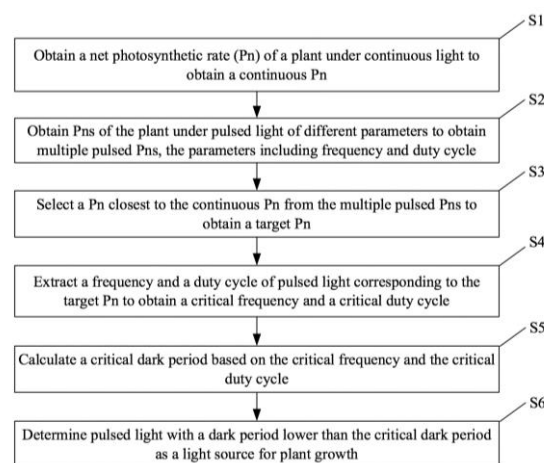
72: YANG, Zhenchao, MOU, Suntao, MEI, Yanhao, LIU, Qi, LI, Qi, YU, Huibin, BAI, Yahui, XU, Xiaodong, WU, Yongjun

33: CN 31: 202010504408.8 32: 2020-06-05

#### **54: METHOD AND SYSTEM FOR DETERMINING LIGHT SOURCE FOR PLANT GROWTH**

00: -

The present invention discloses a method and system for determining a light source for plant growth. The method includes; obtaining a net photosynthetic rate ( $P_n$ ) of a plant under continuous light and  $P_n$ s of the plant under pulsed light of different parameters, to obtain a continuous  $P_n$  and multiple pulsed  $P_n$ s, the parameters including frequency and duty cycle; selecting a  $P_n$  closest to the continuous  $P_n$  from the multiple pulsed  $P_n$ s to obtain a target  $P_n$ ; extracting a frequency and a duty cycle of pulsed light corresponding to the target  $P_n$  to obtain a critical frequency and a critical duty cycle; calculating a critical dark period based on the critical frequency and the critical duty cycle; and determining pulsed light with a dark period lower than the critical dark period as the light source for plant growth.



21: 2020/04456. 22: 20/07/2020. 43: 6/30/2021

51: D01F

71: CENTROTERM INTERNATIONAL AG

72: Andreas KELLER, Gunter FAUTH, Uwe ZIEGLER

33: DE 31: 10 2018 203 630.6 32: 2018-03-09

#### **54: METHOD AND DEVICE FOR STABILIZING PRECURSOR FIBERS FOR THE PRODUCTION OF CARBON FIBERS**

00: -

The invention relates to a method and to a device for stabilizing precursor fibers for the production of carbon fibers. In the method, precursor fibers are first heated to a first temperature and held at the temperature for a predefined duration.

Subsequently, the precursor fibers are heated to at least one second temperature, which is higher than the first temperature, and held at said temperature for a predefined duration. During each heating and between the heating steps, the precursor fibers are in a gas atmosphere having a negative pressure in the range between 12 mbar and 300 mbar and having an oxygen partial pressure of 2.5 to 63 mbar. The device has at least one evacuable, elongate vacuum chamber for feeding the precursor fibers through, at least two lock units and at least one heating unit. At least one lock unit is used for the sealed insertion of precursor fibers into the at least one vacuum chamber, while at least one other lock unit is used for the sealed removal of precursor fibers from the at least one vacuum chamber. The heating unit has at least two individually controllable heating elements, which are suitable for heating the at least one vacuum chamber to at least two different temperatures in heating zones which are adjacent in the longitudinal direction.



21: 2020/04458. 22: 20/07/2020. 43: 6/30/2021

51: F41A

71: NEXTER SYSTEMS

72: Steve BAERT

33: FR 31: 1800018 32: 2018-01-09

**54: DEVICE FOR DEFLECTING LINKS AND TURRET EQUIPPED WITH SUCH A DEFLECTOR DEVICE**

00: -

The invention relates to a device (8) for deflecting links intended to equip a turret equipped with a weapon with a dual-feed for ammunition belts formed by links. This device is characterised in that it comprises a deflector flap (9) that is intended to be disposed between two orifices for ejecting links out of the turret, which flap is intended to be connected to the weapon by a fixing means comprising a ball joint connection (12) disposed towards the front of the weapon, and a horizontal slide connection (13) disposed towards the rear of the weapon. The invention also relates to a turret equipped with such a deflector.

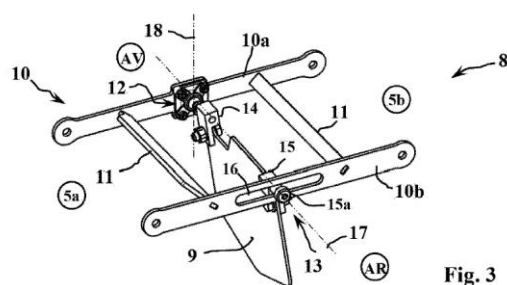


Fig. 3

21: 2020/04485. 22: 7/21/2020. 43: 6/28/2021

51: C08J; D06N; D21B; D21H; D21J

71: RIEGARD MARAIS BRITS

72: RIEGARD MARAIS BRITS

33: ZA 31: 2019/02703 32: 2019-04-30

**54: SHEET ARRANGEMENT**

00: -

The invention discloses a sheet arrangement, which includes a kelp sheet made from liquidised and/or granulated and/or milled kelp. The kelp is peeled to remove the black skin of the kelp and then be liquidised and/or granulated and/or milled. Tropical flakes and/or other fish food are mixed with the liquidised and/or granulated and/or milled kelp. The invention also discloses a method for preparing a sheet arrangement from kelp, which includes the steps of liquidising and/or granulated and/or milling

kelp; of drying the kelp; and of compressing the kelp to form a kelp sheet.

21: 2020/04486. 22: 7/21/2020. 43: 6/23/2021

51: C08J; D06N; D21B; D21H; D21J

71: RIEGARD MARAIS BRITS

72: RIEGARD MARAIS BRITS

33: ZA 31: 2019/02702 32: 2019-04-30

**54: SHEET ARRANGEMENT**

00: -

The invention discloses a sheet arrangement, which includes a kelp sheet made from kelp. The kelp is peeled to remove the black skin of the kelp and then be compressed to form the kelp sheet. The peeled kelp is treated with salt and/or charcoal and is compressed. The invention also discloses a method for preparing a sheet arrangement from kelp, which includes the steps of compressing and drying kelp to form a kelp sheet. The kelp is peeled to remove the black skin of the kelp and then be compressed to form the kelp sheet.

21: 2020/04487. 22: 7/21/2020. 43: 6/23/2021

51: A61B

71: Anhui University of Science and Technology, Hefei Broshare Technology Co., Ltd

72: Mengran Zhou, Xianjun Yang, Feng Hu, Yanyan Chen, Kai Bian, Pengcheng Yan

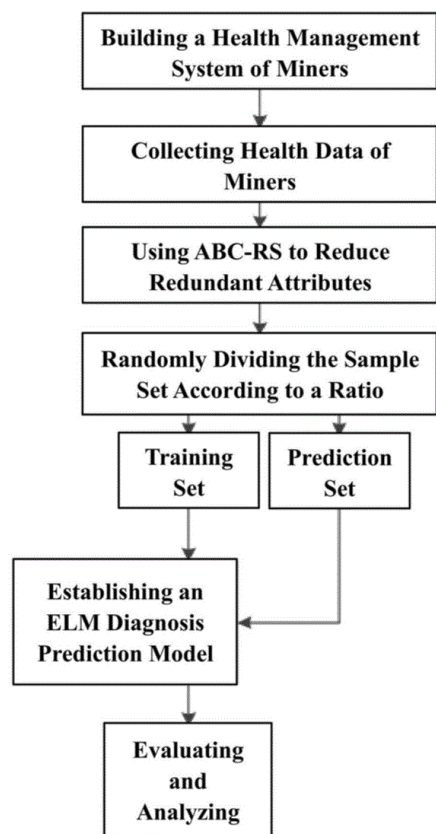
33: CN 31: 202010436457.2 32: 2020-05-21

**54: HEALTH EVALUATION METHOD AND SYSTEM OF MINERS**

00: -

The invention discloses a health evaluation method and system of miners, relating to the technical field of human health management: 1. building a health management system of miners; 2. collecting physiological parameter data of miners with different health conditions; 3. using ABC-RS algorithm to perform attribute reduction on the original health data of miners; 4. randomly dividing the health data samples of miners after attribute reduction into a training set and a prediction set according to a certain ratio; 5. establishing a prediction model for ELM health diagnosis with the training set, and using the prediction set to verify the prediction effect of the early category of occupational diseases. The invention combines ABC-RS algorithm and ELM algorithm for processing and predicting evaluation of physiological index data of miners; ABC-RS is used to screen out useful attributes in the health data of

miners, and an ELM health diagnosis prediction model is established with a randomly divided training set, and the prediction set is used to verify the classification effect; finally, the evaluation of health status of miners is realized.



21: 2020/04488. 22: 7/21/2020. 43: 6/23/2021

51: A61B

71: Anhui University of Science and Technology, Hefei Broshare Technology Co., Ltd

72: Mengran Zhou, Zuchang Ma, Feng Hu, Yanyan Chen, Kai Bian, Pengcheng Yan

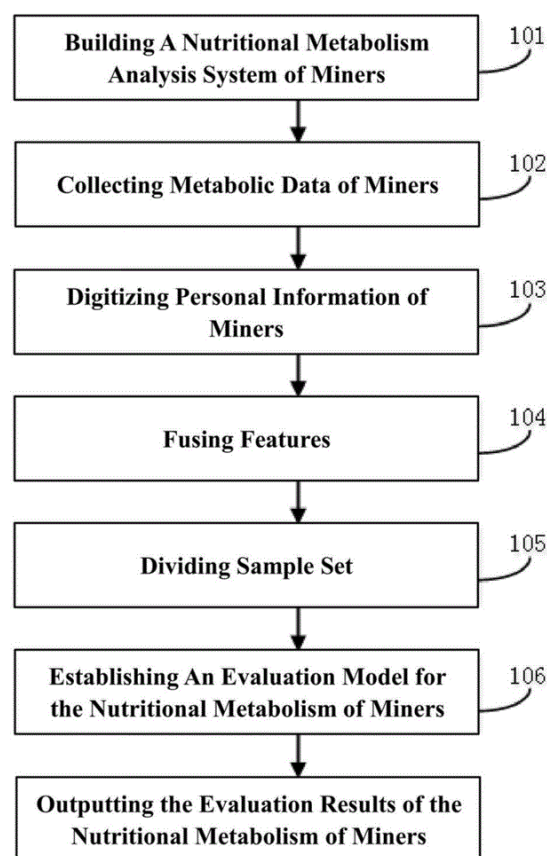
33: CN 31: 202010437480.3 32: 2020-05-21

#### **54: METHOD AND SYSTEM FOR EVALUATING NUTRITIONAL METABOLISM OF MINERS BASED ON RANDOM FOREST AND WORD2VEC**

00: -

The invention provides a method for evaluating nutritional metabolism of miners based on random forest and word2vec, which comprehensively considers the individual differences of miners when analyzing the nutritional metabolism of miners. At the same time, word2vec is used to prepare word vectors, and the RF regression analysis method is used to improve the accuracy and reliability of

metabolic evaluation of miners; accurate and reliable evaluation of metabolic conditions helps to accurately and timely grasp the health status of miners. The invention evaluates the nutritional metabolism detection for a special group of miners, to achieve accurate and real-time measurement and analysis of the health status of miners, complete the early warning of some occupational diseases and protect the life and health of miners.



21: 2020/04496. 22: 21/07/2020. 43: 6/30/2021

51: B04B

71: GEKKO SYSTEMS PTY LTD

72: LEWIS-GRAY, Alexander Hamilton

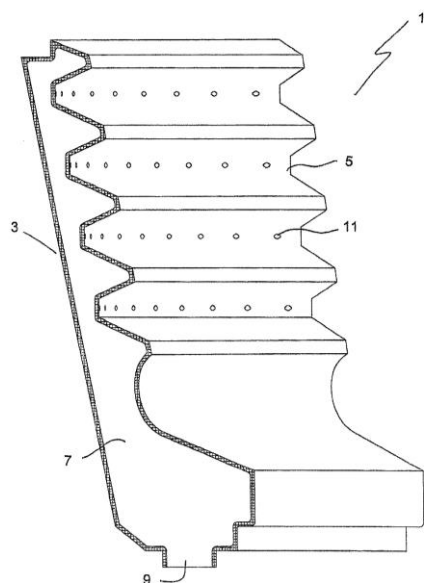
33: AU 31: 2018900238 32: 2018-01-25

#### **54: A BOWL FOR A BATCH CENTRIFUGAL CONCENTRATOR**

00: -

The present invention is a segmented bowl for a batch centrifugal concentrator constructed from a plurality of segments that are each placed adjacently to one another, so that each segment is in intimate contact with its neighbouring segments, so that

when a sufficient number of segments are put into place, they form the bowl of the batch centrifugal concentrator.



21: 2020/04498. 22: 21/07/2020. 43: 6/30/2021  
51: B60B

71: GV ENGINEERING GMBH

72: TSIBERIDIS, Konstantin

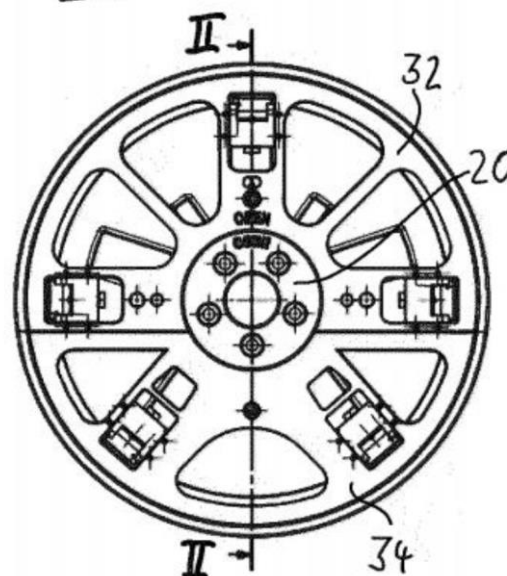
33: DE 31: 10 2018 101 355.8 32: 2018-01-22

**54: EMERGENCY WHEEL**

00: -

The invention relates to an attachment (14) for a vehicle wheel (1) for enabling a driving operation with restricted tyre functions and to a system comprising an attachment (14) and a rim (2) of a vehicle wheel (1).

Fig. 4 a



21: 2020/04521. 22: 7/22/2020. 43: 6/23/2021

51: G01N

71: Zhejiang Academy of Agricultural Sciences, Hangzhou Tianchumiyuan Health Products Co., Ltd.

72: Chaogeng Xiao, Cheng Guo, Weicheng Wu, Di Chen, Wenjing Lu, Qin Ye, Gangyao Chen, Rongfa Guan

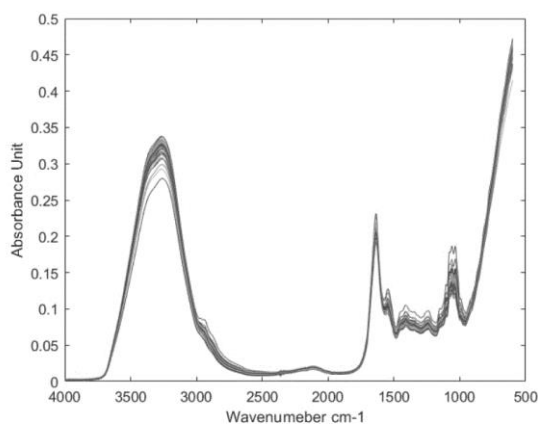
33: CN 31: 202010598677.5 32: 2020-06-28

**54: RAPID DETERMINATION OF WATER-SOLUBLE PROTEIN AND TOTAL SUGAR IN ROYAL JELLY METHOD**

00: -

The invention relates to the technical field of royal jelly quality detection, and particularly discloses a rapid determination method of water-soluble protein and total sugar of royal jelly, which comprises the (1) Selecting royal jelly samples; (2) The content of water-soluble protein in royal jelly samples was detected by Coomassie brilliant blue staining; The total sugar content of royal jelly samples was detected by potassium ferrocyanide method; (3) Scanning royal jelly samples by using a mid-infrared spectrometer; (4) Establishing a first quantitative analysis model and a second quantitative analysis model under full wavelength; (5) Selecting the most suitable pretreatment method relative to the water-soluble protein content and the most suitable pretreatment method relative to the total sugar content; (6) Screening characteristic wavelengths; (7) Establishing a first partial least squares model of

water-soluble protein content and a second partial least squares model of total sugar content; (8) The prediction model of water soluble protein content and total sugar content in royal jelly was established. The invention has the advantages of simple operation, time saving labor saving and higher analysis precision.



21: 2020/04546. 22: 1/31/2020. 43: 5/28/2021  
51: G01N

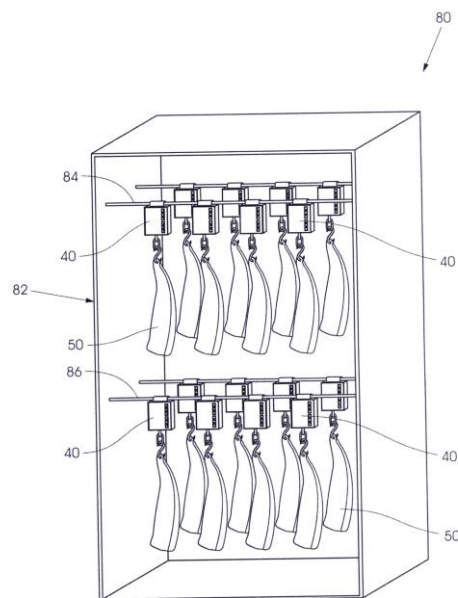
71: KNOETZE, Johan  
72: KNOETZE, Johan

33: ZA 31: 2019/00850 32: 2019-02-11

#### **54: INDICATION OF MOISTURE CONTENT OF MEAT**

00: -

A method of obtaining a dryness factor of a portion of meat which is subjected to a drying process which includes the steps of at a first time obtaining a first measurement of the weight of the meat portion, at a second time which is after the first time obtaining a second measurement of the weight of the meat portion and using the first and second weight measurements to provide an indication of the dryness factor of the meat portion at the second time.



21: 2020/04556. 22: 7/23/2020. 43: 6/9/2021

51: G01R

71: NEMTEK HOLDINGS (PTY) LTD

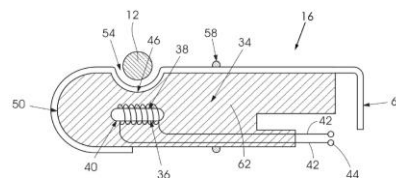
72: VAN DEN BERGH, Frits

33: ZA 31: 2020/00100 32: 2020-01-08

#### **54: ELECTRIC FENCE TEST INSTRUMENT**

00: -

A test instrument for use with an electric fence wire, the test instrument including a support made from an electrical insulation material, an electrical conductor on the support, which includes a location formation configured to make direct electrical contact with a fence wire, and a sensor inside or on the support which is responsive to an electrical current in the fence wire, wherein the support includes a cavity with the sensor located inside the cavity, and positioned substantially adjacent the location formation.



21: 2020/04614. 22: 7/27/2020. 43: 6/28/2021

51: H04L

71: QILU UNIVERSITY OF TECHNOLOGY,  
SHANDONG COMPUTER SCIENCE CENTER

(NATIONAL SUPERCOMPUTING CENTER IN JINAN)

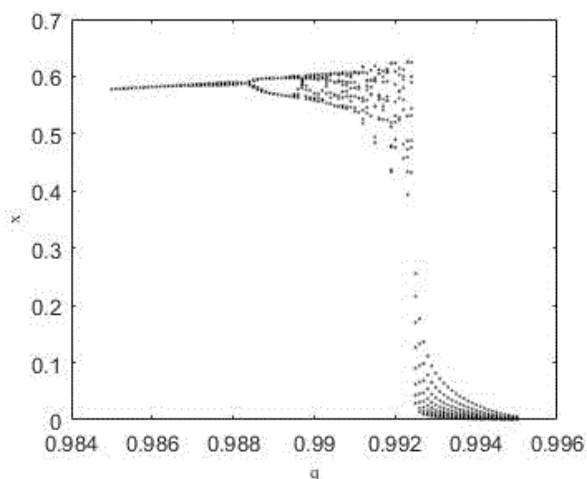
72: ZHANG, Fangfang, LIU, Jiaxun, SHU, Minglei, HUANG, Mingming, SUN, Kai, MA, Fengying

33: CN 31: 201910713712.0 32: 2019-08-02

**54: FRACTIONAL-ORDER CHAOTIC SYSTEM WITH HIDDEN ATTRACTORS AND LINEAR EQUILIBRIUM POINTS**

00: -

The present invention relates to a fractional-order chaotic system with hidden attractors and linear equilibrium points, which is a novel fractional-order chaotic system as well as a fractional-order chaotic system with hidden chaotic attractors, and designs a finite-time synchronization method and a combination synchronization method for the proposed chaotic system. The diversity of the fractional-order chaotic system with the hidden attractors is enriched. The finite-time synchronization of the fractional-order chaotic system with the hidden attractors is realized. The system provides a reference for the finite-time stability of other fractional-order chaotic systems. The combination synchronization method for the fractional-order chaotic system is proposed. Due to the natural advantages of combination synchronization in information transmission applications and the complexity of fractional-order systems, the combination synchronization of the proposed fractional-order chaotic system will have higher security in realizing secure communication than many other types of synchronization and integer-order chaotic systems.



21: 2020/04627. 22: 27/07/2020. 43: 5/25/2021

51: G01N

71: GOLDWAY TECHNOLOGY LIMITED

72: CHENG, Ka Wing, WONG, Kin Wing, CHAN, Kong, CHENG, Juan, TANG, Wing Chi, HUI, Koon Chung

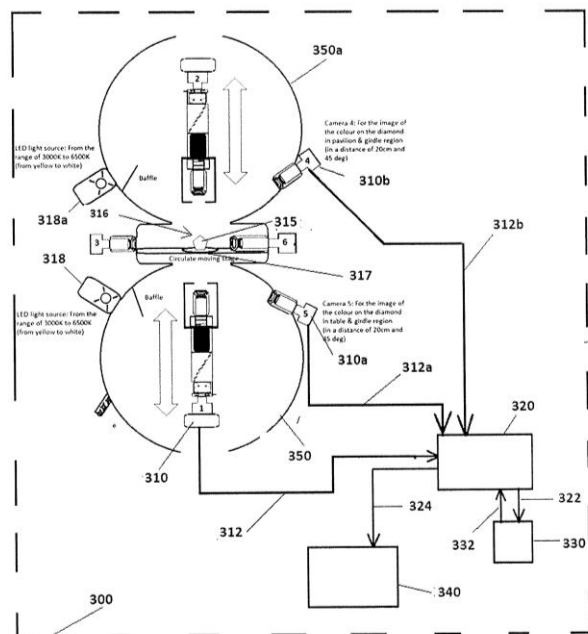
33: HK 31: 17113981.5 32: 2017-12-29

33: HK 31: 18101759.9 32: 2018-02-05

**54: COLOUR GRADING PROCESS AND SYSTEM FOR DIAMONDS**

00: -

A computerized system (300) for grading the colour of a diamond, the computerized system (300) including: an optical image acquisition device (310,310a,310b) for acquiring at least a first optical image of a diamond, wherein the first optical image is acquired at a predetermined angle of inclination to the central axis extending normal to the table and through the apex of the pavilion of the diamond and in a direction of towards the table and wherein the first optical image is acquired in an environment having a predetermined constant light level; a processor module (320) for comparing data derived from acquisition of the at least a first optical image with a plurality of data sets each of which corresponds to a diamond of a plurality of diamonds, and an output module, for responsive to a predetermined threshold of correlation between the data derived from input of the first optical image and one of the plurality of data sets, providing an output signal indicative of the colour grade of the diamond.

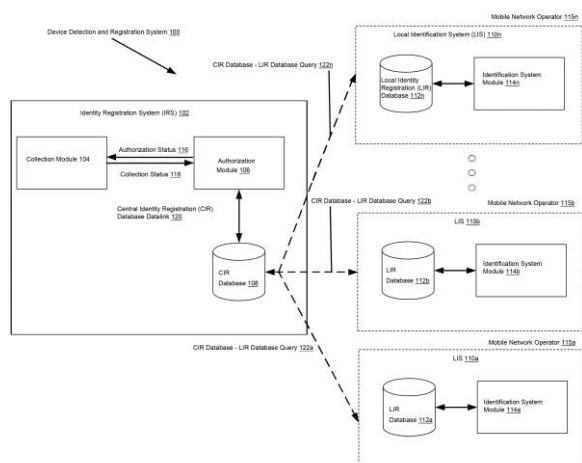




71: Charbel Fawaz El Litani  
72: Charbel Fawaz El Litani

## 54: SYSTEMS AND METHODS FOR DEVICE DETECTION AND REGISTRATION

The system and methods described herein can detect and register devices. One or more processors receive a device identifier of a first device. The device identifier of the first device is authorized responsive to performing a lookup in a first set of databases using the device identifier. The processors receive a record of an event corresponding to the device identifier, the record including the device identifier, a first value associated with the device identifier, and a first event identifier identifying the event. The processors store a first entry identifying the device identifier, the first value, the first event identifier, a specification of the first device, and a first status indicating the first device is authorized. The processors assign the device identifier of the first device to a first group of the plurality of groups. The processors provide data corresponding to the first device and the first status.

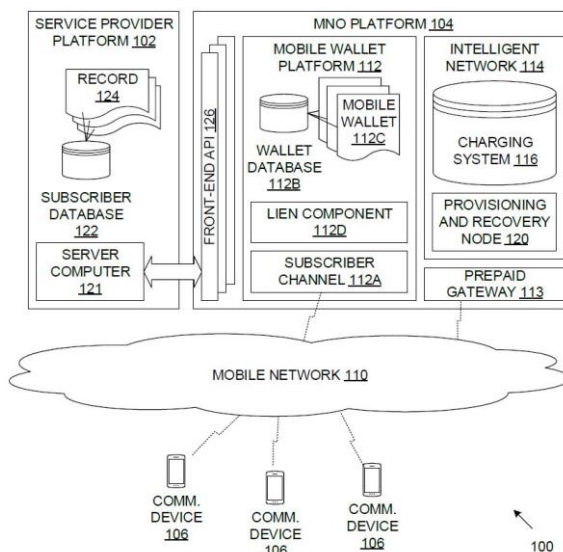


71: CHANNEL TECHNOLOGIES FZE  
72: CHATZISTAMATIOU, Antonios

54: NETWORK USAGE PRODUCT

00: -

A system and method for network usage product provisioning via a mobile wallet platform is described. In a method, data elements generated based on credit data that is associated with a subscriber identifier which uniquely identifies a mobile subscriber is obtained. A network usage offer based on or including the data elements may be transmitted to a communication device associated with the subscriber identifier via a subscriber channel of a mobile wallet platform in which the subscriber identifier is associated with a mobile wallet. Acceptance of the network usage offer may be received from the communication device by means of the subscriber channel. The acceptance received from the communication device may be associated with a selected network usage product. An instruction transmitted to cause the network usage product to be provisioned to an account which is maintained by an intelligent network and associated with the subscriber identifier.

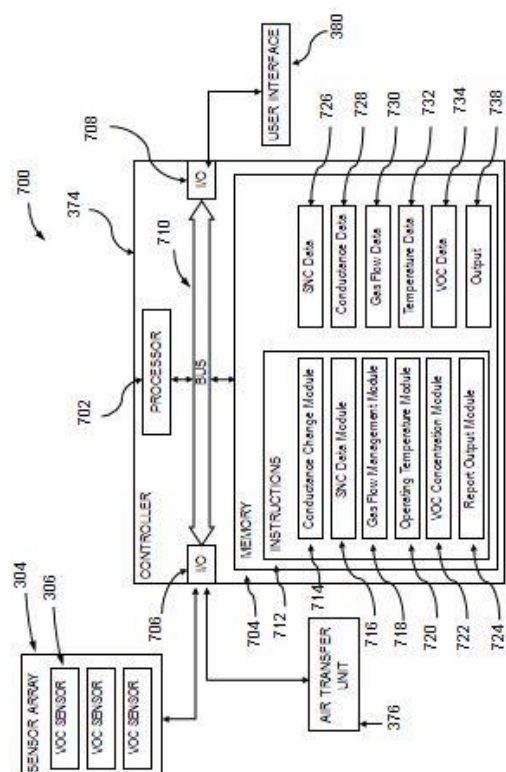


71: Sensor Development Corporation

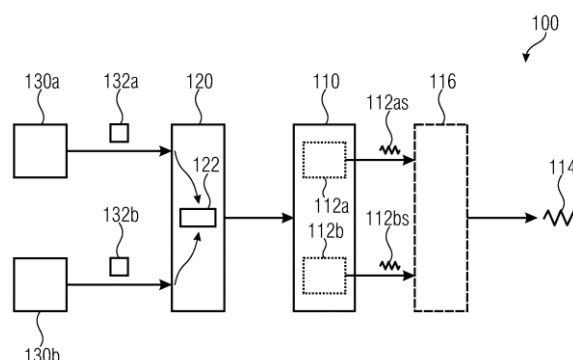
## 54: DEVICE FOR DETECTING INSECT LARVAE AND ADULT INSECTS IN STORED PRODUCTS BY SENSING THEIR VOLATILE PHEROMONES AND SEMIOCHEMICALS

Minimal-cost, high-accuracy, and portable devices used to detect the presence of insect larvae and

adult insects in stored products by sensing gas phase markers such as volatile pheromones, semiochemicals, and kairomones. The methods, devices, and systems disclosed herein utilize a sensor array configured to simultaneously measure a plurality of target markers and filter background gases while remaining compact, highly accurate, and easy to operate.



of the data packet which is generated by the first of the at least two data generators which are independent of one another, and a content of the data packet which is generated by the second of the at least two data generators which are independent of one another. The signal generator is designed to generate a high-frequency signal on the basis of the extracted contents.



21: 2020/04934. 22: 11/08/2020. 43: 6/25/2021  
 51: C07C; C07D; A61P  
 71: GENIFARM LABORATORIES INC, SOUTH CHINA UNIVERSITY OF TECHNOLOGY  
 72: ZHU, Shifa, CAO, Tongxiang, WANG, Yongdong, HUANG, Zhipeng  
 33: CN 31: 201810148042.8 32: 2018-02-12  
**54: MULTI-SUBSTITUTED BENZENE COMPOUND HAVING BIOLOGICAL ACTIVITY, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF**

00: -

Disclosed are a multi-substituted benzene compound having biological activity, a preparation method therefor, and an application thereof. The compound of the present invention has good biological activity and the activity of inhibiting tumor cell proliferation, and can be used as a lead compound for the research and development of novel drugs and for the preparation of anti-tumor drugs, such as drugs for the treatment of gastric cancer, ovarian cancer, lung cancer, or prostate cancer. The synthesis method of the present invention has wide availability of raw materials, ease of operation, short route, mild reaction conditions, low costs, and a potential value for industrialization.

21: 2020/05003. 22: 8/13/2020. 43: 6/10/2021  
 51: H01H  
 71: LÉVAI, Sándor

21: 2020/04783. 22: 31/07/2020. 43: 5/24/2021  
 51: G06F  
 71: INNOVATIONSZENTRUM FÜR TELEKOMMUNIKATIONSTECHNIK GMBH IZT  
 72: PERTHOLD, Rainer  
 33: DE 31: 10 2018 201 473.6 32: 2018-01-31  
**54: HIGH-FREQUENCY SIGNAL STIMULATOR SYSTEM**

00: -

A high-frequency signal stimulator system comprises at least two data generators which are independent of one another, a signal processing means and a signal generator. The at least two data generators which are independent of one another are each designed to generate at least one data packet which describes a high-frequency signal to be generated. The signal processing is designed to extract a signal

72: LÉVAI, Sándor

33: HU 31: P1900290 32: 2019-08-14

**54: METHOD FOR REDUCING THE AMOUNT OF AMBIENT RADIO FREQUENCY ELECTROMAGNETIC AND PULSATING MAGNETIC FIELDS, METHOD FOR DRYING WET WALLS, AND USING THE DEVICE FOR DRYING WET WALLS**

00: -

In a method for reducing the amount of ambient radio frequency electromagnetic and pulsating magnetic fields ("electrosmog"), resonance circuit units (2, 3) placed in a predetermined environment are energized by the radio frequency electromagnetic and pulsating magnetic field energy transmitted to the resonance circuits (2, 3) by an electromagnetically connected antenna (4), at least a portion of the energy is consumed as a resonance circuit loss, thereby reducing the amount of ambient radio frequency electromagnetic and pulsating magnetic fields. An apparatus implementing the method comprises passive resonance circuits formed by an antenna (4) comprising logarithmic spiral (2c, 2d, 3c, 3d, 4b) coils with identical or different pitches and passive resonance circuits formed by opposite logarithmic spiral coils (2c, 2d, 3c, 3d). (2, 3) panel, the resonance circuits (2, 3) are connected to each other and to the antenna (4) by electrically conductive spacers (6), a shielding metal plate (5) connected to ground potential is arranged adjacent to the antenna (4), latter is coaxial with the resonance circuit (2, 3) panels, which are also connected to each other via a supply line (9).

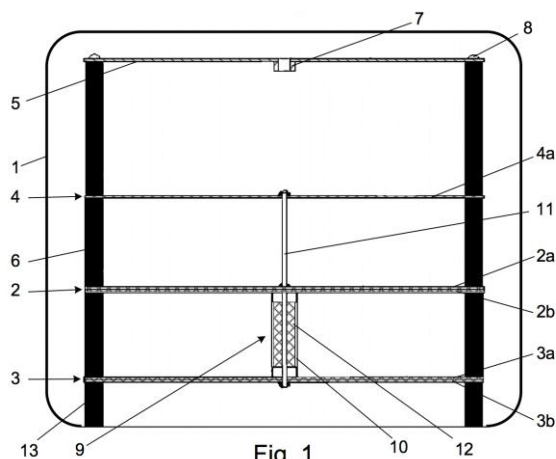


Fig. 1

71: NANTONG VOCATIONAL UNIVERSITY

72: ZHANG, Tianhao, CHEN, Pengqi, CAI, Xiao, YANG, Wen, LU, Yan, ZHANG, Xiaodong, XIA, Shengli

33: CN 31: 201821226542.0 32: 2018-08-01

**54: REMOTE CONTROL FEEDING DEVICE OF CHIRAL NANOFILTRATION MEMBRANE FORMING MACHINE**

00: -

A remote control feeding device of a chiral nanofiltration membrane forming machine, comprising a square supporting base (1), wherein the upper central position of the square supporting base (1) is fixedly mounted with a stirring barrel (3); moreover, the upper part of the square supporting base (1) is provided with three groups of feeding units (2) located at the periphery of the stirring barrel (3); the top of the stirring barrel (3) is fixedly mounted with a stirring motor (8); the rotating shaft of the stirring motor (8) is fixedly connected with the upper end of a stirring shaft (27) by means of a coupling (26); the stirring shaft (27) is provided inside the stirring barrel (3); the interior of the square supporting base (1) is further mounted with a PLC controller (18) and a 4G router (19); it may be realized to remotely control to add raw materials having different component rates for producing a chiral nanofiltration membrane to the stirring barrel (3); one side of the outside of the square supporting base (1) is further provided with a touch screen (17); the touch screen (17) is bi-directionally electrically connected with the PLC controller (18) by means of a data cable; the PLC controller (18) is in a signal connection with the 4G router (19) by means of a network cable. The feeding device may realize that a technician performs remote working, thereby avoiding affecting production, may fully mix the raw materials having different component rates pumped into the stirring barrel (3) so as to ensure the production quality of the chiral nanofiltration membrane,

21: 2020/05008. 22: 13/08/2020. 43: 6/24/2021

51: B01D; B01F

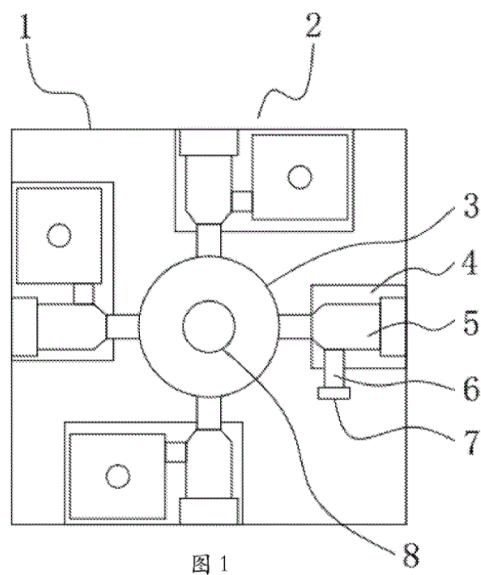


图 1

21: 2020/05009. 22: 13/08/2020. 43: 6/24/2021  
 51: G06F  
 71: NANTONG VOCATIONAL UNIVERSITY  
 72: ZHANG, Tianhao, CAI, Xiao, DU, Kui, CHEN, Pengqi, SUN, Wei, YANG, Wen, LU, Yan, ZHANG, Xiaodong, XIA, Shengli

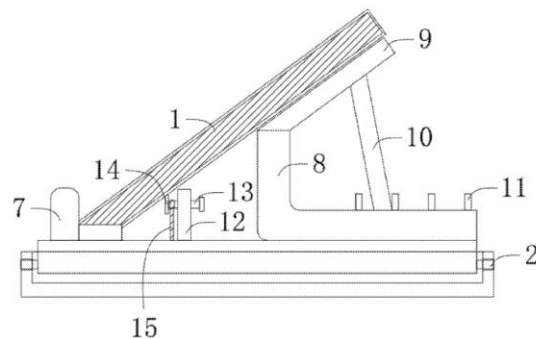
33: CN 31: 201821227389.3 32: 2018-08-01

#### **54: BLOCKCHAIN-BASED STUDENT MANAGEMENT TERMINAL APPARATUS**

00: -

Disclosed is a blockchain-based student management terminal apparatus. The apparatus included a touch display main body and a base. The base understood a circular groove and a rotatable circular disk in transmission connection with the circular groove via weight bearing rollers. An outer edge of the rotatable circular disk is symmetrically provided with two reset buttons. Circular insertion holes matching the reset buttons are circumferentially arranged on the circular groove at an equal interval. The touch display main body is hinged to the rotatable circular disk via a hinge member. A rectangular barrier plate is fixedly disposed at a front side of the touch display main body and on the rotatable circular disk. An L-shaped support plate is disposed at a rear side of the touch display main body and at a top portion of the rotatable circular disk. A front end of the L-shaped support plate is hinged to a backing plate via a hinge member. The L-shaped support plate is

symmetrically provided with two sets of position-limiting devices to the left and right on an end away from the backing plate. The present utility model facilitates adjustment of a tilting angle and a rotating angle of a display, thereby providing a wide range of applications.



21: 2020/05035. 22: 8/14/2020. 43: 6/10/2021  
 51: A61F; A61M

71: Patrick McKeown

72: Patrick McKeown

33: US 31: 16542363 32: 2019-08-16

#### **54: NASAL BREATHING TRAINING TAPE AND METHOD**

00: -

Disclosed is a nasal breathing training tape adapted to impart training to a user to breathe from the nose, and not from the mouth, during sleep time or wakefulness time. The nasal breathing training tape includes a stretchable strip, an adhesive layer, and a cutout portion. The stretchable strip includes a first surface, and a second surface opposite to the first surface. The stretchable strip is stretchable to create tension therein. The adhesive layer may be applied to the second surface of the stretchable strip. The cutout portion is configured on the stretchable strip along a substantially central location of the stretchable strip. The stretchable strip is stretched to a size to be accommodated and stick around a upper and lower lips, surrounding the mouth but not touching the upper and lower lips, of the user, such that the upper and lower lips are held together by the tension created in the stretchable strip.

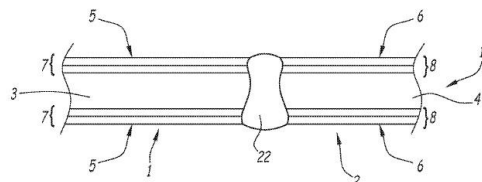
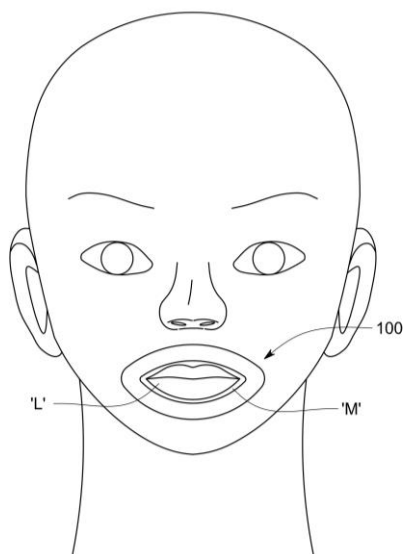


Fig.2

$$T_{\text{min}}(^{\circ}\text{C}) = AC3(WJ) - \frac{\alpha_{K'}^{\text{max}}}{100} (Ac3(WJ) - 673 - 40 \times Al) \quad (I)$$

$$\alpha_{K'}^{\text{max}} = (1 - \frac{(1 + \rho)(\max(1; \rho)Ts_2 - 350)}{(1 - \beta)(\rho Ts_2 + Ts_1) + \beta(1 + \rho)(3130C^{\text{FW}} + 750) - 350 \times (1 + \rho)}) \times 100, \quad (II)$$

21: 2020/05048. 22: 14/08/2020. 43: 6/25/2021  
 51: B23K; C21D  
 71: ARCELORMITTAL  
 72: Francis SCHMIT, Maria POIRIER, Sadok GAIED  
 33: IB 31: PCT/IB2018/051237 32: 2018-02-27  
**54: METHOD FOR PRODUCING A PRESS-HARDENED LASER WELDED STEEL PART AND PRESSHARDENED LASER WELDED STEEL PART**

00: -

Method for producing a part comprising: providing a first and a second precoated sheet (1,2), butt welding the first and second precoated sheets (1) to obtain a blank (15), heating the blank (15) to a heat treatment temperature at least 10°C lower than the full austenitization temperature of the weld joint (22) and at least 15°C higher than a minimum temperature Tmin: formula (I) where Ac3(WJ) is the full austenitization temperature of the weld joint (22) formula (II), where Ts1 and Ts2 are the ultimate tensile strengths of the strongest and the weakest substrate after press-hardening, CFW is the carbon content of the filler material, β is the proportion of filler material, ρ is the ratio between the thicknesses of the weakest and the strongest substrate, and holding the blank (15) at the heat treatment temperature for a time between 2 and 10 minutes; press-forming the blank (15) into a part and cooling. press-forming the blank (15) into a part and cooling.

21: 2020/05076. 22: 17/08/2020. 43: 6/24/2021

51: G01N

71: FRAMATOME GMBH

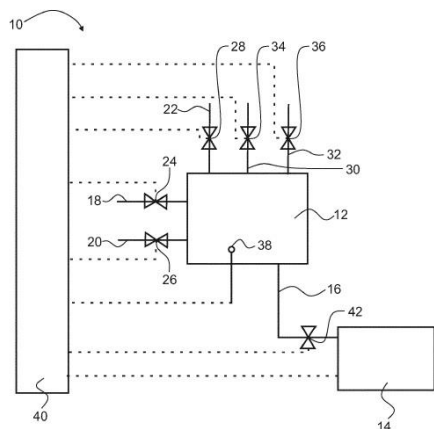
72: Ute RAMMINGER, Ulrich NICKEL, Jörg FANDRICH

**54: METHOD AND DEVICE FOR THE DETERMINATION OF FILM FORMING AMINES IN A LIQUID**

00: -

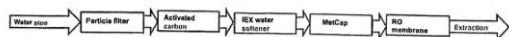
A photometric method for the determination of a film forming amine in a liquid, comprises the steps of a) providing a buffer solution of a weak acid having a pKa # 4.5 and a strong acid having a pKa # 1; b) diluting an aliquot of the buffer solution with a given volume of water, and determining a pH value of said diluted buffer solution; c) adding a given amount of a reagent to said diluted buffer solution and measuring an initial absorbance of said diluted buffer solution containing the reagent; d) preparing a sample solution by adding a given volume of the liquid containing the film forming amine to an aliquot of the buffer solution and measuring a pH value of the sample solution; e) adjusting the pH value of the sample solution to match with the pH value of the diluted buffer solution by adding a calculated amount of the strong acid; and f) adding a given amount of said reagent to the pH adjusted sample solution to form a colored complex, and measuring the absorbance of the pH adjusted sample solution containing the reagent and the colored complex in a photometer.





21: 2020/05119. 22: 18/08/2020. 43: 5/10/2021  
 51: B01J; C02F  
 71: INSTRUCTION GMBH  
 72: WELTER Martin, MEYER Christian, LUNGFIEL, Kristian  
 33: DE 31: 20 2018 100 396.8 32: 2018-01-24  
**54: DEVICE FOR PURIFYING DRINKING WATER**  
 00: -

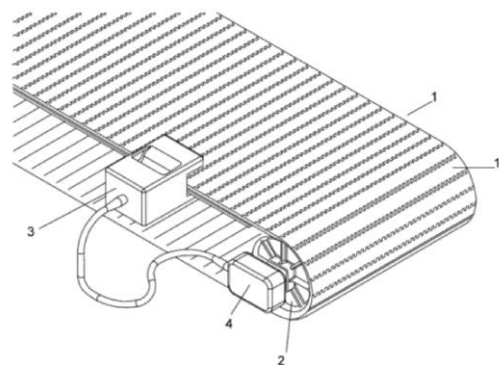
The present application relates to a device for the multi-stage, modular purification of drinking water, wherein a module comprises a chelating gel or a chelating and a bactericidal gel for heavy metal removal and/or for heavy metal removal and bacterial removal.



21: 2020/05162. 22: 19/08/2020. 43: 6/25/2021  
 51: B65G  
 71: AFHER EUROBELT, S.A.  
 72: SAN MIGUEL NUÑEZ, Javier  
 33: EP 31: 18382131.3 32: 2018-03-02  
**54: SYSTEM AND METHOD FOR MONITORING MODULAR CONVEYOR BELTS**  
 00: -

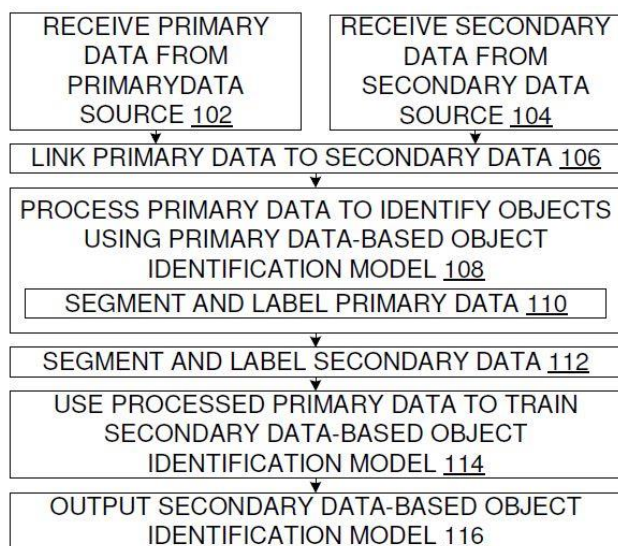
A system and method for monitoring modular conveyor belts (1) which comprises a plurality of modules (11, 11', 11'', 11''', 11'''') made from a plastic material and linked together to form a continuous path operated by a gear (2) which in turn comprises a shaft (21); wherein said system comprises at least two apparatus (3, 4), where at least a first sensor (43) is configured for detecting the passage of an indication (22) in the drive shaft (21); and where at least a second sensor (33) is configured for detecting the passage of a plurality of reference

elements (10, 10', 10'', 10''', 10'''') inserted in the longitudinal edges of the modules (11, 11', 11'', 11''', 11'''').



21: 2020/05164. 22: 19/08/2020. 43: 6/25/2021  
 51: G06K  
 71: UNIVERSITY OF CAPE TOWN  
 72: MISHRA, Amit Kumar  
 33: GB 31: 1803585.7 32: 2018-03-06  
**54: OBJECT IDENTIFICATION IN DATA RELATING TO SIGNALS THAT ARE NOT HUMAN PERCEPTIBLE**  
 00: -

Systems and methods for object identification are provided. In a method, primary data is received. The primary data is generated by a primary sensor that receives signals that are human perceptible and records a scene. Secondary data generated by a secondary sensor that simultaneously records the same scene is received. The secondary sensor receives signals that are not human perceptible. The primary data is processed to identify object signatures relating to objects present in the scene. The processed primary data is used to train a secondary data-based object identification model configured to identify, in the secondary data, object signatures relating to objects present in the scene. A method includes using the secondary data-based object identification model to process the secondary data to identify object signatures relating to objects present in the scene. A method includes augmenting the processed primary data with the processed secondary data.



21: 2020/05177. 22: 20/08/2020. 43: 6/25/2021  
51: C21D; C22C

71: ARCELORMITTAL

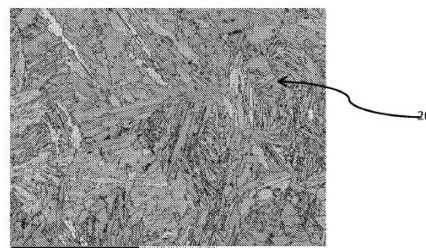
72: Victor BORDEREAU

33: IB 31: PCT/IB2018/051970 32: 2018-03-23

**54: FORGED PART OF BAINITIC STEEL AND A METHOD OF MANUFACTURING THEREOF**

00: -

A steel for forging mechanical parts comprising of the following elements, expressed in percentage by weight: 0.15% #C# 0.22%; 1.6% #Mn# 2.2%; 0.6% #Si# 1%; 1% #Cr# 1.5%; 0.01%#Ni# 1%; 0% #S# 0.06%; 0% #P# 0.02%; 0% #N# 0.013%; and having optional elements 0% #Al# 0.06%; 0.03% #Mo# 0.1%; 0% #Cu# 0.5%; 0.01% #Nb# 0.15%; 0.01% #Ti# 0.03%; 0% #V# 0.08%; 0.0015% #B# 0.004%; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel having microstructure by area percentage comprising of cumulative presence of residual austenite and martensite-austenite island between 1 % and 20%, the remaining microstructure being bainite having at least 80%, wherein the fraction of grain boundaries of bainite with a misorientation angle of 59.5° are at least 7% and with an optional presence of martensite between 0% and 10%.



21: 2020/05179. 22: 20/08/2020. 43: 6/25/2021

51: C07C

71: JIANGSU DINGYE PHARMACEUTICAL CO., LTD

72: DAI Changxi, ZHOU Yongguang

**54: METHOD FOR PREPARING PHLOROGLUCINOL**

00: -

A method for producing phloroglucinol, comprising: using 2,6-dichlorophenol as a reaction raw material; carrying out reaction in the presence of a copper salt catalyst and 1,2,4-trimethylbenzene solvent; performing three-gradient cooling on a reaction liquid, and adding hot water at first and second stages to perform layering separation; and decoloring by using an activated carbon adsorption column and removing a copper ion and a potassium ion by using a metal ion adsorbent. The method has advantages such as a high yield, high purity, and low concentration of a metal ion.

21: 2020/05245. 22: 24/08/2020. 43: 6/24/2021

51: A41D; A61P

71: QU, Xin

72: QU, Xin

**54: FABRIC HAVING FUNCTION OF PREVENTING AND TREATING HYPERTENSION**

00: -

A fabric that has the function of preventing and treating hypertension, which is impregnated with a traditional Chinese medicine impregnation solution for preventing and treating hypertension during the preparation process of the fabric. The traditional Chinese medicine impregnation solution is composed of Ligusticum wallichii, chrysanthemum, Radix aristolochiae, Radix clematidis, grass cassia, prunella vulgaris and angelica sinensis. The fabric is easy to make and has excellent effects in preventing hypertension.

21: 2020/05246. 22: 24/08/2020. 43: 6/23/2021

51: A41D; A61P

71: QU, Xin

72: QU, Xin

#### 54: FABRIC FOR PROTECTION AGAINST ARTHRITIS

00: -

A fabric for protection against arthritis, which is impregnated with traditional Chinese medicine impregnation solution for protection against arthritis in the process of preparing the fabric. The traditional Chinese medicine impregnation solution consists of roasted radix aconiti, ephedra herb, radix saposhnikoviae, radix angelicae pubescentis, fructus perillae, white mustard seed, rhizoma cimicifugae, and ramulus mori. The fabric is easy to make and has an excellent effect in protecting against arthritis.

21: 2020/05247. 22: 24/08/2020. 43: 6/24/2021

51: A61K; A61P

71: WANG, Qin

72: WANG, Qin

#### 54: FABRIC FOR PREVENTING AND TREATING COLD

00: -

A fabric for preventing and treating the cold; in a preparation process for the fabric, the fabric is infused with a traditional Chinese medicine infusion solution for preventing and treating the cold; the traditional Chinese medicine infusion solution is composed of Radix rehmanniae, Forsythia suspensa, Radix ophiopogonis, Rhizoma Dioscoreae, membrane of chicken gizzards, Rhizoma Wenyujin concisum, Radix Aucklandiae and tree peony bark. The described fabric easy to manufacture and has an excellent effect in preventing and treating the cold.

21: 2020/05248. 22: 24/08/2020. 43: 6/24/2021

51: A41D; A61K

71: WANG, Qin

72: WANG, Qin

#### 54: FABRIC FOR PREVENTING AND CONTROLLING RHEUMATOID ARTHRITIS

00: -

A fabric for preventing and controlling rheumatoid arthritis is impregnated with a traditional Chinese medicine impregnation liquid for preventing and controlling rheumatoid arthritis during preparation of the fabric. The traditional Chinese medicine

impregnation liquid consists of shaved cinnamon bark, asarum, cornu bubali, radix angelicae pubescentis, rhizoma anemarrhenae, caulis Ionicerae, rhizoma cimicifugae, and cynanchum paniculatum. The fabric is convenient to manufacture, and has an excellent effect of preventing rheumatoid arthritis.

21: 2020/05279. 22: 25/08/2020. 43: 6/24/2021

51: F16G

71: FP BUSINESS INVEST

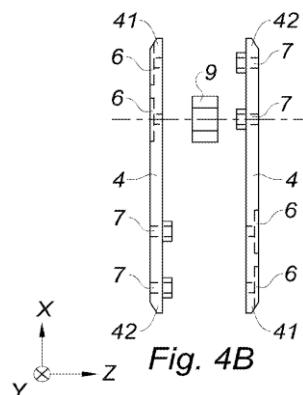
72: TAVERNIER, Bernard

33: FR 31: 18/51530 32: 2018-02-22

#### 54: JUNCTION DEVICE FOR CONVEYOR BELTS

00: -

The invention relates to a junction plate (4) for a junction device (1) for a conveyor belt (2) intended to connect two ends (3) of a conveyor belt (2), the junction device (1) being of the type comprising at least two junction plates (4) secured together with the ends (3) of the conveyor belt (2) by securing means (5) each comprising a head (5a) and an anchoring section (5b); the junction plate (4) being noteworthy in that it comprises first interfaces (6) for cooperating with the heads (5a) of the securing means (5) and second interfaces (7) for cooperating with the anchoring sections (5b) of the securing means (5), the first and second interfaces (6, 7) being arranged so as to form a repeating succession of patterns (8), and in that each pattern (8) has the same number of first interfaces (6) as second interfaces (7).



21: 2020/05280. 22: 25/08/2020. 43: 6/24/2021

51: F16G

71: FP BUSINESS INVEST

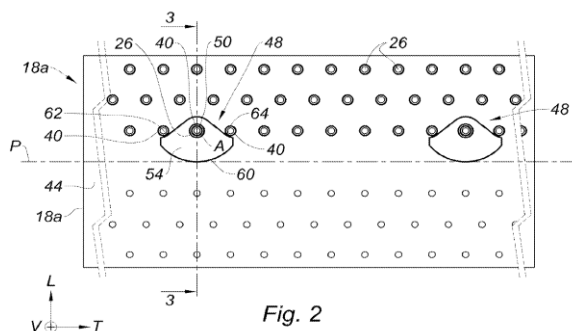
72: TAVERNIER, Bernard

33: FR 31: 18/51535 32: 2018-02-22

**54: JOINING DEVICE WITH SPACER FOR LINKING THE TWO ENDS OF A CONVEYOR BELT**

00: -

The invention concerns a joining device (10) for linking two ends of at least one longitudinal conveyor belt, the joining device (10) comprising at least a first junction plate (18a) and a second junction plate (18b) that are configured to each cover a separate side of the ends of the conveyor belt (16), an attachment device (24) for attaching said junction plates (18a,18b) together, a removable spacer (48) that is suitable for being interposed between the flanges of the first pair of flanges (20) formed by the junction plates (18a,18b), such that the centring hole (50) of the spacer (48) is offset from the junction plane (P), in order to free up the space delimited between the second pair of flanges (22).



21: 2020/05306. 22: 8/26/2020. 43: 6/25/2021

51: B65B; G01G

71: André Emile ROODT

72: André Emile ROODT

33: ZA 31: 2019/07383 32: 2019-11-07

**54: WEIGHING SCALE ARRANGEMENT**

00: -

The invention discloses a weighing scale arrangement, which includes an integrated scale and having led indicator means and/or packaging animation means adapted to provide visual instruction for an operator to perform specific actions. The integrated scale includes an embedded microprocessor; a graphical display; a touch user interface; a load cell; a load cell conditioning adapted for weighing fruit in bunches or berries to a specified target weight; and the led indicator means and/or packaging animation means adapted to

provide visual instruction for the operator to perform specific actions.

21: 2020/05316. 22: 26/08/2020. 43: 6/24/2021

51: G06Q

71: ENTERSEKT INTERNATIONAL LIMITED

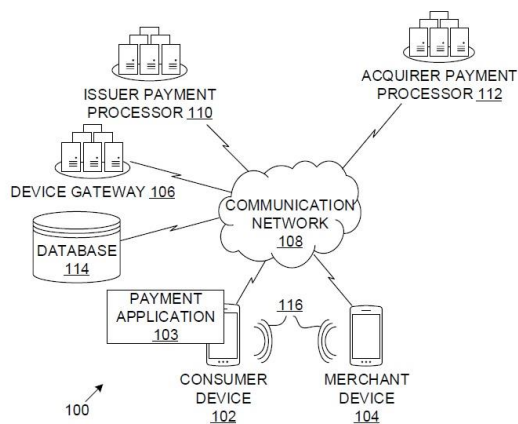
72: OOSTHUIZEN, Gerhard Gysbert, BESTER, Daniël Deetlefs

33: ZA 31: 2018/01524 32: 2018-03-06

**54: CONTACTLESS COMMUNICATION-BASED FINANCIAL TRANSACTIONS**

00: -

A system and method for contactless communication-based financial transactions are described. In a method conducted at a consumer device, a read-only contactless communication interrogation of a contactless element associated with a merchant device is performed. A payment reference is received from the contactless element in response to the read-only interrogation. A payment authorisation confirmation message including the payment reference is generated. The payment authorisation confirmation message relates to a financial transaction between a consumer and a merchant and is transmitted, via a communication network, to a device gateway for processing the financial transaction.



21: 2020/05337. 22: 8/27/2020. 43: 6/23/2021

51: H02K

71: Qilu University of Technology

72: SUN, Mingcan, CAO, Maoyong, MA, Fengying, SUN, Kai, JI, Peng, YAN, Zhiguo

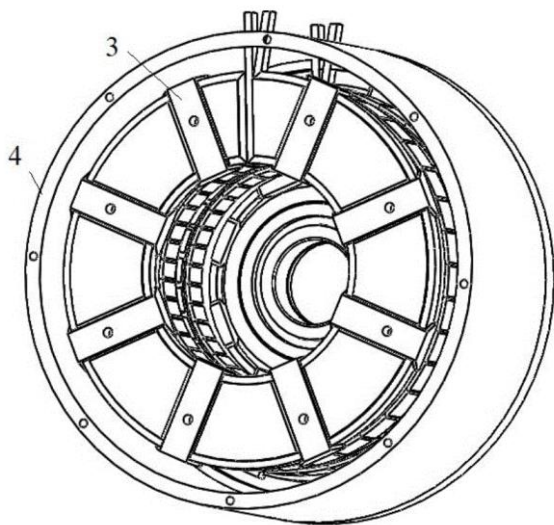
33: CN 31: 202010514319.1 32: 2020-06-08

**54: DISC MOTOR BASED ON DOVETAIL SLOT WEDGE COOLING SYSTEM**

00: -



A disc motor based on dovetail slot wedge cooling system, which relates to the technical field of motor, including a casing, a stator and a winding installed in the casing, the stator is fixed by a dovetail slot wedge, the end of the dovetail slot wedge is located at the outer side of the stator edge and is provided with an opening, and the cooling channel is installed in the opening, and the cooling channel is communicated with the channel inlet and the channel outlet which are located outside the casing. Without increasing the axial length of the motor, the present disclosure has the advantages of compact structure, good cooling effect, and does not significantly increase the process difficulty.



21: 2020/05343. 22: 8/27/2020. 43: 6/23/2021  
51: B62D

71: OK Biotech Co. Ltd.

72: LEE, AN-YUAN, LAI, CHIA-TE

33: TW 31: 108131627 32: 2019-09-03

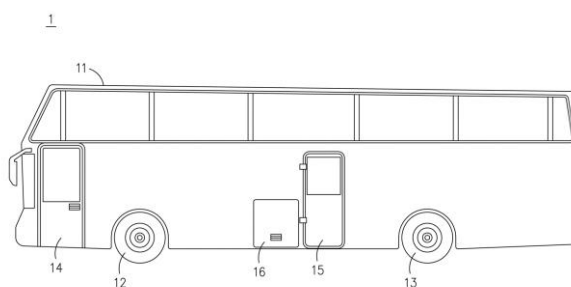
33: TW 31: 109123961 32: 2020-07-15

#### **54: TOUR BUS**

00: -

A tour bus includes a vehicle body, a front door, a rear door, a plurality of wheels, a luggage compartment door and a movable placing portion. The front door, the rear door and the luggage compartment door are all disposed at one lateral side of the vehicle body, with the luggage compartment door between the front door and the rear door. The wheels connected individually to a bottom of the vehicle body are used for displacing the vehicle body. The movable placing portion is foldably disposed in a storage area of the vehicle

body. The movable placing portion includes a placing platform and a supportive structure. The placing platform can protrude out of the storage area of the vehicle body. The supportive structure is pivotally connected with the placing platform, and the supportive structure supports the placing platform while the placing platform is moved out of the vehicle body.



21: 2020/05361. 22: 27/08/2020. 43: 6/30/2021

51: A01N; C12Q; A01P

71: HOCHSCHULE ANHALT

72: Ingo SCHELLENBERG, Jörg GEISTLINGER

33: DE 31: 10 2018 002 234.0 32: 2018-03-15

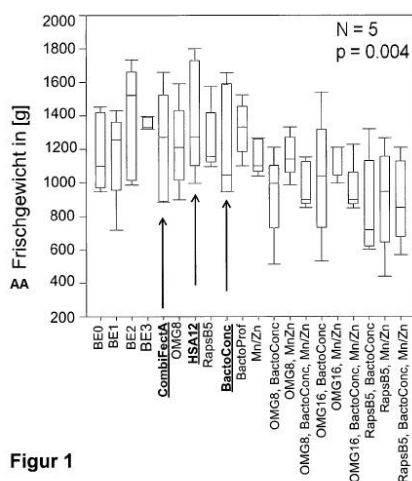
#### **54: FUNGAL STRAIN OF THE GENUS TRICHODERMA AND METHOD FOR PROMOTING PLANT GROWTH**

00: -

The invention relates to a fungal strain of the genus *Trichoderma* with the designation HSA12 and to compositions that contain said fungal strain or spores thereof. The invention further relates to the use of the fungal strain or spores thereof in different methods, for example in a method for promoting and/or stabilizing plant growth and/or for increasing the yields of cultivated plants, which methods comprise inoculating soil, roots and/or above-ground plant parts with the fungal strain or spores with compositions containing said fungal strain or spores thereof, in order, inter alia, to increase the efficiency of nutrient intake and to improve the stress tolerance of cultivated plants. The invention further relates to the use of the fungal strain or spores thereof in a method for improving the structure and health of the soil or for decontaminating or remediating soil or a body of water and in a method for stabilizing or reestablishing endangered or desired wild plant populations. The invention further relates to a set of primer pairs for amplifying microsatellite loci of the genome of the fungal strain in order to determine



molecular markers and to identify the fungal strain, and to a method for determining the fungal strain.



Figur 1

AA Fresh weight in [g]

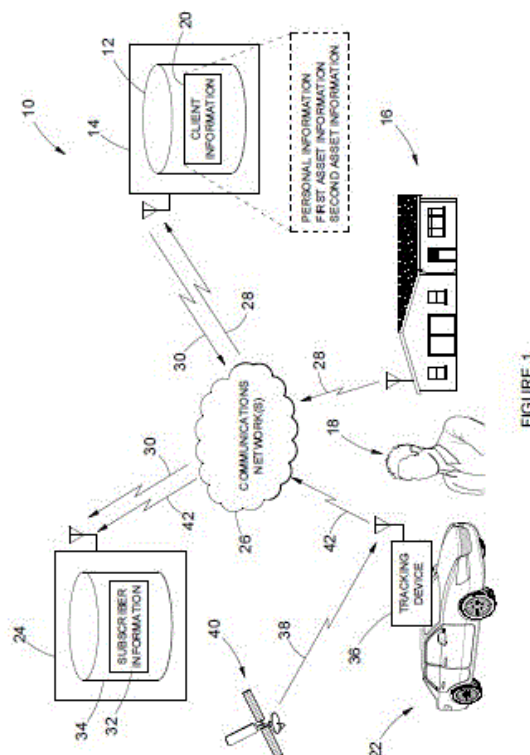


FIGURE 1

21: 2020/05409. 22: 8/31/2020. 43: 6/24/2021

51: G06F; G08B

71: CONRADIE, Dawid Petrus

72: CONRADIE, Dawid Petrus

33: ZA 31: 2019/06930 32: 2019-10-22

#### 54: SECURITY SYSTEM AND METHOD

00: -

This invention relates to a security system 10 and method. The system 10 comprises an electronic database 12 that is accessible by a first asset monitoring service provider 14 responsible for monitoring a first asset 16 that is associated with a client 18 of the first asset monitoring service provider 14. The database 12 includes client information 20 relating to the first asset 16, the client 18, second asset 22 that is also associated with the client 18, and a second asset monitoring service provider 24 that is responsible for monitoring the second asset 22. The client information 20 is stored in a suitable electronic format on the database 12.

21: 2020/05415. 22: 31/08/2020. 43: 6/30/2021

51: G06F; G06Q

71: ARBALEST SOLUTIONS (PTY) LIMITED

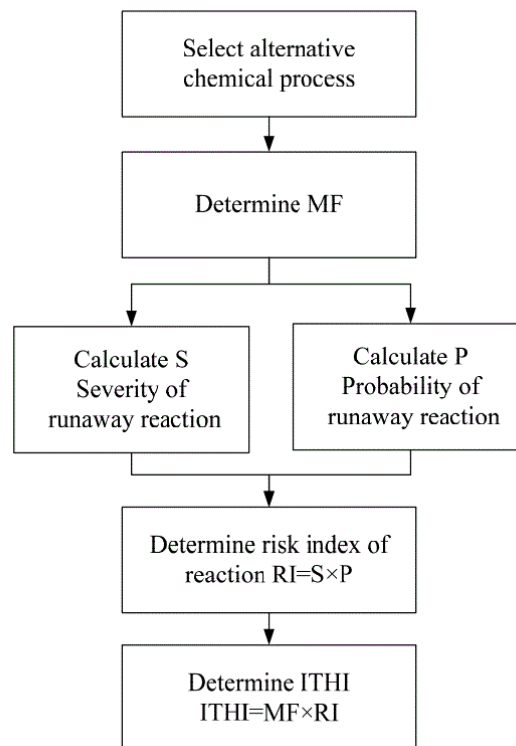
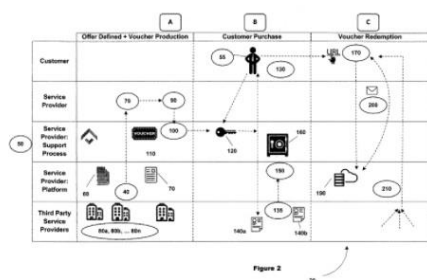
72: SCHWARZ, Hayden Paul, LOWE, Neil

33: ZA 31: 2018/05818 32: 2018-08-30

#### 54: METHOD AND SYSTEM FOR MULTIPLE PRODUCT REDEMPTION

00: -

This invention relates to a method (10) and an associated system (30) for redeeming multiple products with a single voucher (110), the method (10) comprising the steps of: selecting a series of at least two products for bundling into a single offer (40); generating (90) a unique identifier for that specific offer (70); creating (100) a voucher (110) for that offer (70); priming (135) the series of licenses (140a, 140b, 140n) associated with the offer (70); redeeming the offer via activation of the unique identifier, in which step the customer (55) customises at least one element of the offer (70), such that all products in the offer (70) are activated via the injection of a single redemption key (120), where the redemption key (120) is associated uniquely with the unique identifier. The invention extends, further, to various aspects of validation in the method (10).



21: 2020/05471. 22: 02/09/2020. 43: 6/11/2021

51: G06Q

71: Nanjing Tech University

72: Juncheng JIANG, Dan WEI, Lei NI, Yong PAN

33: CN 31: 201910743160.8 32: 2019-08-13

#### **54: THERMAL RUNAWAY HAZARD EVALUATION METHOD OF CHEMICAL PROCESS**

00: -

A thermal runaway hazard evaluation method of chemical process includes: 1) collecting thermal decomposition data of chemical substance and thermal runaway data of reaction; 2) determining the material factor (MF) by an initial reaction temperature (Tonset) and a max power density (MPD) of a substance; 3) determining the risk index (RI) of reaction, wherein RI is a product of probability (P) and severity (S) of risk; and 4) calculating the inherent thermal-runaway hazard index (ITHI) of a chemical process, and determine the hazard class of thermal runaway according to the classification criteria for ITHI. The disclosure combines the material thermal risk and reaction runaway risk and provides quantitative assessment method for thermal runaway hazard of chemical process. Instructor:

21: 2020/05511. 22: 04/09/2020. 43: 7/7/2021

51: C23C

71: ARCELORMITTAL

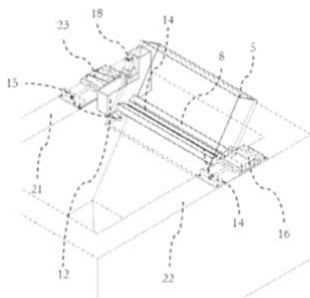
72: Angel GARCIA MARTINO, Inocencio GARCIA-CHAPA

33: IB 31: PCT/IB2018/051603 32: 2018-03-12

#### **54: METHOD FOR DIP-COATING A METAL STRIP**

00: -

The present invention relates to an equipment for the continuous hot dip-coating of a metal strip 9 comprising an annealing furnace, a tank 2 containing a liquid metal bath 3, a snout connecting the annealing furnace and said tank 2, through which the metal strip 9 runs in a protective atmosphere and the lower part of said snout, the sabot 5, is at least partly immersed in the liquid metal bath 3 in order to define with the surface of the bath, and inside this snout, a liquid seal 6, an overflow 7 not connected to the snout, said overflow 7 comprising at least one tray 8, placed in the vicinity of the strip 9 when entering said liquid metal bath 3 and encompassed by said liquid seal 6.



21: 2020/05570. 22: 08/09/2020. 43: 6/9/2021

51: A61B

71: GRUPPO SCIENZA MACHINALE S.R.L.,  
TECHLAMED S.R.L.

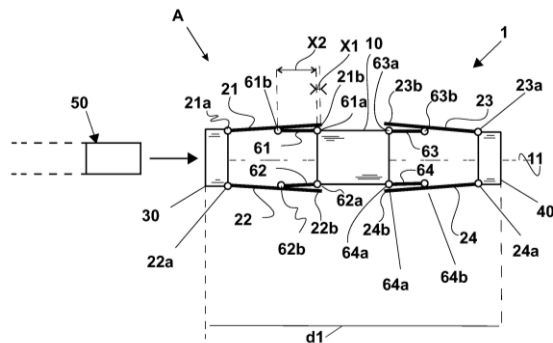
72: BOSIO, Luca, FERRETTI, Luca, FORTUNA,  
Lorenzo, GARLATTI, Gianni, VALLEGGI, Renzo

33: IT 31: 102018000003973 32: 2018-03-23

#### **54: INTERSPINOUS FUSION DEVICE**

00: -

Interspinous fusion device (1) comprising a central body (10) defining a longitudinal direction (11) and configured to be inserted between two adjacent spinous processes; a proximal body (30) and a distal body (40), opposite to each other with respect to the central body and configured to relatively translate towards each other along the longitudinal direction; a pair of proximal jaws (21, 22) and a pair of distal jaws (23, 24) opposite to each other with respect to the central body and spaced apart from each other along the longitudinal direction, and having a first end connected by hinges (21a, 22a, 23a, 24a) to the proximal body or to the distal body, and also having a second end configured to abut against a spinous process; an actuation system (50) of the proximal and distal bodies (30,40), which are configured to be percutaneously actuated to cause a relative translation and a rotation of the jaws about the proximal body and the distal body, so as to move from a closed configuration to an open configuration of the jaws.



21: 2020/05572. 22: 08/09/2020. 43: 6/9/2021

51: D07B; E04C

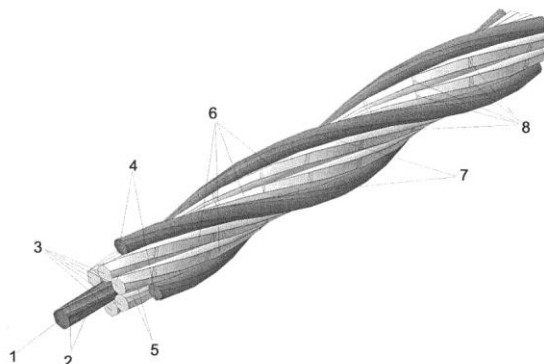
71: AKTSIONERNOYE OBSHCHESTVO  
"ARMASIL TEKHOLODZHIZ"

72: ZARETCKII, Lev Markovich, KHARITONOV,  
Veniamin Alexandrovich

#### **54: REINFORCING CABLE HAVING INCREASED DEGREE OF BONDING**

00: -

The invention can be used in the production of prestressed reinforcement. The problem of interest consists in developing a reinforcing cable having an increased degree of bonding, said cable having guaranteed structural stability and providing an increased degree of bonding with concrete, durability, and stress relaxation resistance. In a reinforcing cable, a central wire (1) is disposed along the axis of the cable, and is configured with spiral grooves (2) having a pitch that is equal to the pitch of the lay of the cable. Strand wires of an inner layer are disposed within the grooves, each of said wires being in contact with the central wire and with two adjacent wires of the inner layer. Strand wires are helically arranged at equal intervals from one another in an outer layer, each of said wires being disposed in a groove between the strand wires of the inner layer, and being in contact with the latter.



21: 2020/05738. 22: 9/16/2020. 43: 7/7/2021

51: B60R; G09F; H04N

71: Denzyl DE JAGER

72: Denzyl DE JAGER

33: ZA 31: 2019/06865 32: 2019-10-18

**54: MOBILE ADVERTISING ARRANGEMENT**

00: -

The invention discloses a mobile advertising arrangement, which includes mobility means; at least one display means supported by the mobility means; energy means adapted to provide energy to the display means. The mobility means are a modified vehicle, a van, a pick-up, a truck or any other vehicle means. The display means is a monitor.

21: 2020/05767. 22: 9/17/2020. 43: 6/23/2021

51: G06F; G06T; G06N

71: Hohai University

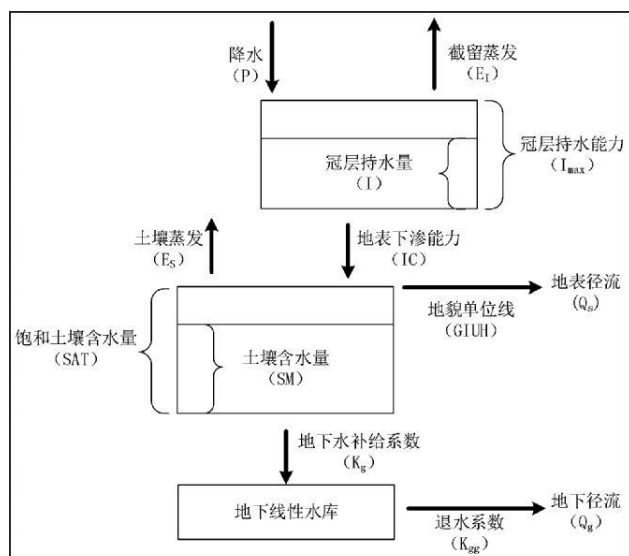
72: WANG, Wen, CUI, Wei

33: CN 31: 201910879959. X 32: 2019-09-18

**54: HYDROLOGICAL MODEL BASED ON GEOMORPHOLOGIC UNIT HYDROGRAPH**

00: -

A hydrological model based on a geomorphologic unit hydrograph is built by the steps of computing canopy interception based on data of precipitation and Normalized Difference Vegetation Index (NDVI) data, computing surface water recharge and groundwater recharge based on a simple mixed saturation excess and infiltration excess runoff yield mode, computing surface runoff based on a geomorphologic unit hydrograph derived from surface runoff yield and Digital Elevation Model (DEM) data, computing groundwater runoff based on the groundwater recharge and a linear groundwater reservoir, and combining the surface runoff and the groundwater runoff into basin outflow. The hydrological model is capable of well simulating a flood process in a basin with simple and clear parameter determining method and input data from stable and reliable sources, and plays a positive role in research on flood forecasting and early warning in regions with no data or insufficient data.



21: 2020/05770. 22: 9/17/2020. 43: 7/7/2021

51: G06Q

71: FOURIE, Juane

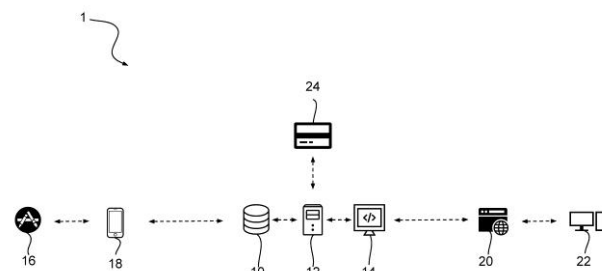
72: FOURIE, Juane

33: ZA 31: 2019/06116 32: 2019-09-17

**54: PROPERTY BROKERAGE METHOD AND SYSTEM**

00: -

A method and system of brokering a property which includes uploading a buyer profile and a seller profile to a server-side brokerage software application, uploading buyer criteria of the buyer, matching the buyer criteria to the seller profile, generating a buyer lead, accessing a property listing of the seller, transmitting a push notification of the property listing to the buyer and, in response thereto, receiving an acceptance of opportunity notification from the buyer.



21: 2020/05900. 22: 23/09/2020. 43: 6/9/2021

51: A61G

71: RODA FUTURA, LLC

72: PESKIN, Evan, NAGAR, Vivek, WILSON, Audrey, SLAVIN, Jonathan

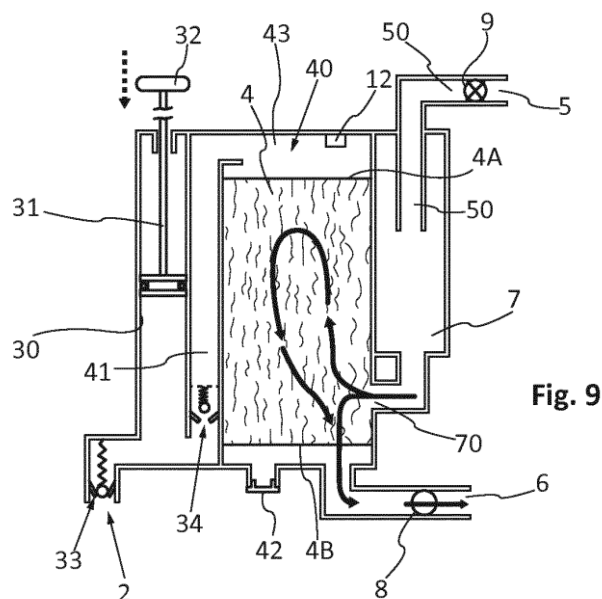
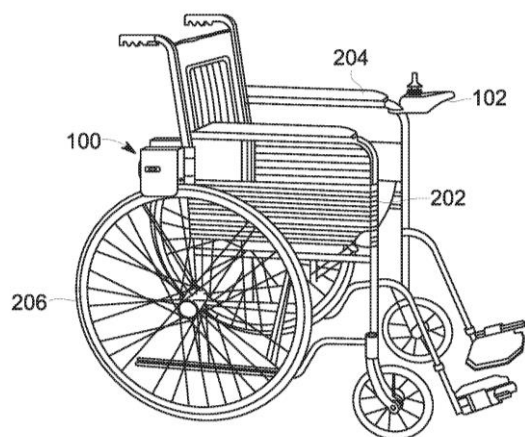
33: US 31: 62/663,289 32: 2018-04-27

**54: REMOVABLE POWER ASSIST FOR MANUAL WHEELCHAIR**

00: -

Disclosed is a device for converting a manual wheelchair into an electronic wheelchair is provided. The device includes a joystick, a communication unit, a motor, a retractable friction roller, an engagement unit and a power source. The joystick is operably connected to a communication unit. The communication unit is operably connected to a motor. The motor includes an axle connected to a rotor. The retractable friction roller is mounted on the axle. The roller is placed in contact with a wheel of a manual wheelchair. The engagement unit is attached to the manual wheelchair to detachably

attach the friction roller and the wheel. The power source is operably connected to the motor and the joystick.



21: 2020/05904. 22: 23/09/2020. 43: 6/10/2021

51: B01D; C02F

71: FONTO DE VIVO

72: MONNIER, David, CAILLEAU, Anthony

33: FR 31: 1870364 32: 2018-03-30

**54: MANUALLY OPERATED WATER TREATMENT DEVICE AND METHOD FOR WASHING THE FILTER OF SAID DEVICE**

00: -

The invention relates to a manually operated water treatment device (1), which is in particular portable or transportable, having water inlet means (2), manual pumping means (3), a filter (4), a water outlet (5), a closed drain outlet (6), and preferably a blow-off (42), characterized in that it has a distribution chamber (7) which is arranged between the filter (4) and the water outlet (5) and which stores the clean filtered water output by the filter (4) to be dispensed through the water outlet (5), the distribution chamber (7) communicating directly with the filter (4), and the water in the distribution chamber being able to be sent under pressure into the filter in order to carry out backwashing of the filter.

21: 2020/06203. 22: 10/7/2020. 43: 6/11/2021

51: B60B

71: THIART, Willem Johannes MacDonald

72: THIART, Willem Johannes MacDonald, THIART, Emile

33: ZA 31: 2019/06604 32: 2019-10-08

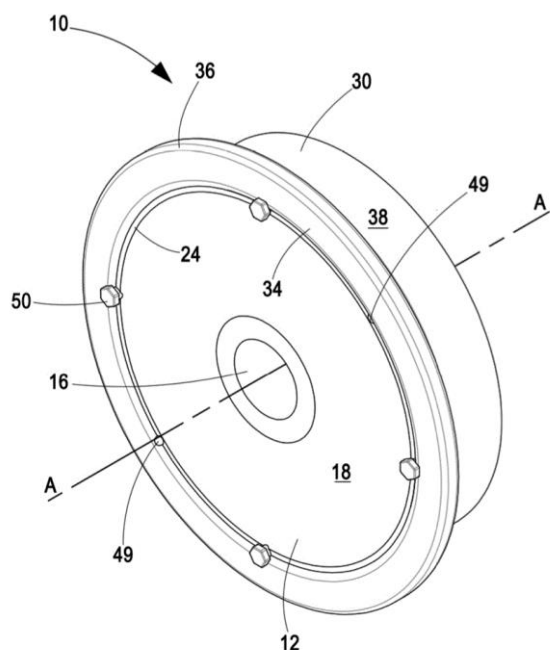
**54: RAILWAY WHEEL WITH REPLACEABLE TYRE**

00: -

THIS invention relates to a railway wheel with a replaceable tyre. The railway wheel includes a wheel and a tyre. The wheel comprises a hub, a web extending substantially radially outwardly from the hub and a rim supported on the web concentrically relative to the hub, the rim comprising an outer mating surface tapering radially outwardly from between front and rear faces thereof. The tyre comprises an annular body having an operative front face; an opposing operative rear face; a flange located projecting radially outwardly from the rear face; and a tread tapering radially outwardly from the front face of the annular body towards the flange. The annular body defines a central mating bore having an inner mating surface tapering radially outwardly from the front face towards the rear face thereof, characterised in that the tyre is removably mountable on the wheel such that their respective inner and outer mating surfaces are in direct contact, with the taper on each acting to restrict movement of the operatively mounted tyre relative to the wheel in at least one axial direction. The railway wheel further includes a means of fastening the operatively



mounted tyre to the wheel thereby to restrict movement of the operatively mounted tyre relative to the wheel in at least an opposite axial direction.



21: 2020/06352. 22: 13/10/2020. 43: 6/11/2021

51: A41D

71: ANTUNES, Nuno

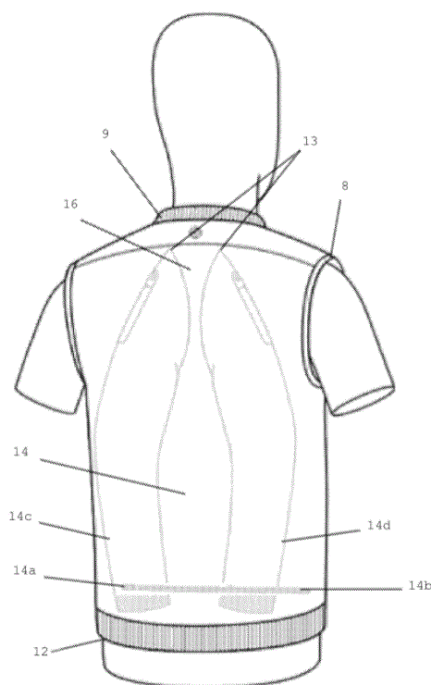
72: ANTUNES, Nuno

33: PT 31: 110725 32: 2018-05-07

#### **54: JACKETS WITH POCKETS AND REMOVABLE SLEEVES FOR USE IN THE HOSPITAL SETTING**

00: -

The present invention is related to a textile article developed to be used as a way to warm up healthcare professionals, said article being in the form of a jacket with pockets and removable sleeves. This jacket has the particularity of being functional not only in terms of warming up the user, but also for allowing to store small personal and / or professional objects and, simultaneously, fulfilling the requirements of asepsis and sterilization imposed to the healthcare professionals. Therefore, the present invention belongs to the area of protective clothing for professional use, particularly to be used by healthcare professionals, preferentially in a hospital setting.



21: 2020/06353. 22: 3/24/2020. 43: 7/7/2021

51: G01N

71: AFFILIATED HOSPITAL OF NANTONG UNIVERSITY

72: HUANG, Zhongwei, QI, Lei, SUN, Hualin, JIANG, Haiyan, GU, Zhifeng, LIANG, Guiwen, XI, Qinghua, XIAO, Mingbin, WU, Zhenghua, DONG, Yansong, MAO, Guomin

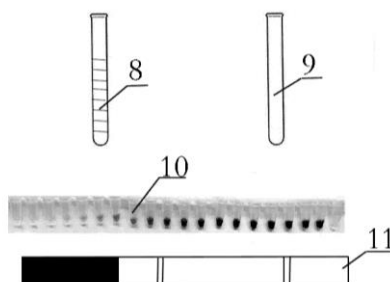
33: CN 31: 201910614716.3 32: 2019-07-09

#### **54: QUALITATIVE AND SEMIQUANTITATIVE DETECTION KIT FOR TOXICANTS AND QUALITATIVE AND SEMIQUANTITATIVE METHOD FOR TOXICANTS**

00: -

A qualitative and semiquantitative detection kit and method for toxicants. A 5ml detection solution centrifuge tube containing a 3ml detection solution, a 5ml blank centrifuge tube, a reaction colorimetric card onto which the detection solution is added at different paraquat concentrations, and a qualitative detection reagent strip are arranged in the kit. The qualitative method for the toxicants comprises: (1) a sample to be detected is added into the detection solution, the mass ratio of the sample to be detected to the detection solution is 1:4 to 4:1; (2) if the color of the mixed liquor in the step (1) changes, it indicates that the sample to be detected contains paraquat; and (3) when an immersing end of the qualitative detection reagent strip is immersed in the

sample to be detected, and color change occurs to reaction pools immediately, it indicates that the sample to be detected contains paraquat.



21: 2020/06354. 22: 3/24/2020. 43: 7/7/2021

51: A61P

71: NANTONG UNIVERSITY

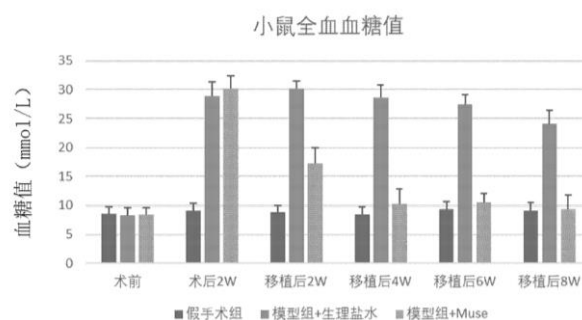
72: CHEN, Gang, WANG, Xiaodong, ZHAO, Yayu, DAI, Yujuan

33: CN 31: 201910977978.6 32: 2019-10-15

**54: USE OF MULTILINEAGE DIFFERENTIATING STRESS ENDURING CELLS, DRUG FOR TREATING DIABETES AND PREPARATION METHOD THEREOF**

00: -

The present invention provides use of multilineage differentiating stress enduring cells in preparation of a drug for treating diabetes. The invention also provides a drug for treating diabetes, characterized by at least including a cell suspension of multilineage differentiating stress enduring cells. The drug for treating diabetes according to the invention can also contain pharmaceutically acceptable adjuvant(s). The invention also provides a preparation method of the drug for treating diabetes, characterized by including the following steps: (1) preparing and cultivating the multilineage differentiating stress enduring cells; and (2) preparing a cell suspension of the multilineage differentiating stress enduring cells. The use of the multilineage differentiating stress enduring cells according to the invention in preparation of the drug for treating diabetes provides the treatment of diabetes with a new direction.



21: 2020/06355. 22: 3/24/2020. 43: 7/7/2021

51: A61P

71: NANTONG UNIVERSITY

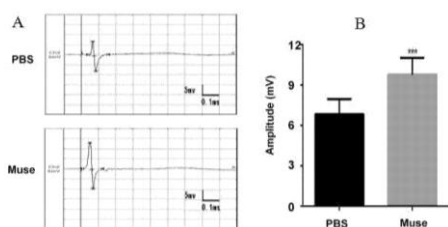
72: CHEN, Gang, WANG, Xiaodong, ZHAO, Yayu

33: CN 31: 201910977582.1 32: 2019-10-15

**54: USE OF MULTILINEAGE DIFFERENTIATING STRESS ENDURING CELLS, DRUG FOR TREATING PERIPHERAL NERVE INJURY AND PREPARATION METHOD THEREOF**

00: -

The present invention provides use of multilineage differentiating stress enduring cells in preparation of a drug for treating peripheral nerve injury. The invention also provides a drug for treating peripheral nerve injury, characterized by at least including a cell suspension of the multilineage differentiating stress enduring cells. The invention also provides a preparation method of the drug for treating peripheral nerve injury, characterized by comprising the following steps: (1) sorting to obtain the multilineage differentiating stress enduring cells; (2) performing suspension culturing on the sorted multilineage differentiating stress enduring cells; and (3) preparing a cell suspension of the multilineage differentiating stress enduring cells. The use of multilineage differentiating stress enduring cells according to the invention in preparation of the drug for treating peripheral nerve injury provides the clinical treatment of peripheral nerve injury with a new option.



21: 2020/06357. 22: 3/24/2020. 43: 7/7/2021

51: A61B

71: QIAO, Nan

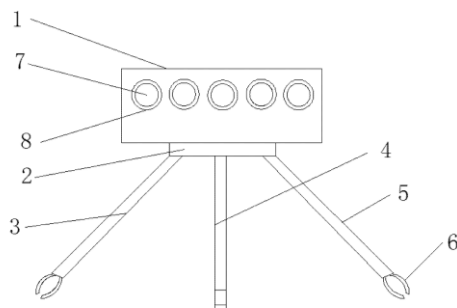
72: QIAO, Nan

33: CN 31: 202020362345.2 32: 2020-03-20

#### **54: TOOL STORAGE DEVICE FOR LAPAROSCOPIC SURGERY**

00: -

The present invention provides a tool storage device for laparoscopic surgery, comprising a storage box; the lower end of the storage box fixedly provided with a tray; the lower part of the tray rotatably provided with a first support, a second and third support forming a tripod structure; the bottom ends of the first support, the second support and the third support are provided with fixation clamps used for being clamped on an operating table; the storage box is a rectangular cavity structure; a plurality of storage ports are formed in one end surface of the storage box; a plurality of supporting pipes are fixedly arranged in the storage box; each supporting pipe communicates with the corresponding storage port; the insides of the plurality of storage ports are detachably connected with guide pipes used for storing surgical instruments; and the plurality of guide pipes are sleeved by the supporting pipes.



21: 2020/06358. 22: 3/24/2020. 43: 7/7/2021

51: E01C

71: GUAN, Ding

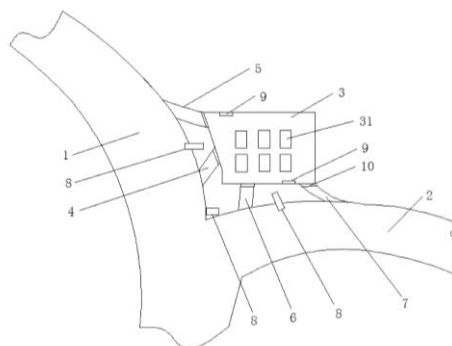
72: GUAN, Ding

33: CN 31: 202020375103.7 32: 2020-03-23

#### **54: ROAD STRUCTURE FOR EXPRESSWAY INTERSECTION**

00: -

The invention provides a road structure for an expressway intersection. The intersection is formed by a first expressway and a second expressway which intersect, and includes a parking platform, multiple parking spaces are arranged on the parking platform, the first expressway is provided with a first branch road and a second branch road, the first branch road and the second branch road are connected to the parking platform, the second expressway is provided with a third branch road and a fourth branch road, and the third branch road and the fourth branch road are connected to the parking platform; the first branch road and the third branch road are configured as entry lanes; and the second branch road and the fourth branch road are both configured as exit lanes.



21: 2020/06360. 22: 3/24/2020. 43: 7/7/2021

51: A61P

71: AFFILIATED HOSPITAL OF NANTONG UNIVERSITY

72: QI, Lei, JIANG, Haiyan, XI, Qinghua, HUANG, Zhongwei, GU, Zhifeng, SUN, Hualin, XIAO, Mingbin, LIANG, Guiwen, CUI, Xiaohui, WU, Zhenghua, WU, Yao

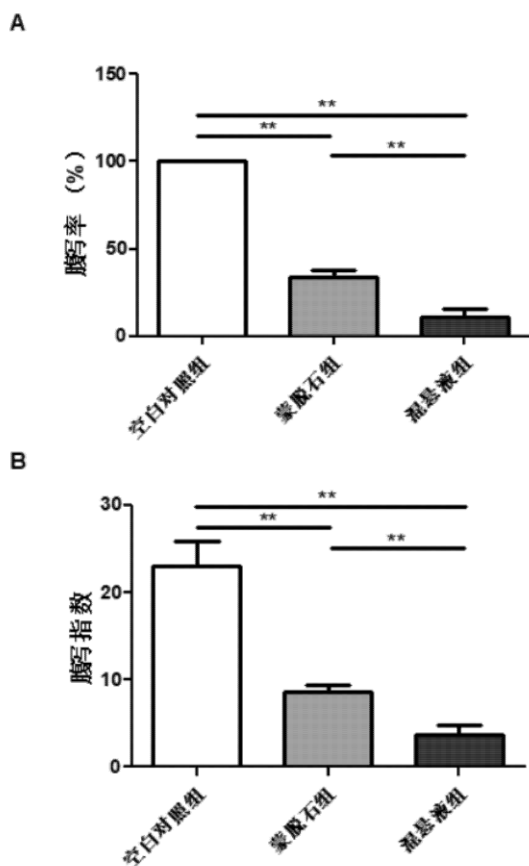
33: CN 31: 201910953439.9 32: 2019-10-09

#### **54: SUSPENSION CONTAINING LOW-METHOXYLATION PECTIN AND MONTMORILLONITE AND USED FOR TREATING ACUTE DIARRHEA**

00: -

The invention provides a suspension containing low-methoxylation pectin and montmorillonite and used for treating acute diarrhea. The suspension includes

the following components in parts by mass: 100-1000 parts of the low-methoxylation pectin, 100-1000 parts of the montmorillonite, 100-2000 parts of glucose, 100-1000 parts of a natural polymer suspending agent, 50 parts of sodium benzoate, and a sufficient amount of purified water. In the invention, the montmorillonite is prepared into the suspension, so that the suspension can have finer particles, has bigger adsorbability and a stronger effect of protecting digestive tract mucosa, can effectively eliminate pathogens, and exert a pharmacologic action more quickly; besides, the low-methoxylation pectin is added, so that the volume of the montmorillonite suspension can be effectively increased, adsorbability on moisture can be improved, the particle-like coarse touch feeling of the montmorillonite suspension can be reduced, the taste of the montmorillonite suspension can be improved.



21: 2020/06370. 22: 14/10/2020. 43: 6/11/2021  
51: A61K  
71: IZUMI TECHNOLOGY, LLC

72: BUNT, Antonius Martinus Gustave

33: US 31: 62/646,238 32: 2018-03-21

#### **54: DEUTERATED ANALOGS OF ELACRIDAR**

00: -

The present invention relates to efflux inhibitor compounds, compositions, and methods of using the same. More specifically, the instant invention understood deuterated analogs of elacridar with superior pharmacokinetic properties such that it is now possible to facilitate accumulation and distribution of therapeutic agents to effective levels in cells or compartments protected by efflux transporter proteins such as Breast Cancer Resistance Protein (BCRP) and P-Glycoprotein (P-GP). Such transporter protected compartments include brain, spinal cord, nerves, cerebrospinal fluid, testis, eyeballs, retina, inner ear, placenta, mammary gland, liver, biliary tract, kidney, intestines, lung, adrenal cortex, endometrium, hematopoietic cells, stem cells, and solid tumors. In other embodiments, the present invention comprises methods of using the instant deuterated analogs.

21: 2020/06418. 22: 15/10/2020. 43: 6/11/2021

51: H04L; H04W

71: GOOEE Limited

72: COOMBES, Simon, SILVERMAN, Shmuel

33: US 31: 62/649,868 32: 2018-03-29

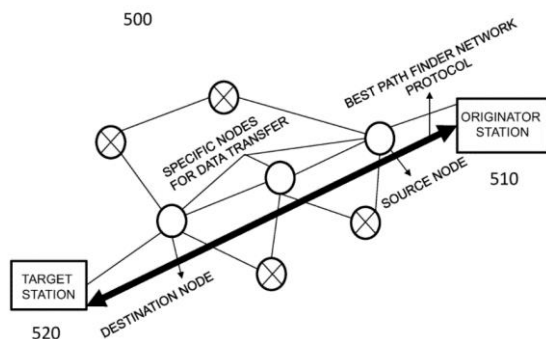
33: US 31: 62/649,873 32: 2018-03-29

33: US 31: 16/264,915 32: 2019-02-01

#### **54: SYSTEM AND METHOD FOR MANAGING AND CONTROLLING A DYNAMIC TUNNELING PROTOCOL IN A MESH NETWORK**

00: -

According to some embodiments, a system and method for determining a best path in a mesh network is disclosed. The method understood collecting path information from a plurality of nodes in a mesh network during normal network operation of the mesh network. A first of the plurality of nodes is associated with an application that transmits high-density data packets and a second of the plurality of nodes in the mesh network is to function as a target station for receiving the high-density data packets. A best path to transmit the high-density data packets to the target station based on the collected path information is determined and the best path is transmitted to the plurality of nodes in the mesh network for initiating transmission of the high-density data packets to the target station via the best path.



21: 2020/06419. 22: 15/10/2020. 43: 6/11/2021

51: H04L; H04W

71: GOOEE Limited

72: SILVERMAN, Shmuel, COOMBES, Simon

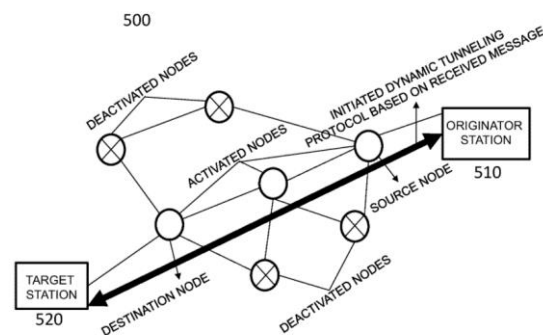
33: US 31: 62/649,868 32: 2018-03-29

33: US 31: 16/264,915 32: 2019-02-01

**54: SYSTEM AND METHOD FOR MANAGING AND CONTROLLING A DYNAMIC TUNNELING PROTOCOL IN A MESH NETWORK**

00: -

According to some embodiments, a system and method for managing dynamic tunneling in a mesh network is disclosed. The method understood associating an application that transmits high density data packets with a first of a plurality of nodes in a mesh network. The first of the plurality of nodes functions as an originator station for transmitting the high-density data packets to a second of the plurality of nodes in the mesh network that functions as a target station. An auto-trigger to be initiated by the application in a case that the application requires more bandwidth is created. In response to the auto-trigger being activated, a message is generated across the plurality of nodes to activate a best path through the mesh network where the message indicates a time duration that the application will require more bandwidth.



21: 2020/06447. 22: 16/10/2020. 43: 7/14/2021

51: E01C; G08G

71: LEUNG, Valiant Yuk Yuen

72: LEUNG, Valiant Yuk Yuen

33: AU 31: 2018901278 32: 2018-04-17

**54: SYNERGISTIC RECONFIGURABLE TRAFFIC INTERSECTION**

00: -

The invention relates to a traffic intersection and traffic guidance system, which has an intersection region where two roads cross, and a distal crossover zone that allows vehicles that are turning to the right to crossover to the right side of the road at a distance from the intersection. In this way, a separate right turn phase is not required by the traffic lights at the intersection, and vehicles turning right can meanwhile turn as vehicle moving straight over the intersection or turning left. The turning right lane approaching the distal crossover zone from a distal side of the distal zone is located on the far left, allowing vehicles going straight to continue to move in a straight line. Lanes that guide vehicles moving straight are reconfigurable to guide vehicles to move in opposed directions at different time, depending on the traffic loading, and are also reconfigurable as parking spaces.



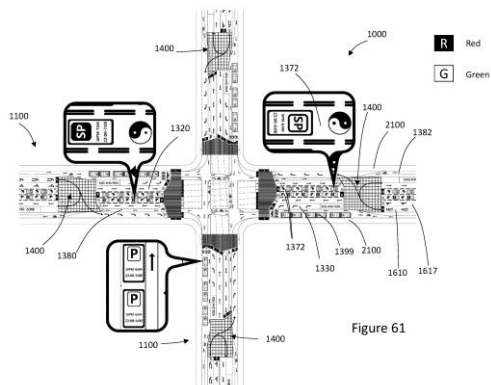


Figure 61

21: 2020/06466. 22: 10/15/2020. 43: 6/23/2021

51: C02F; E02B

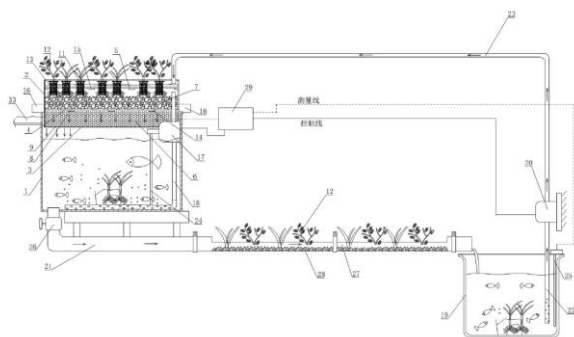
71: SHANDONG ACADEMY OF SCIENCES

72: CHEN, QINGFENG, ZHAO, CHANGSHENG, GUO, BEIBEI

**54: ECOLOGICAL PURIFICATION SYSTEM FOR THREE-DIMENSIONAL CONTROL OF AGRICULTURAL NON-POINT SOURCE POLLUTION WASTEWATER AND CONSTRUCTION METHOD**

00: -

The present invention relates to an ecological purification system and a construction method thereof, particularly relates to an ecological purification system for three-dimensional control of agricultural non-point source pollution wastewater and a construction method thereof. The ecological purification system includes a control pond, an auxiliary pond, a circulating water pump, an aeration pump and a controller.



21: 2020/06467. 22: 10/15/2020. 43: 5/31/2021

51: B60J

71: RIAAN LUDIK

72: RIAAN LUDIK

33: ZA 31: 2019/04599 32: 2019-07-15

**54: AN ACCESSORY FOR A VEHICLE**

00: -

The invention relates to an accessory for a vehicle, more specifically, but not exclusively, an accessory for a vehicle which includes a support structure having a cover for covering at least part of a load bin of the vehicle wherein the cover is movable between a closed position to provide a closed cover and an open position to expose at least part of the load bin.

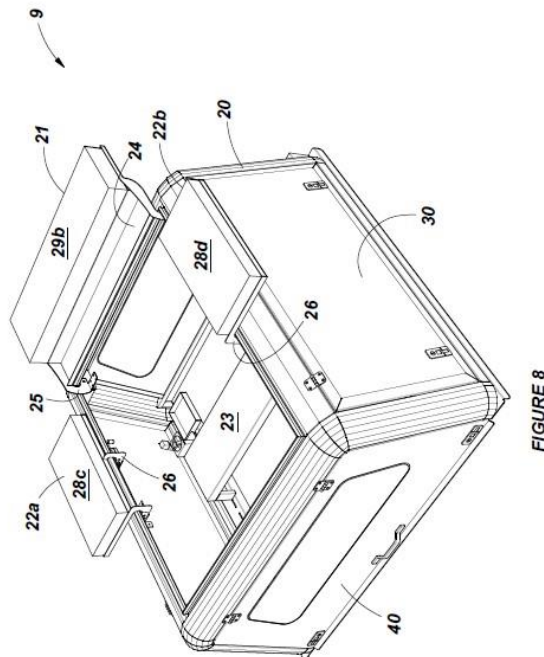


FIGURE 8

21: 2020/06531. 22: 10/21/2020. 43: 6/11/2021

51: F27B

71: Christoph ADAM

72: Christoph ADAM

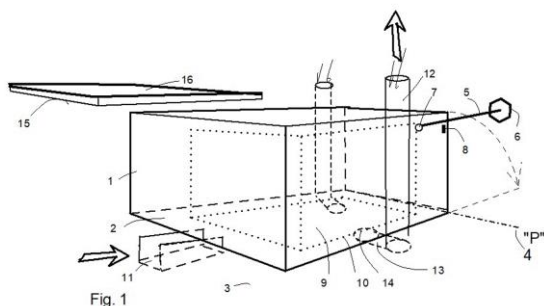
33: KE 31: KE/UM/19/1272 32: 2019-11-08

**54: KILN FROM METAL FOR IMPROVED PRODUCTION OF CHARCOAL**

00: -

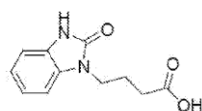
The invention relates to a metal sheet kiln for improved charcoal production of biomass. Compared to the already available round "ring kiln", this metal sheet kiln is designed as a closed box (box-kiln) which is open at the bottom towards the soil surface and the box has the property that the box can be tilted backwards to release for access the content/material inside the box. To facilitate tilting of the box-kiln to one side, counterweights are located on a lever outside the center of gravity of the box. The lever is movable in one direction and can dodge the ground as soon as the lever with the

weight approaches the ground box because the box-kiln was tilted. The material to be charred inside the box is held in place by a frame so that the walls of the box are not touched by it. The preferable rectangular form of the box facilitates to add a removable insulation cover on the box.



21: 2020/06638. 22: 26/10/2020. 43: 6/11/2021  
51: C07C; C07D  
71: RA CHEM PHARMA LIMITED  
72: RAVI KUMAR, Kannasani, MALLIK YADAV, Kasa, SREENU, Mula, BABU, V.V.V  
33: IN 31: 201841016014 32: 2018-04-27  
**54: ONE POT SYNTHESIS OF 4-(1,2-DIHYDRO-2-OXOBENZO[D]IMIDAZOL-3-YL)BUTANOIC ACID, A KEY INTERMEDIATE OF ZILPATEROL**

00: -  
The present invention relates to one pot process for the preparation of 4-(1,2-dihydro-2-oxobenzo[d]imidazol-3-yl)butanoic acid of Formula-I, which is a key intermediate and its use in the preparation of Zilpaterol, which comprises condensation of methyl-4-chloro butyrate with 1-(prop-1-en-2-yl)-1H-benzo[d]imidazol-2(3H)-one in presence of a base and suitable solvent to give corresponding ester derivative, further hydrolyzation and acidification in presence of inorganic solvent to obtain Formula- I.



(Formula-I)

21: 2020/06656. 22: 26/10/2020. 43: 7/8/2021  
51: A61K; A61P  
71: PVP LABS PTE. LTD

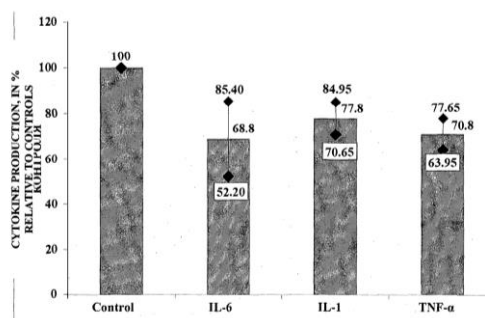
72: CHERTORIZHSKIJ, Evgenij Aleksandrovich, OVCHINNIKOV, Mikhail Vladimirovich, KLEJMENOV, Aleksej Viktorovich

33: RU 31: 2018114273 32: 2018-04-18

**54: ANTIVIRAL IMMUNOTROPIC AGENT FOR THE TREATMENT OF ACUTE RESPIRATORY VIRAL INFECTIONS**

00: -

The invention pertains to medicine, in particular pharmacology, and concerns the application of a nasal medicinal composition containing the hexapeptide tyrosyl- D-alanyl-glycyl-phenylalanyl-leucyl-arginine or its pharmaceutically acceptable salt for the treatment of acute respiratory viral infections (ARVIs), in particular those caused by the influenza vims. What is claimed: application of a nasal medicinal composition containing the hexapeptide tyrosyl-D-alanyl-glycyl-phenylalanyl-leucyl-arginine or its pharmaceutically acceptable salt for the treatment of acute respiratory viral diseases (ARVI).



21: 2020/06789. 22: 10/30/2020. 43: 7/9/2021

51: E21D

71: THASASA (PTY) LTD

72: MAKHETHA, Masasa Ronald

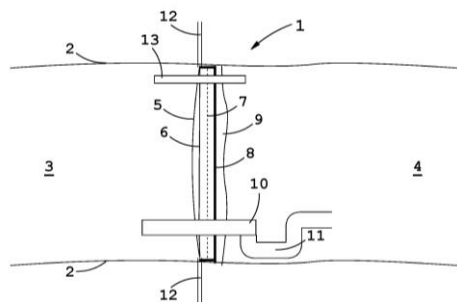
33: ZA 31: 2019/07182 32: 2019-10-31

**54: APPARATUS AND METHOD FOR ENCLOSING A SECTION OF AN UNDERGROUND MINE**

00: -

This invention relates to an apparatus and method for enclosing a mined out section of an underground mine and more specifically, but not exclusively, to such apparatus and method which is used to prevent coal dust and methane explosions in abandoned sections of underground coal mines. In accordance with the invention there is provided an apparatus for enclosing a section of an underground mine

comprising a plurality of anchoring members secured to the peripheral extremities of an opening of the section, a planar mesh with an impervious backing sheet, shaped and sized to correspond to the shape and size of the opening, on an internal side of the opening, at least one additional planar mesh and a number of reinforcing members between the backing sheet and the external side of the opening, and sprayed concrete between the backing member, planar mesh and reinforcing members.



21: 2020/06791. 22: 10/30/2020. 43: 7/8/2021

51: B65B; B65F; E05G; F42B

71: SAIMA SICUREZZA SPA

72: Rinaldo RINALDI

33: IT 31: 102019000022101 32: 2019-11-25

**54: ANTI-EXPLOSION SAFETY DEVICE FOR CONTAINERS FOR VALUABLE MATERIALS**

00: -

Explosion-proof security device (1) for a container (200) for valuable material, the security device (1) comprising an explosion-proof containment barrier (2) shaped to surround three vertical sides (201) of the container (200), a reversible hooking system (3) comprising a first portion (4) firmly fixed to one among the container (200) and the barrier (2) and a second portion (5) firmly fixed to another among the container (200) and the barrier (2), wherein the reversible hooking system (3) can assume a hooking configuration, in which the first (4) and the second portion (5) are mechanically coupled to each other to firmly fix the barrier (2) to the container (200), and an unhooking configuration, in which the first (4) and the second portion (5) are mechanically decoupled from each other to allow a removal of the barrier (2) from the container (200), wherein also when the barrier (2) is removed from the container (200), the

first portion (4) remains firmly fixed to the respective one among the container (200) and the barrier (2) and the second portion (5) remains firmly fixed to the respective another among the container (200) and the barrier (2).

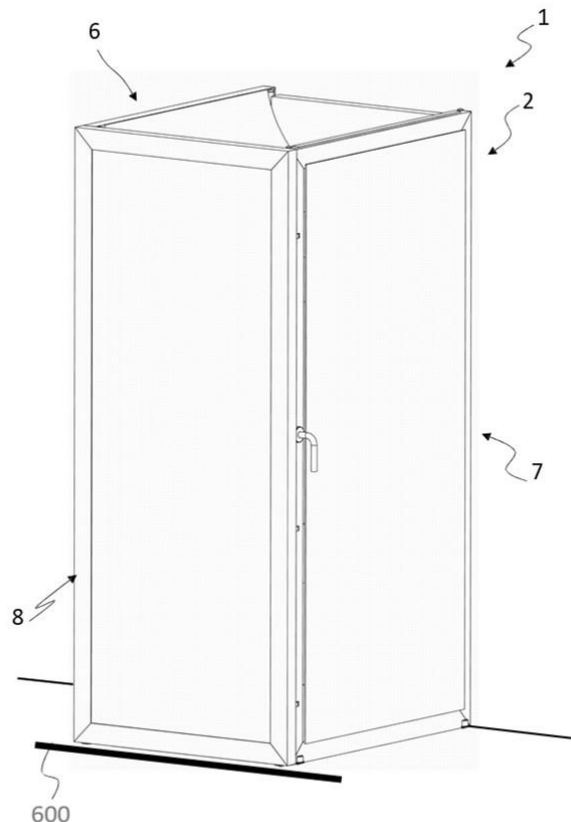


FIG.1

21: 2020/06916. 22: 05/11/2020. 43: 6/11/2021

51: F01D; F02B; F02C

71: GAFFOOR, Feizal Alli

72: GAFFOOR, Feizal Alli

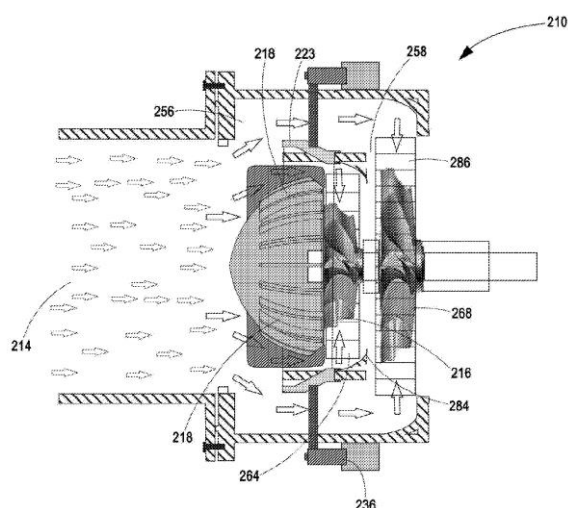
33: US 31: 62/668,857 32: 2018-05-09

**54: TURBOCHARGER**

00: -

This invention relates to a turbocharger (210). More specifically, the invention relates to an axial-entry type turbocharger, where the exhaust gases are directed to meet the turbine wheel at least front-on, having a variable volume for controlling pressure, allowing for a substantially uniform pressure and uniform velocity to act simultaneously on and around the turbine wheel, while enabling the volume of the turbocharger to be adjusted under predetermined set pressure conditions. The turbocharge includes: a turbine housing defining a substantially axial primary

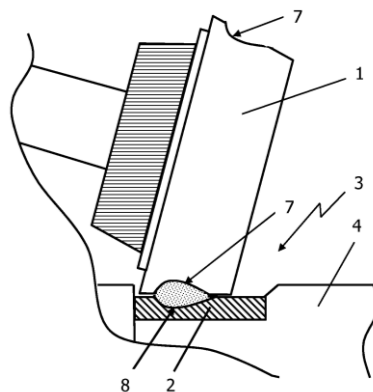
flow duct, a primary turbine wheel (216) mounted along such primary flow duct (214), and a diverter (218) for diverting flow passing thereover into a primary annular flow path directed to impinge the primary turbine wheel (216). The turbine housing of the turbocharger defines a secondary flow duct (222) for directing some flow to: (i) impinge the primary turbine wheel (216); and / or (ii) bypass the primary turbine wheel (216). A secondary flow duct gate (223) controls flow through the secondary flow duct (222) and is movable between a closed position, wherein under low pressure conditions flow is restricted from flowing through the secondary flow duct (222), and an open position, wherein flow through the secondary flow duct (222) is enabled such that operative flow passes through both the primary and the secondary flow ducts (216, 222) under high pressure conditions. The turbocharger further includes at least one compressor coupled to the primary turbine wheel (216) via a primary transmission thereby to transmit drive from the primary turbine wheel (216) to the compressor.



21: 2020/07023. 22: 11/11/2020. 43: 6/11/2021  
51: B02C  
71: PRIHODA, Helmut  
72: PRIHODA, Helmut  
33: DE 31: 10 2018 111 621.7 32: 2018-05-15  
**54: METHOD FOR IMPROVING THE PRODUCTIVITY OF GRINDING PLANTS**  
00: -

The present invention relates to a method for improving the productivity of grinding plants, wherein, after the optimum wear geometry of the

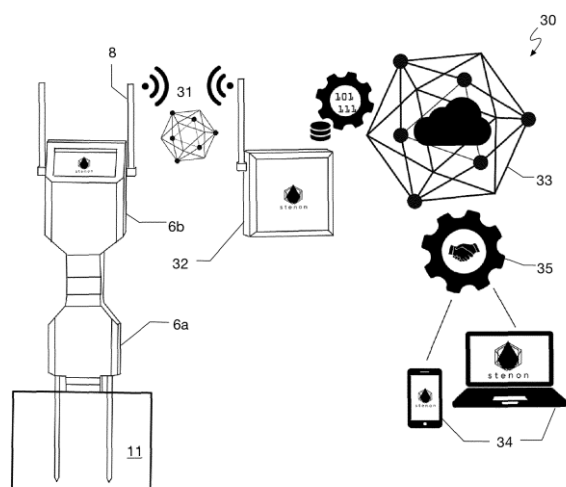
grinding units has been set, the optimum wear geometry is preserved by applying a thin wear protection layer to the surface of the grinding units by conventional operation of the grinding plant.



21: 2020/07085. 22: 13/11/2020. 43: 6/10/2021  
51: G01N  
71: STENON GMBH  
72: GRABBERT, Niels, ROTH, Dominic  
33: DE 31: 10 2018 111 336.6 32: 2018-05-11  
**54: DEVICES AND METHODS FOR IN SITU SOIL ANALYSIS**  
00: -

The invention relates to the field of soil analysis, in particular the technical analysis of agricultural or horticultural soils. In particular, the invention relates to a sensor device for in situ soil analysis, to a method for in situ soil analysis, and to a device set up for carrying out the soil analysis method, wherein said device, together and in interaction with one or more of said sensor devices, represents a system for in situ soil analysis. The sensor device has a sensor assembly comprising one or more sensors which are configured individually or cumulatively for the simultaneous in situ measurement of at least two of the following soil properties of a soil to be analyzed and for providing corresponding respective measurement data: (a) impedance spectrum, (b) temperature, (c) absorption spectrum NIR-VIS-UV in a spectral range from NIR (near infrared spectral range) to UV (ultraviolet spectral range), and (d) acidic or basic character, in particular pH value. In this case, the distance between in each case two of the sensors of the sensor assembly, which is defined with respect to the respective measurement variable sensors, does not exceed a value of 10 cm.





21: 2020/07150. 22: 11/17/2020. 43: 6/10/2021  
51: F24F

71: Hendrik Jacobus Woest

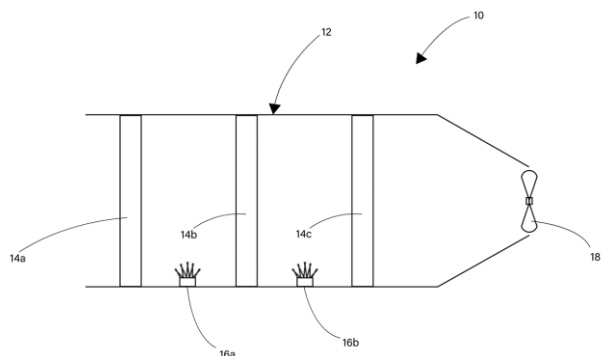
72: Hendrik Jacobus Woest

33: ZA 31: 2020/06100 32: 2020-10-02

#### **54: AIR HEATING AND HUMIDIFYING SYSTEM**

00: -

An air heating and humidifying system includes: (i) a conduit defining an inlet and an outlet; (ii) first, second and third heat exchangers spaced from each other axially along the conduit, for heating air within the conduit; (iii) a first ultrasonic humidifier disposed within the conduit between the first and second heat exchanger; (iv) a second ultrasonic humidifier disposed within the conduit between the second and third heat exchanger; and (v) a fan that, in use, directs air: (a) into the conduit inlet; (b) along the conduit, sequentially past: the first heat exchanger; the first ultrasonic humidifier; the second heat exchanger, the second ultrasonic humidifier and the third heat exchanger; and (c) out of the conduit outlet.



21: 2020/07180. 22: 11/16/2020. 43: 6/23/2021

51: G09B

71: Wuhan University of Science and Technology

72: HUANG, Ao, ZOU, Yongshun, GU, Huazhi

33: CN 31: 201911265274.2 32: 2019-12-11

#### **54: METHOD FOR SIMULATING INTRAPLATE VOLCANISM**

00: -

The disclosure relates to a method for simulating intraplate volcanism. A technical solution is: mixing 47-60 wt% of calcium oxide powder, 35 wt% of alumina powder and 5-18 wt% of silica powder uniformly to obtain a mixed powder; putting the mixed powder in a corundum crucible, placing the crucible in a high-temperature furnace provided with an observation window outside which an industrial camera with a depression angle of 30-45° is provided, heating to 1,500-1,900°C at a rate of 1-30°C/min under an air atmosphere at a normal pressure, holding for 0.5-5 h; recording intraplate volcanism formed by upwelling of a melt of the mixed powder along an inner wall of the crucible during the holding with the industrial camera to obtain a simulated process of the intraplate volcanism.



21: 2020/07249. 22: 11/20/2020. 43: 6/11/2021

51: F25D; H02B; H05K

71: WEISS, Colin Shane

72: Colin Shane WEISS, SWARTS, Raymond

33: ZA 31: 2019/08127 32: 2019-12-09

#### **54: EMERGENCY POWER SUPPLY AND HOUSING THEREFOR**

00: -

THIS invention relates to a flush mountable emergency power supply housing comprising at



least a first storage compartment for housing electrical equipment therein, a front side of the housing defining an access opening into the first storage compartment, a door for opening and closing the access opening and finishing edges that extend laterally beyond sidewalls and end walls of the housing for overlapping edges of a wall cavity into which the housing is installable thereby to hide the wall cavity from view. For cooling at least the first storage compartment, the housing includes an inlet port with an inlet fan for drawing airflow thereinto, and an outlet port with an outlet fan for expelling airflow outwardly therefrom. It will be appreciated that the invention extends to a flush mountable emergency power supply including the housing, electrical equipment in the form of an inverter housed in the first storage compartment thereof and a distribution board with a plurality of circuit breakers for the control of power supply to a building.

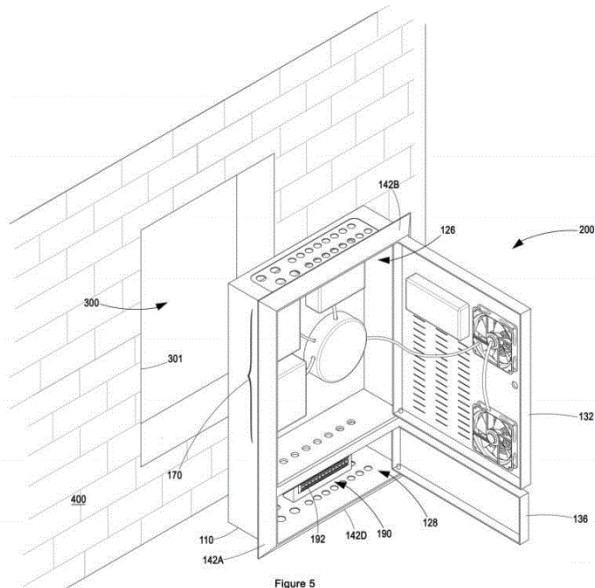


Figure 5

extends from the vehicle's first side wall towards an opposed second side wall of the vehicle's load bay, over the vehicle's load bay; and (b) an open condition, in which the first side panel extends substantially operatively upwards from the first side wall of the vehicle's load bay; (ii) a second side panel hinged to the second side wall of the vehicle's load bay and movable between: (a) a closed condition, in which the second side panel extends from the vehicle's second side wall towards the opposed first side wall of the vehicle's load bay, over the vehicle's load bay; and (b) an open condition, in which the second side panel extends substantially operatively upwards from the second side wall of the vehicle's load bay; (iii) a roll bar extending along the operative rear of the vehicle's cabin; (iv) a first wing hinged at its base to the first side wall of the vehicle's load bay; (v) a second wing hinged at its base to the second side wall of the vehicle's load bay, the first and second wings being movable between: (a) a stowed condition, in which the first and second wings converge from their hinged bases towards each other, along operative opposed sides of the roll bar; and (b) an extended condition, in which the first and second wings extend from their hinged bases: substantially parallel to each other; and diverging from the operative opposed sides of the roll bar; (vi) locking means for: (a) releasably locking the first and second wings, when in the extended condition, against rotation towards the stowed condition; and (b) releasably locking the first and second wings, when in the stowed condition, against rotation towards the extended condition; and (vii) means for releasably securing: (a) the first side panel to the first wing when: the first side panel is in the open condition; and the first wing is locked via the locking means in the extended condition; and (b) the second side panel to the second wing when: the second side panel is in the open condition; and the second wing is locked via the locking means in the extended condition.

21: 2020/07442. 22: 11/30/2020. 43: 6/11/2021  
51: B60P

71: William Pearce

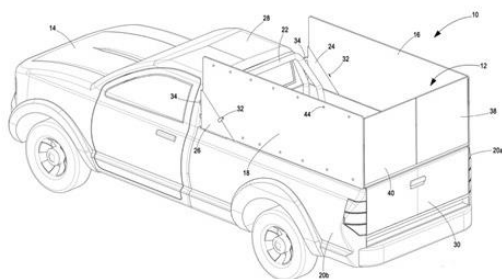
72: William Pearce

33: ZA 31: 2019/08286 32: 2019-12-12

#### **54: VEHICLE LOAD BAY COVER**

00: -

A vehicle load bay cover includes: (i) a first side panel hinged to a first side wall of a vehicle's load bay, and movable between: (a) a closed condition, in which the first side panel

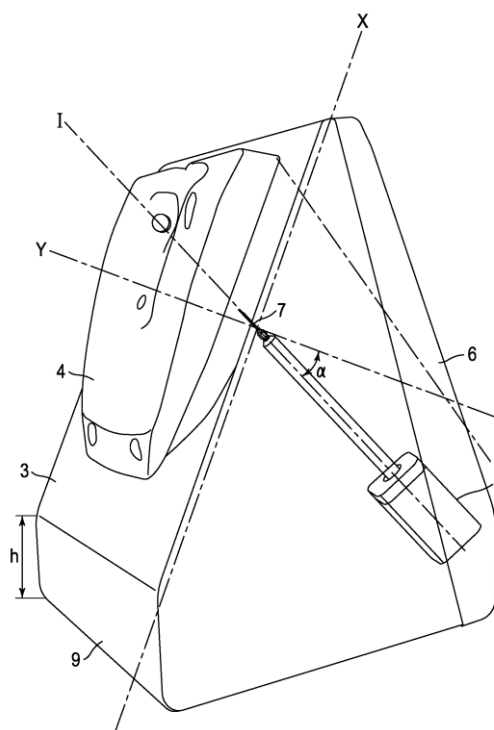


21: 2020/07480. 22: 4/18/2020. 43: 6/11/2021  
 51: D21D; D21G; D21H  
 71: HAINAN JINHAI PULP & PAPER CO., LTD.  
 72: XIE, Biai, LIANG, Changliang, SHAO, Zhitao  
 33: CN 31: 201911041585.0 32: 2019-10-30  
**54: METHOD FOR MAKING OF COATED TWO SIDE ART PAPER WITH HIGH BULK AND HIGH GLOSS**

00: -  
 The invention discloses a method for papermaking of a coated two side art paper with high bulk and high gloss. In the present invention, through a selection of a pulp, a northern bleached softwood kraft pulp, a bleached hardwood kraft pulp and 100% an alkaline peroxide mechanical pulp with high bulk are adopted, and the weight ratio of each pulp is strictly controlled, furthermore, a specific coating formula is used, and based on the papermaking of the base paper with and the single-layer and the gap former machine, a unique MSP coating and a blade coating process are adopted for a multi-layer coating on a high-speed paper machine with a speed up to 1300 m/min, parameters such as the blade pressure and the blade angle of each a coating head are adjusted such that the final papermaking paper has a basis weight of about 170 g/m<sup>2</sup>, the bulk more than 1 cm<sup>3</sup>/g, the gloss of 60%-70%, smoothness more than 600 s and bending stiffness more than 2.4 mNm.

21: 2020/07536. 22: 03/12/2020. 43: 6/11/2021  
 51: A61D  
 71: DESVAC  
 72: BOYER, William, FONTENY, Erwan, GONZALEZ, Carlos, VEYRENT, Stephane  
 33: US 31: 62/685,698 32: 2018-06-15  
**54: SYSTEM AND METHOD FOR INJECTING POULTRY**

00: -  
 An injector, injection system, and methods for injecting products to a fowl, in which the injector includes a retention member with at least one hole formed in the retention member, a retention member supporting surface supporting the retention member, and injection needle being movable through the hole. A longitudinal axis of the injection needle and an axis perpendicular to the retention member supporting surface form a vertical angle between 15° and 45°.

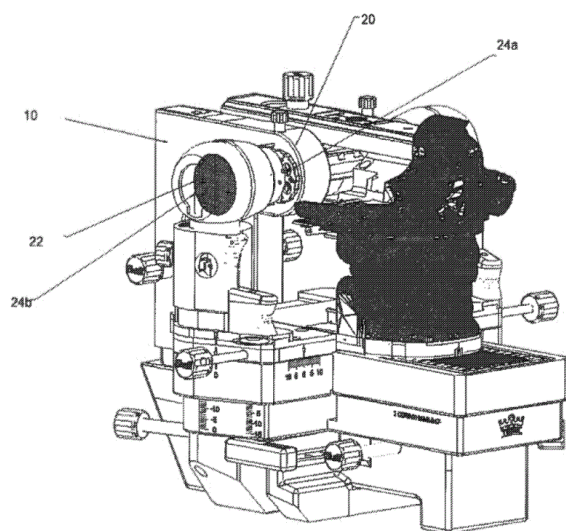


**FIG. 2**

21: 2020/07597. 22: 07/12/2020. 43: 6/11/2021  
 51: A61B; A61C  
 71: DU PREEZ, Lourens Russel  
 72: DU PREEZ, Lourens Russel  
 33: ZA 31: 2018/04108 32: 2018-06-20  
**54: METHOD FOR DETERMINING TREATMENT OF ORTHOPAEDIC IMBALANCES, AND APPARATUS THEREFOR**

00: -  
 A method for determining treatment of orthopedic imbalances including the steps of: mounting upper and lower jaw dentition models (14, 18) to an articulator(10); setting the position of the models to replicate the relative positions of the jaw dentitions of

a patient; determining from an x-ray or scan: (i) the outline of the patient's condylar head and (ii) the pattern and depth of the patient's fossae; displaying a reproduction of the outline of the patient's condylar head; displaying a reproduction of the pattern and depth of the patient's fossae and eminance; adjusting the relative position of the models to remedy orthopedic imbalances, which adjustment causes relative movement of: (i) the display of the condylar head and (ii) the display of the pattern and depth of the fossae and eminance; and recording adjustments made to the relative position of the fossae / eminence and condylar head and the upper and lower jaw dentition models.



21: 2020/07634. 22: 12/8/2020. 43: 6/10/2021  
51: C08J; C08K; C08L

71: Qilu University of Technology

72: WANG, Daiqi, WU, Chaojun

33: CN 31: 202010274033.0 32: 2020-04-09

#### **54: METHOD FOR PREPARING FOAMED BUFFER MATERIAL FROM WASTE PAPER RECYCLING SLUDGE**

00: -

The disclosure belongs to the technical field of packaging materials, and relates to a method for preparing a foamed buffer material from waste paper sludge. Specifically, the method includes the following steps: using waste paper sludge as a main fiber raw material and old newspaper pulps, adding a dispersant to lower viscosity of materials, using cationic corn starch with a high degree of substitution, polyvinyl acetate emulsion and vital wheat gluten as an adhesive, mixing fully with a

foaming agent, a crosslinking agent, a lubricant and a release agent to form a slurry, pouring into a mold, foaming at 30 W/g for 2 min in a microwave oven, maintaining at 20 W/g for 2 min after dryness of the slurry reached 60%, and drying at 10 W/g to dryness of material of 93-95%. Demoulding is carried out after the drying is completed to obtain a foamed buffer material.



21: 2020/07922. 22: 12/18/2020. 43: 7/7/2021  
51: C12N

71: THE FIRST AFFILIATED HOSPITAL OF SUN YAT-SEN UNIVERSITY, SUN YAT-SEN UNIVERSITY

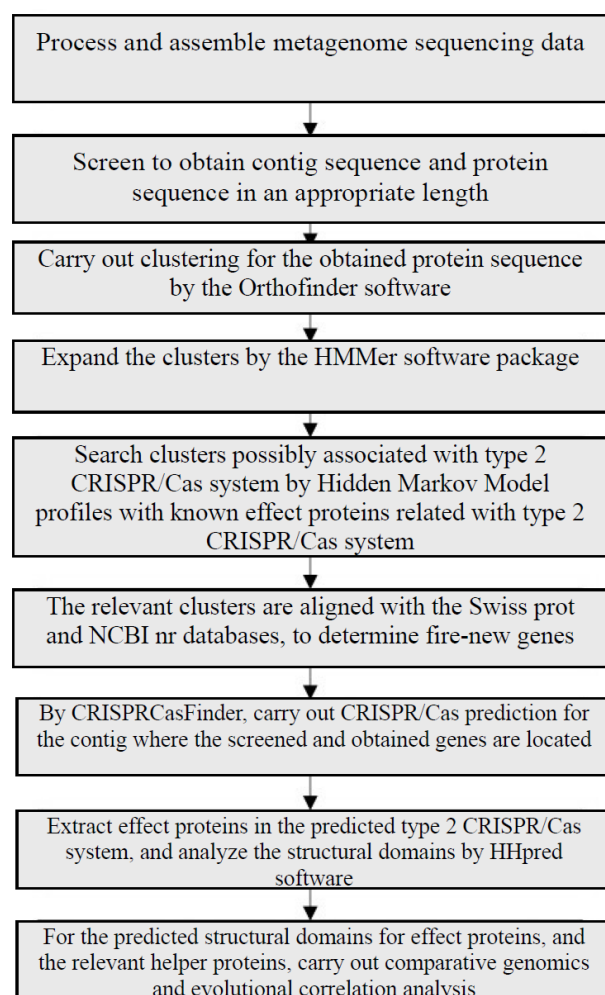
72: HU, Zheng, CUI, Zifeng, TIAN, Rui, JIN, Zhuang, HUANG, Zhaoyue, LI, Mengyuan

#### **54: A TYPE 2 HOMOLOGOUS CRISPR/CAS9 GENE EDITING SYSTEM AND ITS CONSTRUCTION METHOD**

00: -

The Invention is involved with a type 2 homologous CRISPR/Cas9 gene editing system and its construction method, and belongs to the gene editing technology field. The Invention provides the construction method for a type 2 homologous CRISPR/Cas9 gene editing system. By deep analysis on the metagenome data obtained from different environments, a long DNA sequence ( $\geq 4000$ ) draft is obtained by assembly of short read

segment sequences (100-300), and new method for type 2 homologous CRISPR/Cas9 gene editing system are mined from the long DNA sequence. The contents to be predicted by the method include: Cas9 protein, helper protein associated with effects of Cas9 protein, helper sequence with effects of Cas9 protein, and critical sequence associated with effects of Cas9 protein. The construction method is easy to design and operate, with high construction efficiency and high universality, and can decrease construction cost; the constructed type 2 homologous CRISPR/Cas9 gene editing system may be used to transform targeted genome, and can modify exactly gene, to realize huge gene editing and modification function.



21: 2020/07923. 22: 12/18/2020. 43: 7/7/2021  
51: G01N

71: THE FIRST AFFILIATED HOSPITAL OF SUN YAT-SEN UNIVERSITY, SUN YAT-SEN UNIVERSITY

72: HU, Zheng, TIAN, Rui, JIN, Zhuang, CUI, Zifeng

#### **54: A KIT TO DETECT CERVICAL CANCER CAUSED BY HPV INFECTION**

00: -

The Invention provide a kit to detect cervical cancer caused by HPV Infection, containing Reagent Subgroups 1 and 2; the described Reagent Subgroups 1 and 2 use reagents to test Spondin 1 and p16INK4a levels as biomarkers for screening and diagnosis of cervical cancer caused by HPV infection, mainly containing capture antibody, test antibody, chemiluminescence substrate AMPPD, solvent, and wash concentrate; the described test antibody is prepared by adding alkaline phosphatase to PBS, then adding glutaraldehyde, then adding mouse-anti-human monoclonal antibody to test Spondin 1 or p16INK4a, and mixing well. Samples that may be tested include blood, serum, plasma, lymph, cerebrospinal fluid, ascites, urine, and tissue biopsy material obtained from the described object. With sensitivity and specificity increased significantly, the diagnostic method and kit for cervical cancer, provided by the Invention, can decrease greatly pseudopositive rate, and may be used for early screening of cervical cancer.

21: 2020/07924. 22: 12/18/2020. 43: 7/7/2021

51: C12Q

71: THE FIRST AFFILIATED HOSPITAL OF SUN YAT-SEN UNIVERSITY, SUN YAT-SEN UNIVERSITY

72: HU, Zheng, TIAN, Rui, JIN, Zhuang, CUI, Zifeng

#### **54: HPV TEST KIT BASED ON CRISPR-CAS12A AND G-QUADRUPLEX-HEMIN**

00: -

The Invention belongs to the field of bioassay technology, and is specifically involved with a HPV test kit based on CRISPR-Cas12a and G-quadruplex-hemin, including the following components: DNA extract, positive control, negative control, RPA reaction solution, PS2.M/Hemin solution, Cas12a/gRNA complex solution, and test solution. To test HPV, it is rapid and easy to operate, with high specificity in amplification, and is very suitable for rapid and timely testing of RNA.



21: 2020/07927. 22: 18/12/2020. 43: 6/10/2021

51: D03D; F16G

71: FP BUSINESS INVEST

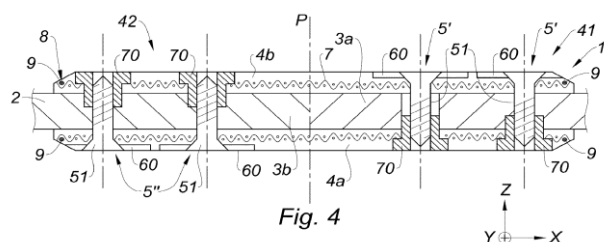
72: TAVERNIER, Bernard

33: FR 31: 1855731 32: 2018-06-26

**54: JUNCTION DEVICE FOR CONVEYOR BELT**

00: -

The invention relates to a junction device (1) for a conveyor belt (2), intended for connecting two ends (3) of at least one longitudinal conveyor belt (2), the junction device (1) comprising at least two junction plates (4) configured to each cover a separate side of the ends (3) of the conveyor belt (2) so that said conveyor belt (2) is arranged between the two junction plates (4) in an assembled operational position, the junction plates (4) being secured together by attachment means (5) arranged to pass through a junction plate (4), one of the ends (3) of the conveyor belt (2) and then the other junction plate (4), respectively, each of the junction plates (4) being made of a flexible, resilient material (6) and provided with a reinforcement (7), said reinforcement (7) being formed by at least one textile layer, the junction device (1) being characterized in that said reinforcement (7) is delimited longitudinally by transverse edges (8), the reinforcement (7) extending transversely relative to said conveyor belt (2) in assembled position, said transverse edges (8) each having an unweaving reinforcement (9) to prevent the unweaving of the reinforcement (7) during the use of the junction device (1).



21: 2021/00501. 22: 1/25/2021. 43: 7/2/2021

51: F21S

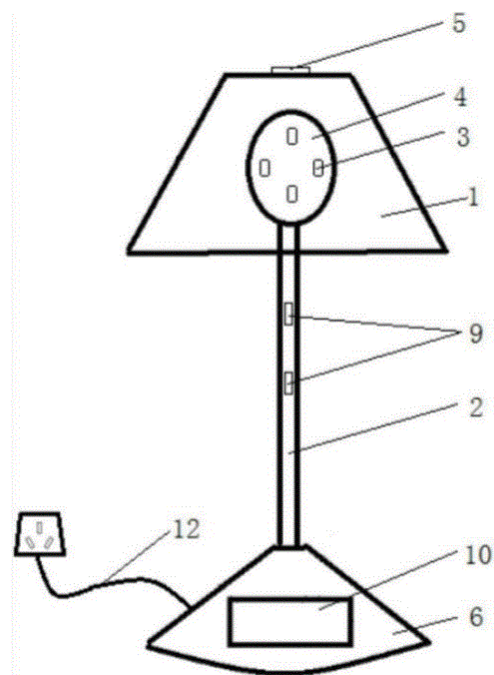
71: Yunnan Minzu University

72: Chen Junhua, Huang Lidong, Xiong Lianglin, Jiang Shaoping, Chen Kangyue

**54: AN INTELLIGENT LIGHTING DOWNLIGHT AND ITS CONTROL METHOD**

00: -

The invention relates to an intelligent lighting downlight, which comprises a lampshade, a supporting column, a base, more than one LED lamp bead and a substrate for fixing the LED lamp bead, wherein a main control processor and a memory module are arranged in the inner space of the base. The downlight is also provided with an illumination sensor, a sound sensor, a touch screen and a Bluetooth module, which are respectively electrically connected with the main control processor. The main control processor can automatically adjust the luminous brightness and chromaticity of LED beads according to the data collected by the illumination sensor and the sound sensor. The user can remotely control the downlight by Bluetooth module, remotely adjust the brightness as well as the color of light, and turn on or off LED lamp beads. The intelligent lighting downlight has a simple structure, it can automatically adjust the luminous brightness and chromaticity according to the current environmental conditions, supports remote control with a high degree of intelligence, which is beneficial to improving the user experience.



21: 2021/00539. 22: 1/26/2021. 43: 6/23/2021

51: C09D; E21C

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY



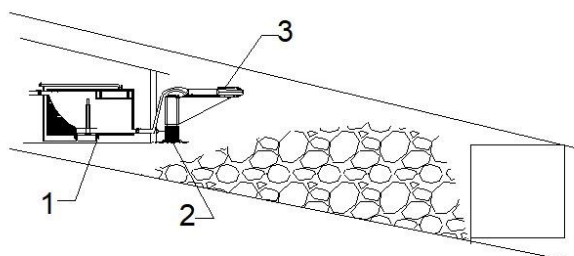
72: CHEN, DENGHONG, YUAN, YONGQIANG, GONG, PENG

33: CN 31: 202011137660.6 32: 2020-10-22

**54: COMPLETE SET OF DEVICE AND METHOD FOR FILLING PASTE-LIKE MATERIALS OF COAL-BASED SOLID WASTES IN FULLY MECHANIZED MINING FACE WITH LARGE DIP ANGLE**

00: -

The present invention relates to a complete set of device and method for filling paste-like materials of coal-based solid wastes in a fully mechanized mining face with a large dip angle. Ground coal-based solid wastes are processed into paste-like materials and then are transported to goafs behind the fully mechanized mining face with a large dip angle; a paste centrally-pressurizing and transporting box is arranged in front of a face-end hydraulic support; a large-dip-angle conveying column and a pipe orifice wind deformation device are arranged behind the face-end hydraulic support; and each device plays roles of providing a secondary pressure for the paste-like materials to fully immerse the paste-like materials into the goafs and controlling the angle and time when the paste-like materials are filled.



21: 2021/01536. 22: 05/03/2021. 43: 5/6/2021

51: C05B; C05F

71: NANJING TECH UNIVERSITY

72: GAO, NAN, YING, HANJIE, ZHU, ZHIYU, CHEN, XIAOCHUN, CHEN, YONG, LIU, DONG, NIU, HUANQING, WU, JINGLAN, ZHU, CHENJIE

33: CN 31: 201810901115.6 32: 2018-08-08

**54: HIGH-ENERGY PHOSPHORYL COMPOUND FERTILIZER AND APPLICATION THEREOF**

00: -

A high-energy phosphoryl compound fertilizer, which comprises a high-energy phosphoryl compound; the high-energy phosphoryl compound is any one or a combination of a few from among the following eight substances: 6-fructose phosphate or a salt thereof,

6-phosphate glucose or a salt thereof, fructose-2,6-diphosphate or a salt thereof, fructose-1,6-diphosphate or a salt thereof, phosphocreatine or a salt thereof, FAD or a salt thereof, NADH or a salt thereof, and NADPH or a salt thereof. The high-energy phosphoryl compound fertilizer is suitable for plant seed soaking, seed mixing, leaf spraying, root irrigation, flushing, spraying, dripping and other manners for use; the high-energy phosphoryl compound fertilizer is non-toxic, has no hormones, no residue, may balance plant growth and development, and promotes plant photosynthesis and metabolism; the high-energy phosphoryl compound fertilizer may delay plant aging, improve quality and increase yield, and has certain drought, cold and disease resistance. Repeated application of the described high-energy phosphoryl compound fertilizer may reduce the amount of fertilizer applied by 10-40%, and crop yield may be increased by 5-60%.

21: 2021/02376. 22: 12/04/2021. 43: 6/23/2021

51: B64C

71: Binzhou University

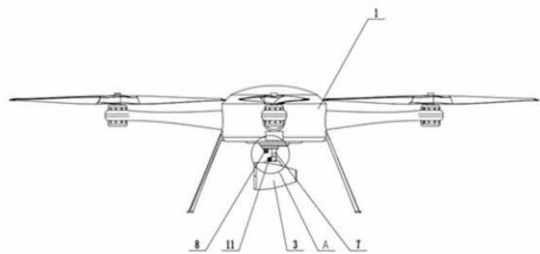
72: ZHANG, Xin

33: CN 31: 201911170563.4 32: 2019-11-26

**54: AIR-JET STEERING DRONE**

00: -

The present disclosure relates to drones, and provides an air-jet steering drone. The air-jet steering drone including a drone body. A propulsion duct is provided at a bottom of the drone body, and a center of gravity of the propulsion duct is directly below a center of gravity of the drone. A diameter of a front of the propulsion duct is larger than a diameter of a rear of the propulsion duct. A front ducted motor is provided in the front of the propulsion duct, and a rear ducted motor is provided in the rear of the propulsion duct. A rotary shaft is provided between the propulsion duct and a bottom of the drone; the bottom of the drone is provided with a steering gearbox and a steering motor which is configured to drive the rotary shaft. In the present invention, a propulsion duct is added, and the forward and backward movements and steering in the non-emergency state of the drone are driven by the ducted motor. This greatly increases the flying speed of the drone and makes the multi-rotor drone steer in various ways.



21: 2021/02485. 22: 4/15/2021. 43: 6/30/2021  
51: A62B; H05B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

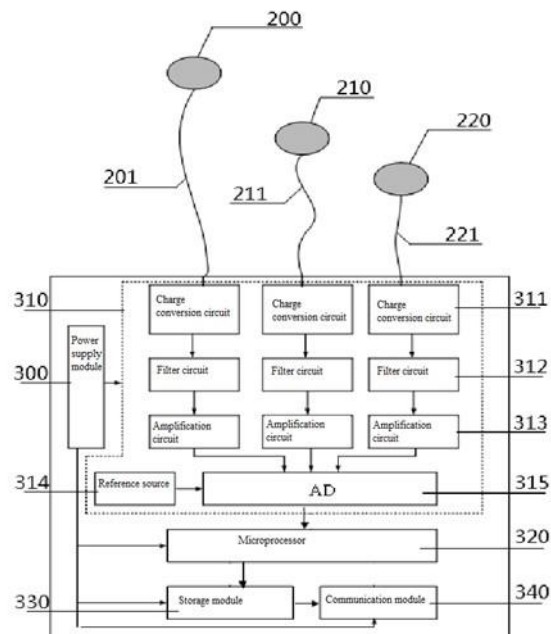
72: LIANG, ZHE, ZHOU, MENGREN, CAO, ZHENGUAN, LING, LIUYI, HU, FENG

33: CN 31: 202110084130.8 32: 2021-01-21

**54: LAMP STRAP FOR DYNAMICALLY MEASURING RESPIRATORY PHYSIOLOGICAL PARAMETERS AND OPERATING METHOD THEREOF**

00: -

The present invention discloses a lamp strap for dynamically measuring respiratory physiological parameters, which includes a lamp strap body and a lamp strap head. The lamp strap head is provided with a sensor probe. A detecting apparatus is arranged in the lamp strap head. The detecting apparatus includes a power supply module, a respiratory signal acquisition module, a microprocessor module, a storage module and a communication module. The respiratory signal acquisition module converts a signal measured by the sensor probe to a digital signal. The microprocessor module reads a respiratory signal converted by an AD converter and performs data processing for the respiratory signal. The storage module stores the respiratory signal denoised by the microprocessor module. The communication module transmits data in the storage module to a specified device.



21: 2021/02571. 22: 19/04/2021. 43: 6/23/2021  
51: H02J

71: BINZHOU UNIVERSITY

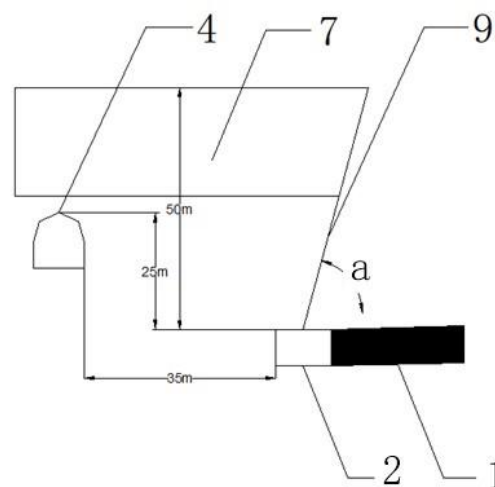
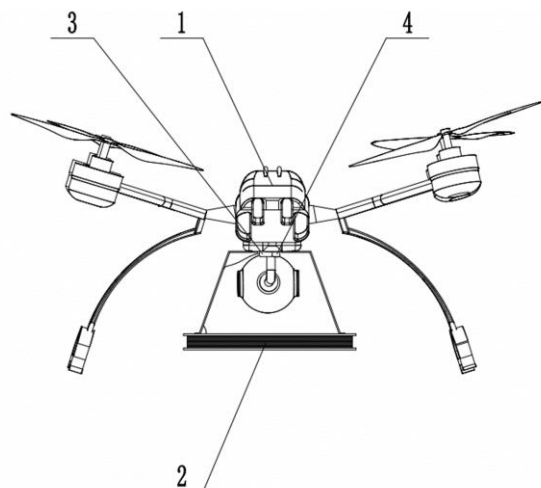
72: MA, Guoli, SHI, Lingxian, ZHANG, Xin

33: CN 31: CN201910986669.5 32: 2019-10-15

**54: WIRELESSLY CHARGED PATROL UAV, CHARGING DEVICE, AND CHARGING METHOD**

00: -

The present disclosure provides a wirelessly charged patrol UAV, a charging device, and a charging method, mainly to the field of UAVs. A charging device for a wirelessly charged patrol UAV, including a UAV body, wherein an induction coil, a rectifier, and a one-way charger are disposed at the bottom of the UAV body, two ends of the induction coil are connected to a wire of an input end of the rectifier, an output end of the rectifier is connected to a wire of a battery charging end of the UAV body, and the one-way charger is connected in series between the rectifier and a battery. A wirelessly charged patrol UAV, provided with the charging device. The present invention has the advantages that enables the UAV to be charged while flying to patrol a line, and greatly improves the endurance of the UAV without affecting the efficiency of patrol.



21: 2021/02864. 22: 4/29/2021. 43: 6/23/2021  
51: G06F; G06Q

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: CHANG, JUCAI, PANG, DONGDONG, LI, CHUANMING, LUO, YONG, SHI, WENBAO, MA, HAIFENG, YIN, ZHIQIANG, XIONG, TENGGEN, LIU, NAN, DING, YU

33: CN 31: 202011463129.8 32: 2020-12-11

**54: BOREHOLE BLAST ROOF-CUTTING AND PRESSURE-RELIEVING MODEL FOR GOB-SIDE ROADWAYS IN DEEP MINES AND METHOD FOR DETERMINING PARAMETERS**

00: -

Disclosed is a borehole blast roof-cutting and pressure-relieving model for gob-side roadways in deep mines and a method for determining parameters. The model comprises a coal seam, a haulage roadway, overlying strata at the top of the coal seam, a far-upper roadway, far-upper overlying strata of the coal seam, strata movement angle marking lines, overlying strata of the far-upper roadway, floor lines of far-upper strata, and boreholes. An advanced method is adopted on account of the model, to break a critical overlying stratum of the protected far-upper roadway, reduce the transfer of stress to a roof of the far-upper roadway from the uncaved overlying strata in a goaf, and avoid that the uncaved far-upper strata are rotated and sunk to rotate and stretch the critical overlying stratum of the protected far-upper roadway due to the caving of the overlying strata of the coal seam caused by coal seam mining.

21: 2021/03048. 22: 05/05/2021. 43: 5/11/2021  
51: C05D; C05G

71: SAWANT, Arun Vitthal, PUTHENVEETIL KUNJUKRISHNA MENON, Ramdas

72: SAWANT, Arun Vitthal, PUTHENVEETIL KUNJUKRISHNA MENON, Ramdas

33: IB 31: PCT/IB2018/055225 32: 2018-07-14

33: IN 31: 201921002743 32: 2019-01-23

**54: NOVEL AGRICULTURAL COMPOSITION**  
00: -

The invention relates to an agricultural composition for soil application comprising elemental sulphur, at least one amino acid, their polymers, salts or derivatives or mixtures thereof and at least one agrochemical excipient. The composition comprises particles in the size range of 0.1-20 microns. The invention relates to water dispersible granular composition for soil application comprising 0.1%-70% of at least one amino acid, their polymers, salts or derivatives or mixtures thereof and 20%-99% of elemental sulphur with 0.1-60% of at least one surfactant. The invention further relates to liquid suspension composition for soil application comprising 0.1%-70% of at least one amino acid, their polymers, salts or derivatives or mixtures thereof and 1%-65% elemental sulphur, 0.01-5% of at least one structuring agent. The agricultural composition further includes at least one micronutrient, their salts, derivatives, or mixtures thereof or plant growth promoters. The invention further relates to a process of preparing the composition.

21: 2021/03155. 22: 5/10/2021. 43: 6/30/2021  
51: B03D

71: BGRIMM TECHNOLOGY GROUP  
72: ZHANG, XINGRONG, LU, LIANG, ZHU,  
YANGGE, ZHAO, ZHIQIANG, LUO, SIGANG, HAN,  
LONG, XIONG, Wei

33: CN 31: 202110278558.6 32: 2021-03-16

# **54: SULFIDE ORE FLOTATION COLLECTOR, APPLICATION THEREOF AND SULFIDE ORE FLOTATION METHOD**

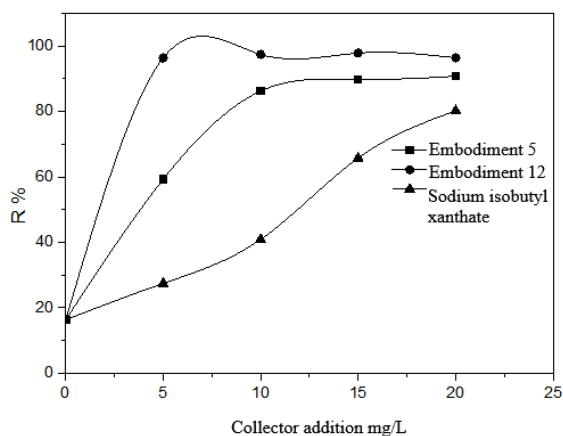
00: -

The present invention provides a sulfide ore flotation collector, an application thereof and a sulfide ore flotation method. A sulfide ore flotation collector,



having the following structural formula:

wherein R is selected from alkylene, aromatic ring, heterocyclic group or C2-C6 alkyl; R1 and R2 are independently selected from H or C2-C12 alkyl; A is selected from C, N, O, S or P; and X1 and X2 are independently selected from groups containing carbon-sulfide bond structures. A sulfide ore flotation method, comprising the following steps: using the sulfide ore flotation collector to carry out flotation on sulfide ore raw material. An application of the sulfide ore flotation collector, which is used for flotation of sulfide ore containing one or more of Cu, Pb, Zn, Fe, Au and Ag, or used for deep desulfurization of iron ore concentrate. The sulfide ore flotation collector provided by the present application has strong ore collecting capacity and high selective collecting performance for useful minerals.



21: 2021/03242. 22: 13/05/2021. 43: 6/24/2021  
51: A61M; B65D

71: THALER, Stephen L.

72: DABUS, The invention was autonomously generated by an artificial intelligence

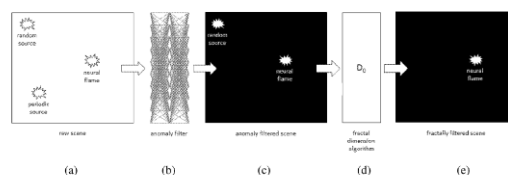
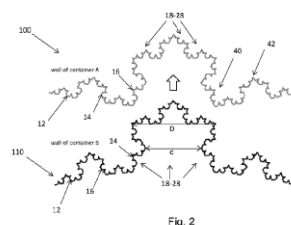
33: EP 31: 18275163.6 32: 2018-10-17

33: EP 31: 18275174.3 32: 2018-11-07

# **54: FOOD CONTAINER AND DEVICES AND METHODS FOR ATTRACTING ENHANCED ATTENTION**

00: -

A container (10) for use, for example, for beverages, has a wall (12) with an external surface (14) and an internal wall (16) of substantially uniform thickness. The wall (12) has a fractal profile which provides a series of fractal elements (18-28) on the interior and exterior surfaces (14-16), forming pits (40) and bulges (42) in the profile of the wall and in which a pit (40) as seen from one of the exterior or interior surfaces (12, 14) forms a bulge (42) on the other of the exterior or interior surfaces (12, 14). The profile enables multiple containers to be coupled together by inter-engagement of pits and bulges on corresponding ones of the containers. The profile also improves grip, as well as heat transfer into and out of the container. Devices for attracting enhanced attention include: an input signal of a lacunar pulse train having characteristics of a pulse frequency of approximately four Hertz and a pulse-train fractal dimension of approximately one-half; and at least one controllable light source configured to be pulsatingly operated by the input signal; wherein a neural flame emitted from at least one controllable light source as a result of the lacunar pulse train is adapted to serve as a uniquely-identifiable signal beacon over potentially-competing attention sources by selectively triggering human or artificial anomaly-detection filters, thereby attracting enhanced attention.



21: 2021/03306. 22: 5/14/2021. 43: 6/24/2021

51: C12N; C12Q

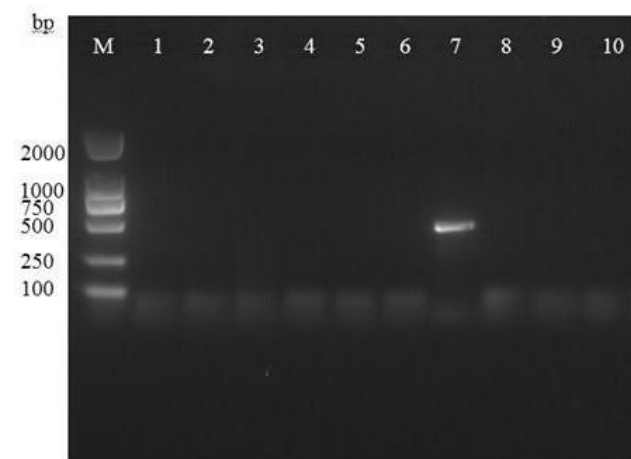
71: ZHEJIANG ACADEMY OF SCIENCE & TECHNOLOGY FOR INSPECTION&QUARANTINE, FOSHAN CUSTOMS INTEGRATED TECHNOLOGY CENTER, HANGZHOU CUSTOMS DISTRICT P.R.CHINA, CHINESE ACADEMY OF INSPECTION AND QUARANTINE

72: WU, ZHIYI, CHENG, FAN, LI, KAIBING, HUANG, LINGZHE, CHEN, PENGCHENG, YU, YANXUE, REN, YAN

**54: PRIMERS FOR RAPID IDENTIFICATION OF LYMANTRIA XYLINA SWINHAE BASED ON CONVENTIONAL PCR TECHNOLOGY, AND APPLICATION AND IDENTIFICATION METHOD THEREOF**

00: -

The present invention belongs to the technical field of forestry and plant quarantine, and particularly relates to primers for rapid identification of *Lymantria xylin* Swinhoe based on conventional PCR technology, and an application and identification method thereof. The primers for rapid identification of *Lymantria xylin* is based on conventional PCR technology and is characterized by comprising a forward primer LX-F and a reverse primer LX-R, wherein the nucleotide sequence of the forward primer LX-F is as shown in SEQ ID NO.1, and the nucleotide sequence of the reverse primer LX-R is as shown in SEQ ID NO.2.



21: 2021/03307. 22: 5/14/2021. 43: 6/24/2021

51: C12N; C12Q

71: ZHEJIANG ACADEMY OF SCIENCE & TECHNOLOGY FOR INSPECTION & QUARANTINE, GUIZHOU LIGHT INDUSTRY TECHNICAL COLLEGE, CHINESE ACADEMY OF INSPECTION AND QUARANTINE

72: WU, ZHIYI, CHENG, FAN, WANG, TAO, TIAN, HONGWEI, FANG, WENYUAN, REN, YAN, YU, YANXUE, WU, YING

**54: DETECTION METHOD, PRIMERS, AND PROBE FOR GYPSY MOTHS LYMANTRIA DISPAR L. BASED ON TAQMAN-MGB QPCR TECHNOLOGY**

00: -

The present invention belongs to the technical field of forestry and plant quarantine, and particularly relates to a detection method, primers and a probe for gypsy moths based on a Taqman-MGB real-time fluorescence PCR (qPCR) technology. Primers for detection based on a Taqman-MGB real-time fluorescence PCR (qPCR) technology, comprise an upstream primer LDND2-F and a downstream primer LDND2-R, wherein the nucleotide sequence of the LDND2-F is as shown in SEQ ID NO.1, and the nucleotide sequence of the LDND2-R is as shown in SEQ ID NO.2.

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GAATCCTGGATCATTAAATCGGAAATGATCAAATTATAACTATTGTTACAGCTCATGC
ATTATACATAATTTTTTATAGTTATACCAATTATAATTGGAGGATTGGTAATTGGTTAG
TACCTTTAATATTAGGAGCCCTGATATAGCTTTCCCGTATAAATAATAAGATTG
ATTATACCCCTCATTAAACCTTTTAATTCAAGAAGAATTGTAGAAAATGGAGCAG
GAACAGGATGAAGTGTTCACCTCTCTATCTTCTAATATTGCTCATGGAGGTAGATCT
LDND2-F→
GTTGATTAGCTATTTTCTCTTCACTTAGCTGGTATTCATCAATTTAGGAGCAATTA
LDND2-R
ATTATTAATCTACCATTTAATATACGATTAAGAAATTTATCGTTTGATCAAAACCTTTA
TTGTTTGAAGAGTTGGAATTACAGCTTTCCTTCTACTTTTATCTTACCTGTTTATGCA
GGTGCTATTACAATATTATTAAGTACCGAAATTAATACATCC

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21: 2021/03563. 22: 1/25/2021. 43: 6/24/2021

51: A61K

71: RUGBY (GUANGDONG) HEALTH TECHNOLOGY CO., LTD, LOOBI (GUANGZHOU) HEALTH INDUSTRY CO., LTD

72: LI, Yichun, LIANG, Huiwen, LI, Lihua

33: CN 31: 202011226381.7 32: 2020-11-06

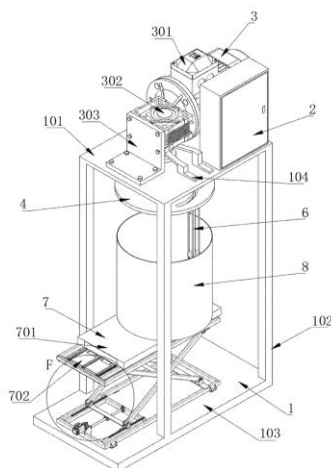
**54: PROBIOTIC DROP FOR IMPROVING ALLERGIC CONSTITUTION**

00: -

The disclosure discloses a probiotic drop for improving allergic constitution and a preparation method thereof, belonging to the field of medical biotechnology. The probiotic drop is prepared from the following raw materials: lactobacillus casei, lactobacillus paracasei, lactobacillus rhamnosus, lactobacillus reuteri, lactobacillus acidophilus, bifidobacterium longum, lactobacillus plantarum, fermented lactic acid bacteria, galacto-oligosaccharide, xylo-oligosaccharides, anhydrous



glucose, protein hydrolysate, polyol, natural vitamin E, unsaturated fatty acid, vegetable oil, and phospholipid oil. The preparation method of the drop is simple, and easy to control in process, and the drop is stable in performance, not solidified at low temperature, uniform in composition, good in oxidation resistance, and more stable to store.



21: 2021/03622. 22: 5/27/2021. 43: 6/23/2021

51: G01N

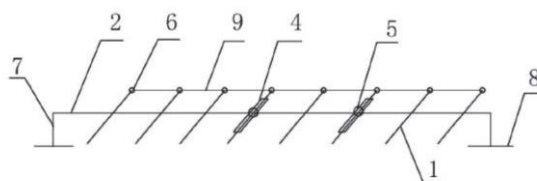
71: Anhui University of Science and Technology

72: PANG, Dongdong, ZHANG, Yi, JIANG, Haifeng, WANG, Xiaomei, WEI, Kai, DU, Xiaoyan, CHANG, Yumeng

#### **54: CRACK PREFABRICATION DEVICE AND CRACK MAKING METHOD**

00: -

The present invention relates to the field of mining machinery, in particular to a crack prefabrication device for an analog simulation system and a crack making method using the crack prefabrication device. device comprises a plurality of crack sheets, a crack sheet carrier and a crack sheet fixing box. The crack sheet fixing box comprises a horizontally disposed fixed rod; a plurality of through holes are formed in the fixed rod; slideways are movably connected to two through holes; each slideway is in a hollow tubular structure and is connected with the through hole by an angle fixing buckle; both ends of each slideway are disposed at the upper part and the lower part of the angle fixing buckle respectively; and each slideway can freely rotate with the angle fixing buckle as an axis in a left-right direction.



21: 2021/03661. 22: 5/28/2021. 43: 6/30/2021

51: G01N

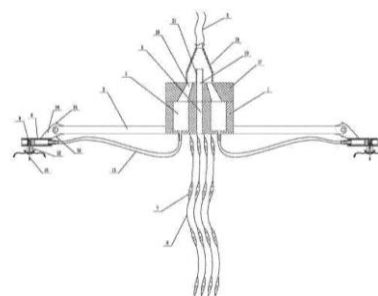
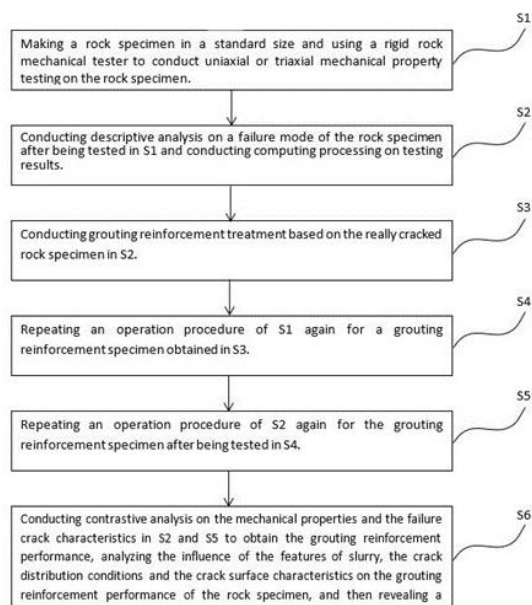
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: LIU, Qinjie, YANG, Ke, FU, Qiang, WU, Benniu

#### **54: GROUTING PERFORMANCE TEST METHOD AND DEVICE FOR REALLY CRACKED ROCK SPECIMEN**

00: -

Disclosed is a grouting performance test method and device for a cracked rock specimen by making a rock specimen in a standard size, using a rigid rock mechanical tester to conduct uniaxial or triaxial mechanical property testing on the specimen; conducting descriptive analysis on a failure mode of the rock specimen after testing, and computing testing results; conducting grouting reinforcement treatment based on the really cracked rock specimen; repeating mechanical testing for a grouting reinforcement specimen; repeating a descriptive analysis for the grouting reinforcement specimen after being tested; conducting contrastive analysis on the properties and the failure crack characteristics in of the two specimens to obtain the grouting reinforcement performance, analyzing the influence of the features of slurry, the crack distribution conditions and the crack surface characteristics on the grouting reinforcement performance of the rock specimen, and then revealing a grouting reinforcement mechanism of the fractured rock specimen.



21: 2021/03672. 22: 5/28/2021. 43: 6/24/2021

51: A01M

71: SHANGHAI OCEAN UNIVERSITY

72: LI, Qin, LU, Huajie, CHEN, Xinjun, CHEN, Ziyue, NING, Xin, LIU, Kai

#### **54: A HIGH-EFFICIENCY COMBINED SQUID JIGGING MACHINE**

00: -

A combined squid jigging machine includes a frame provided with a cantilever beam, an incomplete gear mechanism, a support ring, a rotatable swing rod and a squid jigging mechanism. The incomplete gear mechanism includes a vertical shaft rotatably arranged on the cantilever beam via a first bearing, a driven gear arranged on the vertical shaft and an incomplete gear engaged with the driven gear. The support ring is obliquely arranged below the cantilever beam, and the vertical shaft is located at a center of the support ring. One end of the rotatable swing rod is hinged with the vertical shaft, and a shaft sleeve is sheathed on the rotatable swing rod. The rotatable swing rod is supported on the support ring through the shaft sleeve.

21: 2021/03671. 22: 5/28/2021. 43: 6/24/2021

51: A01M

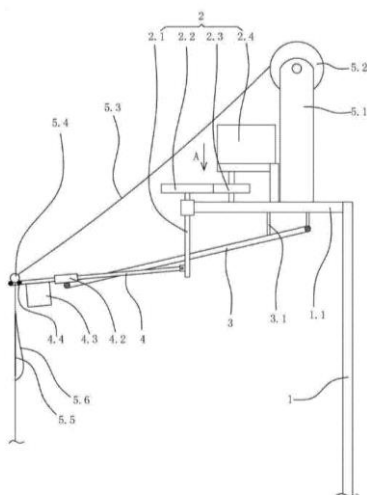
71: SHANGHAI OCEAN UNIVERSITY

72: LI, Qin, LU, Huajie, CHEN, Xinjun, CHEN, Ziyue, NING, Xin, LIU, Kai

#### **54: A DEVICE FOR TRAPPING A SQUID IN AN OCEAN**

00: -

This disclosure provides a device for trapping a squid in an ocean, including a positioning block. Several extending arms are arranged spaced apart on the positioning block. An upper end of the block is connected to an air pipe. The air pipe is connected to an air pump. The block has a vent cavity and a vent hole. The vent cavity and the vent hole are communicated with the air pipe. The vent hole extends to a lower end of the block. Multiple swing ropes are connected to a ventilating position at the lower end of the block. Each swinging rope has a plurality of trapping heads. A connecting tube is hinged with the extending arms. A rotating column is arranged in the connecting tube and has a drive blade rotated by airflow. The connecting tube has an upper air hole arranged upwards and a lower air hole arranged downwards.



21: 2021/03836. 22: 6/2/2021. 43: 6/24/2021

51: E02B

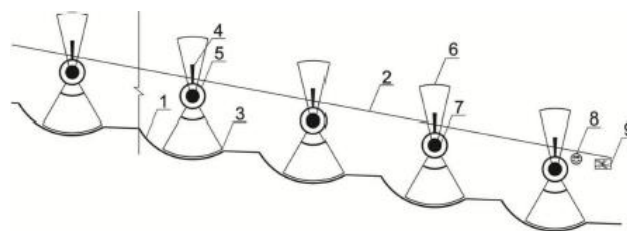
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, CHINA THREE GORGES CORPORATION

72: RONG, GUIWEN, YANG, XUTING, DAI, HUICHAO, JIANG, DINGGUO, JIANG, HONGLING, WANG, LILI, ZHANG, SHUZAN, HE, CHENGSHAN, CHEN, QINGQING, LIANG, ZHILONG

**54: SUPERIMPOSED ARC TYPE FISHWAY WITH VARIABLE HYDRAULIC GRADIENT AND FISH PASSING METHOD**

00: -

The present invention relates to the field of fish passing buildings and ecological environments of water conservancy and hydroelectricity engineering, and particularly to a superimposed arc type fishway with a variable hydraulic gradient and a fish passing method. The present invention comprises stepped bottom plates, wing walls, water retaining structures, driving assistance structures, sensors, and a main controller wherein the bottom plates comprise curved and flat surface segments. The driving assistance structure is composed of a fish driving net, a fish retaining net, a driving assistance bracket, and a rotating shaft. Each rotating shaft are driven by two stepping motors on the outer sides of the wing walls. The sensors and the main controller are arranged on the wing walls, and the main controller receives a pulse signal from the sensors and then controls the stepping motors on the outer sides of the wing walls of each fishway unit.



21: 2021/03837. 22: 6/4/2021. 43: 6/24/2021

51: A41D

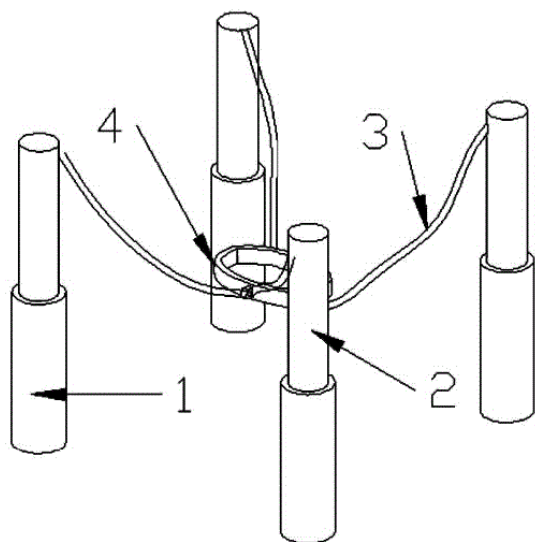
71: Yang, Shuming

72: Yang, Shuming

**54: KNEE PROTECTION DEVICE FOR LEAPS AND BOUNDS DANCE TRAINING**

00: -

The present invention discloses a knee protection device for leaps and bounds dance training, which belongs to training protection technical field, the knee protection device can be used in conjunction with the protection suit so as to not only protect knees but also the entire body of the user; with the elevating mechanism, it is possible to adjust height of the posts, and with the elastic strap and the protection suit, it is possible to prevent tumbling of the user due to any fault; furthermore, the knee protection assembly can be used alone, and in this way, limitation for the usage is few, which makes the knee protection assembly convenient to use; what's more, the user can adjust the air bag as per actual conditions and training strength, with the retractable mechanism a cushioning effect can be achieved to the knees to prevent injuries, and with the adjustment structure, it is possible to adjust position of the retractable mechanism, so the user can adjust to a premium position as desired, which eases the usage; and with the sweat absorption layer, use experience of the users can be greatly improved and in the meantime, the sweat absorption layer is detachably connected, which makes it possible to replace and clean the same.



21: 2021/03838. 22: 6/4/2021. 43: 6/24/2021  
51: C22B

71: Guangdong Polytechnic of Environmental Protection Engineering  
72: Wenxiang WANG, Xiaoyang WANG, Hongsheng FANG

**54: METHOD AND APPLICATION FOR SYNERGISTICALLY REMOVING ARSENIC FROM ARSENIC-ALKALI RESIDUE MIXED WITH ARSENIC CONTAINING MATERIALS**

00: -

The present disclosure provides a method for synergistically removing arsenic from arsenic-alkali residue mixed with arsenic-containing materials. The arsenic-alkali residue and the arsenic-containing material are mixed in the ratio of (0.5-8):1. Then the mixture is roasted and filtered with water to obtain filtering residue and leaching liquid. The filtering residue is the product of arsenic-free, and the leaching liquid is arsenic-containing waste liquid, thereby achieving the objective of synergistically removing arsenic from the arsenic-alkali residue in combination with the arsenic-containing material. In the present disclosure, the arsenic is synergistically removed from the mixture of arsenic-alkali residue and arsenic-containing materials. Because there is no alkali agent, the treatment cost is greatly reduced. And the technology process is simpler, which has important significance in the fields of metallurgy and resource recycling.

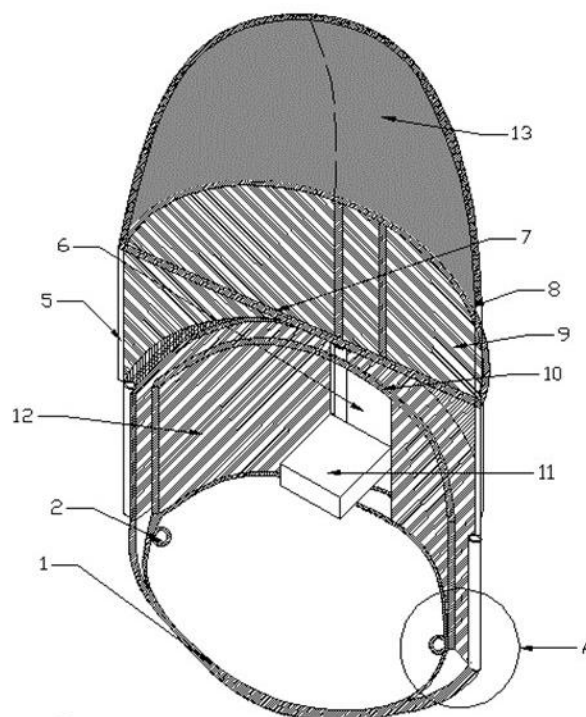
21: 2021/03839. 22: 6/4/2021. 43: 6/24/2021  
51: E21C

71: Anhui University of Science and Technology  
72: Wenbao SHI, Jucai CHANG, Haoyan LI, Fanfan YAO

**54: A SAFETY CABIN FOR THE SAFE OPERATION OF A TUNNELING MACHINE DRIVER**

00: -

The invention provides a safety cabin for the safe operation of a tunneling machine driver, which comprises a semiellipsoid dome, sliding doors, an operator rest platform, a transparent and annular elevatable baffle and a double-vaned rotatable baffle, there being two sliding doors or the like provided. The invention has the following advantages over the prior art that dust and flying stones caused by mine tunneling working faces in tunneling processes can be kept out by the semiellipsoid dome, the sliding doors, the transparent and annular elevatable baffle and the double-vaned rotatable baffle forming together a semiellipsoid sealed safety cabin, thus effectively reducing the dust inhalation of the tunneling machine driver, and the semiellipsoid dome prevents the physical harm of the tunneling machine driver by falling rocks.





21: 2021/03840. 22: 6/4/2021. 43: 6/24/2021

51: A61F; D04C

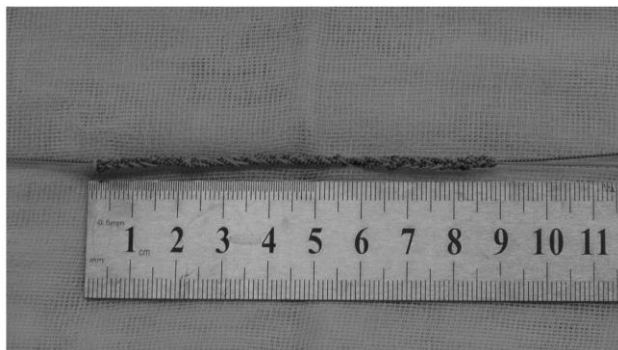
71: First Affiliated Hospital of Kunming Medical University

72: Li Yanlin, Yu Yang, Han Rui, Yang Xiangang, Shi Qinglv

**54: A INTERNAL TENSION-RELIEVING BRAIDING DEVICE AUGMENT CRUCIATE LIGAMENT RECONSTRUCTION**

00: -

The invention relates to a internal tension-relieving braiding device for anterior and posterior cruciate ligament reconstruction(ACL and PCL) of knee and a braiding method of internal tension-relieving braiding device, belonging to the technical field of reconstruction of anterior and posterior cruciate ligaments. The method includes five steps: suture preparation, suture fixation, initial braiding,, intermediate braiding, and end braiding. According to the invention, a internal tension-relieving device is braided and then placed in the center of the graft tendon, so that the braiding method can not only further strengthen the braiding device, but also play the role of' internal relieving the tension, avoid excessive stress stimulation from acting on the reconstructed ligament during ligament shaping and reconstruction, prevent the reconstructed ligament from being elongated, and facilitate the healing of the reconstructed ligament; In addition, the diameter of reconstructed ACL or PCL can be appropriately increased, so that ACL or PCL can tightly fit to the surface of the bone tunnel as much as possible, and the bone-tendon can heal better and sooner.



21: 2021/03952. 22: 6/9/2021. 43: 6/18/2021

51: H01M

71: Zhengzhou University Of Aeronautics

72: Mingyu Li, Zhanjun Yu, Haibo Huo, Mengjie Yang, Dongxia Chen, Linjie Fu, Huali Ma, Xianli Wang, Fanguang Zeng

33: CN 31: 202110546168.2 32: 2021-05-19

**54: A CATHODE MATERIAL OF LITHIUM/SODIUM ION BATTERY AND ITS PREPARATION METHOD**

00: -

The invention discloses a cathode material of lithium/sodium ion battery and its preparation method. The cathode material is prepared from the following raw materials in parts by weight: 20-30 parts of CMK-8, 3-7 parts of NiSe<sub>2</sub> octahedral microcrystals, 10-20 parts of graphene-like molybdenum disulfide, 3-6 parts of carbon nanotubes, 5-10 parts of cysteine. The present invention uses CMK-8 as a template, and attaches a three-dimensional structure composed of graphene-like molybdenum disulfide, NiSe<sub>2</sub> octahedral microcrystals, and carbon nanotubes on its surface. It contains abundant channels and is easy for lithium/sodium ions to migrate and shuttle, insert and extract in the channel, which greatly improves the specific capacity of lithium/sodium ions for charge-discharge. At the same time, the large amount of internal space can effectively avoid the volume expansion of the cathode material and can buffer and adjust the rapid insertion and extraction of lithium/sodium ions to prolong the service life of the cathode material.

21: 2021/03956. 22: 6/9/2021. 43: 6/18/2021

51: G06Q

71: Anhui University of Science and Technology  
72: Yaoshan BI, Jiwen WU, Xiaorong ZHAI, Ru HU, Zhangqi LI, Kai HUANG, Libin TANG, Wei LIU

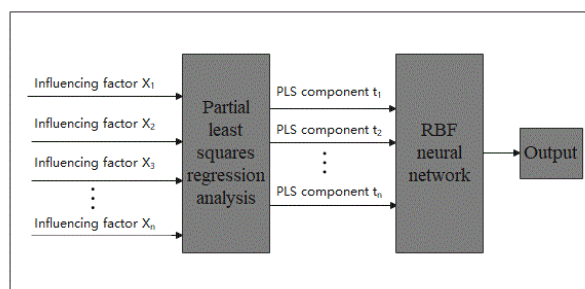
**54: MODEL FOR PREDICTION OF WATER INRUSH QUANTITY FROM COAL SEAM ROOF AQUIFER IN MINE BASED ON PLSR AND RBF NEURAL NETWORK**

00: -

The present invention relates to a model for prediction of a water inrush quantity from a coal seam roof aquifer in a mine based on partial least squares regression (PLSR) and radial basis function (RBF) neural network. The present invention provides a model for prediction of a water inrush quantity from a coal seam roof aquifer in a mine based on partial least squares regression (PLSR) and radial basis function (RBF) neural network, wherein the model for prediction of a water inrush



quantity from a coal seam roof aquifer in a mine is obtained by steps: S1, reducing dimensions of original data by PLSR; and S2, inputting the processed data to an RBF neural network to construct the model; the model avoids overfitting, has a promising application prospect in engineering, and meets the need of predicting a water inrush quantity from a coal seam roof aquifer in a mine.



21: 2021/03972. 22: 09/06/2021. 43: 6/18/2021  
51: H04W

71: TIANDI (CHANGZHOU) AUTOMATION CO., LTD., CCTEG CHANGZHOU RESEARCH INSTITUTE

72: CHEN, Kang, HUO, Zhenlong, BAO, Jianjun, WANG, Jun, WANG, Wei, JI, Lijia

33: CN 31: 201910315439.6 32: 2019-04-19

#### 54: UWB-BASED TERMINAL POSITIONING SCHEDULING METHOD

00: -

The present invention relates to a UWB-based terminal positioning scheduling method, comprising: a UWB positioning base station segment having a location-fixed UWB positioning base station and configured to broadcast information required for positioning; and a UWB positioning terminal segment configured to receive the broadcast of the UWB positioning base station and to calculate its own location according to content of the broadcast and an arrival timestamp of the broadcast. A terminal can calculate its own location using the positioning scheduling method of the present invention, and high-timeliness services, such as navigation, path planning, and automatic driving, can be implemented at the terminal.

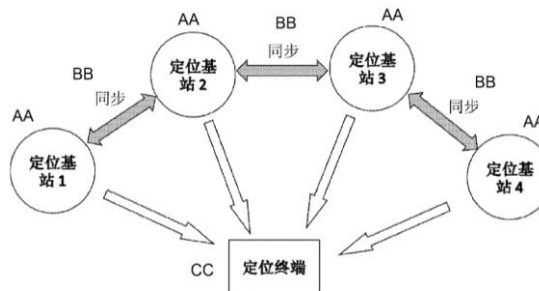


图 1

AA Positioning base station  
BB Synchronization  
CC Positioning terminal

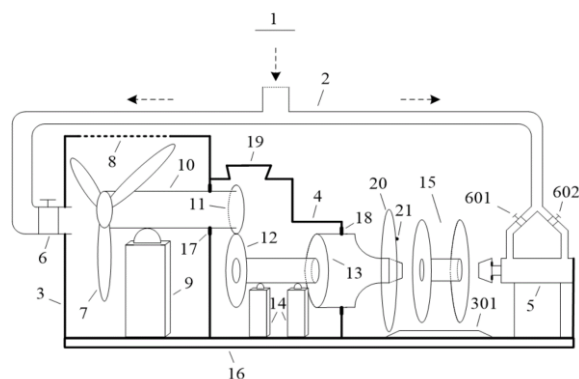
21: 2021/03986. 22: 6/10/2021. 43: 6/18/2021  
51: B66D; F03D

71: Anhui University of Science and Technology  
72: Zhang Guisheng, Zhu Yanna, He Gang, Xu Jiachang, Peng Jiecai

#### 54: DOWNHOLE WIND-DRIVEN WINCH AND REALIZATION METHOD THEREOF

00: -

The present invention discloses a downhole wind-driven winch and a realization method thereof, comprising a winch body, wherein the winch body is equipped with a ventilation pipe, a pneumatic box, a transmission box, a simple cylinder, a wire coil and a base; a No. 1 air flow regulating valve is connected to a left end of the ventilation pipe, a fan blade, a No. 1 pillar, a connecting rod and a No. 1 bearing are arranged in the pneumatic box, a power gear, a transmission gear, a rotating block, a No. 2 pillar and a No. 2 bearing are arranged in the transmission box, the left and right ends on the upper side of the simple cylinder are respectively equipped with an air inlet with shaft and an air inlet without shaft, and a piston is arranged in the simple cylinder. The actual application results of the present invention show that the design has the advantages of simple structure, high stability, convenient use and maintenance, stable rotation and coarse-adjustable speed of the fan blade, coarse-adjustable expansion force and speed of the simple cylinder, stable rotation of the wire coil and no skid at the constant wind speed, and good pressure holding effect of the simple cylinder, so the present invention is suitable for downhole popularization and use.



21: 2021/03987. 22: 6/10/2021. 43: 6/18/2021  
51: C08G

71: Ningbo Baoting Biotechnology Co., Ltd

72: ZHU YABIN, HE BIN, BAI YUN

**54: TWO-COMPONENT POLYURETHANE COMPOSITION AND ITS PREPARATION METHOD, AND APPLICATION THEREOF**

00: -

The invention provides a two-component polyurethane composition, belonging to the technical field of polymer materials. The two-component polyurethane composition comprises component A and component B. According to the mass percentage, the component A comprises 0-100% of high-activity polyether polyols, 0-100% of cross-linking agent, 0-40% of chain extender, 0-50% of plasticizer and 0-5% of catalyst. According to the mass percentage, the component B comprises 0-100% of diphenylmethane diisocyanate and derivatives thereof, and 0-50% of plasticizer. The mass ratio of component A to component B is 1:0.1-1:3. The two-component polyurethane composition provided by the invention has low heat release and excellent mechanical properties.

21: 2021/04024. 22: 6/11/2021. 43: 6/18/2021  
51: G08B

71: Anhui University of Science and Technology

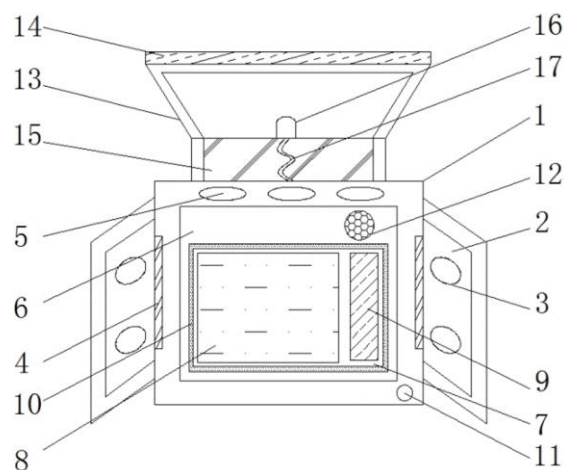
72: Zhu Yanna, Zhang Guisheng, He Gang, Zhang Xuesen

**54: ANTI-FLOODING SAFETY EARLY WARNING DEVICE OF COAL MINE AND REALIZATION METHOD THEREOF**

00: -

The present invention discloses an anti-flooding safety early warning device of coal mine and a realization method thereof, comprising an early warning device housing, wherein a groove is fixedly

installed on the outer surface of both ends of the early warning device housing respectively, the outer surface of the front end of the early warning device housing is equipped with a control panel, a display screen is fixedly installed on the outer surface of the control panel, an alarm loudspeaker is fixedly installed on one side above the outer surface of the display screen, an upper end of the early warning device housing is equipped with a water drop sensing housing, a glass panel is fixedly installed on the outer surface of the water drop sensing housing, a sensing cavity is arranged in the water drop sensing housing, a light-emitting diode is arranged in the sensing cavity, and an integrated circuit board is arranged in the early warning device housing. The present invention has the advantages of simple structure, convenient fixing of the early warning device, multi-directional detection around the mining face, and timely giving early warning before the occurrence of flooding accident.



21: 2021/04027. 22: 6/11/2021. 43: 6/18/2021  
51: A61K

71: Shandong Jianzhu University

72: Zhang Lili, Su Yunqiao, Su Beile

**54: LIPSTICK-TYPE OINTMENT FOR TREATING SKIN INFLAMMATION AND PREPARATION METHOD**

00: -

The present invention belongs to the field of pharmaceutical technology, and specifically relates to a lip balm type ointment for treating skin inflammation and its preparation method. The ointment is prepared by the following raw materials:

5-10 parts of comfrey, 1-2 parts of angelica, 2-3 parts of licorice, 1-2 parts of honeysuckle, 2-3 parts of astragalus, 2-3 parts of peony, 2-3 parts of dahurica, 2-3 parts of rhubarb, 3-5 parts of sophora, 2-3 parts of amber, 5-6 parts of beeswax, 0.5 parts of propolis, 1-2 parts of algae sugar, 0.1-0.2 parts of arginine, 10 parts of comfrey infused oil, 0.2 parts of baking soda. The ointment prepared by the present invention is effective in treating mosquito bites, dermatitis, eczema, acne, herpes and other skin inflammations, and can accelerate skin healing without irritation.

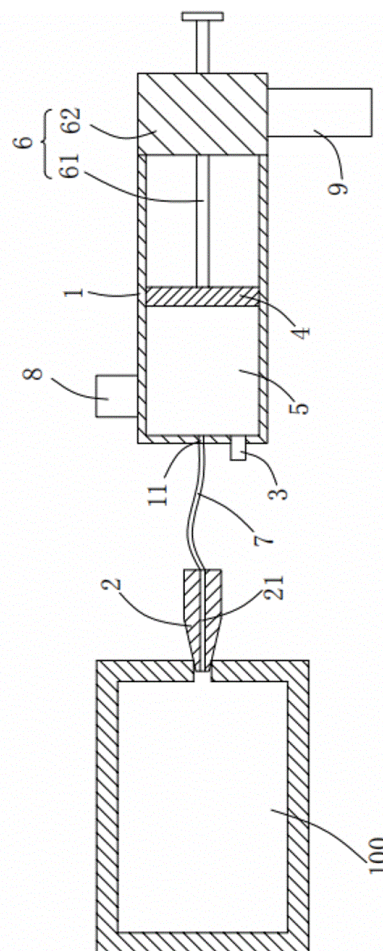
21: 2021/04094. 22: 6/15/2021. 43: 6/18/2021  
51: G01F

71: Beijing Building Research Institute Co., Ltd. of CSCEC, Beijing No.6 Construction Engineering Quality Test Department Co., Ltd, China  
Construction First Group Corporation Limited  
72: Wang Xianzhang, Hu Zhigang, Wang Changjun, Tang Baohua, Xu Dandan, Li Hefei, Zhang Xuwei, Chen Kang

#### 54: VOLUME DETECTION DEVICE AND DETECTION METHOD

00: -

The application relates to a volume detection device and a detection method, belonging to the field of volume detection equipment. The volume detection device comprises a cylinder body, one end of which is provided with a vent hole, a piston which can slide along the inner surface of the cylinder body, a standard air chamber is formed between the piston and the vent hole, and the volume of the standard air chamber can be changed when the piston slides; The measuring needle is connected with the vent hole and can be inserted into the air port of the cavity to be measured; The sensing component is used for detecting the temperature and pressure in the standard gas chamber; And the central control component is used for calculating the volume of the measured cavity according to the signal output by the sensing component and the volume variation of the standard air chamber. The volume detection device and the detection method provided by the application can quickly and conveniently measure the volume of the cavity to be detected, and have high accuracy.



21: 2021/04095. 22: 6/15/2021. 43: 6/18/2021  
51: E21B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

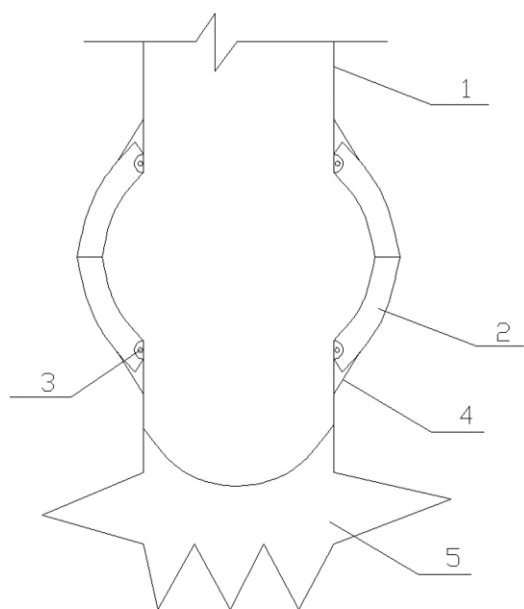
72: Xiang HE, Xinyuan ZHAO, Zhen WEI, Shuai LIU, Litong DOU

#### 54: UNDERGROUND GROUTING DRILL PIPE IN COAL MINE AND USE METHOD THEREOF

00: -

In order to reduce the disturbance to the broken rock mass and gangue in the process of extracting the drill pipe during the grouting and filling operation of the drilling pipe first and then the grouting pipe, effectively solve the problem of hole blocking blockage, and at the same time facilitate the underground grouting operation and reduce the grouting and filling process, a underground grouting drill pipe in coal mine is proposed, which is mainly composed of a drill pipe body, a one-way opening and closing device, a rotary connector, a protective cap, a drill bit and other components. A rotary

connector is used to connect the one-way opening and closing device and the drill pipe body, meanwhile, so that the one-way opening and closing device can be opened and closed outwardly. The rotary connector has a small spring built into it, so that the one-way opening and closing device is always in a closed state during either its natural state or the drilling process. At the same time, the role of the protective cap is to ensure that there is enough space to open and close the one-way opening and closing device. This device is easy to operate due to its simple structure, and can grout and fill in the broken roof or collapsed gangue while drilling therein, simplifying the cumbersome process of arranging the drill pipe and the grouting pipe twice, effectively solves the problem of hole blockage, facilitates the underground grouting operation.



21: 2021/04096. 22: 6/15/2021. 43: 6/18/2021  
51: F15B

71: RESEARCH INSTITUTE OF HIGHWAY  
MINISTRY OF TRANSPORT

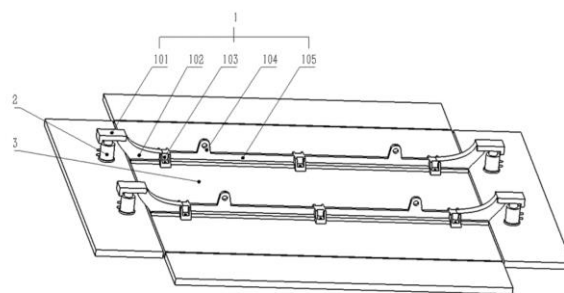
72: Li sili, Tian bo, Xie jinde, Quan lei, Li lihui, Zhang panpan, He zhe

**54: SYNCHRONOUS JACKING EQUIPMENT FOR  
DISMANTLING CEMENT CONCRETE PAVING  
SLABS**

00: -

The invention relates to the technical field of pavement repair, in particular to a synchronous jacking device for dismantling cement concrete

pavements, which comprises at least two beam components arranged side by side and jacking devices abutting on two ends of the beam components. Two ends of the beam assembly are higher than the middle part, and the beam assembly comprises a beam main body, two ends of the beam main body are fixedly connected with connecting parts, a jacking device is arranged below the connecting parts, and the beam main body is fixedly connected with a plurality of connecting seats. The invention can achieve the purpose of separating the cement concrete slab from the roadbed.



21: 2021/04098. 22: 6/15/2021. 43: 6/18/2021  
51: E02D; E21D

71: ANHUI UNIVERSITY OF SCIENCE AND  
TECHNOLOGY

72: Xinyuan ZHAO, Ke YANG, Xinwang LI, Lichao CHENG, Xiang HE, Zhen WEI, Yiling QIN, Jiqiang ZHANG

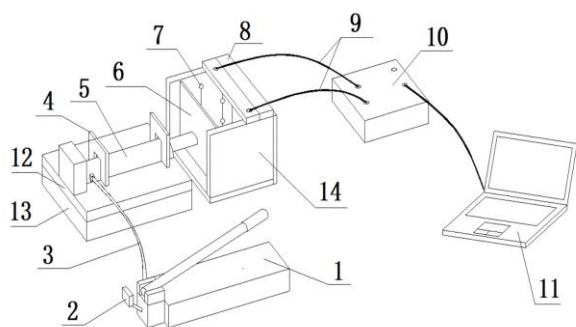
**54: METHOD FOR SIMULATING AND  
MONITORING LATERAL FORCE ON ROADSIDE  
BACKFILL BODY OF GOB SIDE ENTRY  
RETAINING IN FILLING MINING**

00: -

In order to study magnitude and distribution of the lateral force of roadside backfill body in the process of filling tamping and roof subsidence under the condition of goaf filling in the laboratory, based on the real restoration of underground goaf filling tamping process and roof subsidence process, according to the similar simulation principle, using devices such as the self-made tamping mechanism, filling material box, and lateral force monitoring system, a method for simulating and monitoring the lateral force on the roadside backfill body of gob side entry retaining in filling mining is disclosed. In this method, a series of operations such as monitoring device installation, similar material simulation filling, tamping simulation of filling material, real-time monitoring of a monitoring system, vertical



compression simulation of roof subsidence, and data monitoring and analysis are carried out step by step to complete the lateral force monitoring simulation test of the roadside backfill body in the process of underground tamping roof subsidence, and study the lateral force magnitude, distribution and evolution of the roadside backfill body of gob side entry retaining in filling mining. The method is easy to implement, safe and efficient, time-saving and labor-saving, and reduces the uncertain risk of underground field monitoring.



21: 2021/04099. 22: 6/15/2021. 43: 6/18/2021

51: C02F

71: YANTAI BOHAO INFORMATION

TECHNOLOGY CO., LTD, ZHANG, Yiyun

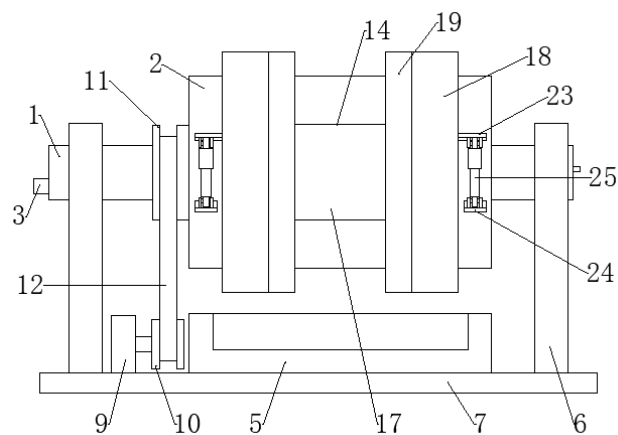
72: ZHANG, Yiyun, ZHANG, Feifei, LV, Liping

**54: SEWAGE TREATMENT EQUIPMENT**

00: -

The disclosure relates to the technical field of sewage treatment, in particular, sewage treatment equipment, including a large transverse shaft. A rotary drum is coaxially rotatably mounted on the large transverse shaft; the rotary drum is connected with a driving mechanism; one end of the large transverse shaft is provided with a water inlet pipe and a dosing tube which extend into the rotary drum; an agitating mechanism is arranged on the rotary drum; a filter mechanism is also arranged in the rotary drum; a water catcher is arranged below the rotary drum; and a cleaning mechanism is arranged in the rotary drum. When cover plates of the disclosure are in closed states, sewage to be treated and medicine liquid can be added into the rotary drum; the sewage and the medicine liquid are uniformly mixed by means of agitation of a transverse plate. After the cover plates are opened, the sewage can be drained from ports via filter plates, so as to be filtered. The device can complete

chemical treatment on the sewage and perform filtration treatment, and has complete functions.



21: 2021/04100. 22: 6/15/2021. 43: 6/18/2021

51: A61K

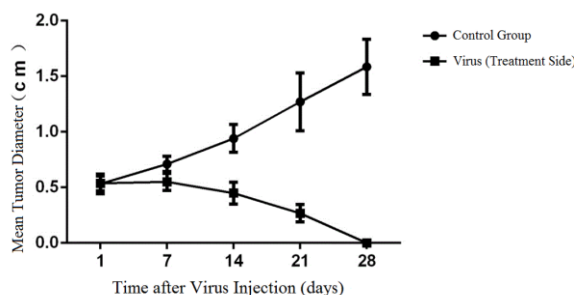
71: Binhui Biopharmaceutical Co., Ltd.

72: LIU, Binlei

**54: RECOMBINANT ONCOLYTIC VIRUS FOR LYMPHOMA, ESOPHAGEAL CANCER, BREAST CANCER AND PANCREATIC CANCER THERAPY**

00: -

The present invention discloses a recombinant oncolytic virus for lymphoma, esophageal cancer, breast cancer and pancreatic cancer therapy. The recombinant oncolytic type II herpes simplex virus can specifically grow and reproduce in human tumor cells, without affecting the proliferation of normal cells, thus it can effectively kill cancer cells, presenting good effect. These new indications provide more evidences for drug development and utilization with the recombinant oncolytic type II herpes simplex virus.



21: 2021/04119. 22: 15/06/2021. 43: 6/18/2021

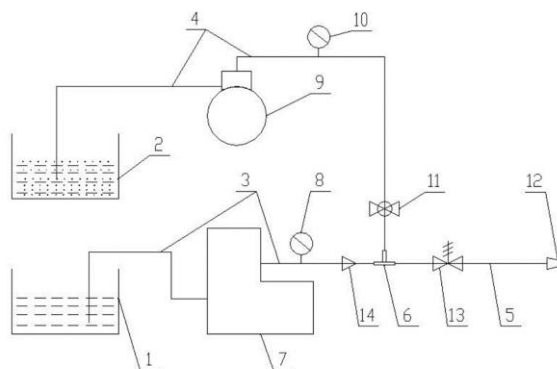
51: B24C



72: YUAN, Ruifu, YAO, Yuanhang, LI, Xiaojun, LI, Huamin, LI, Dongyin, TONG, Jinglin, XIONG, Zuqiang, WANG, Wen

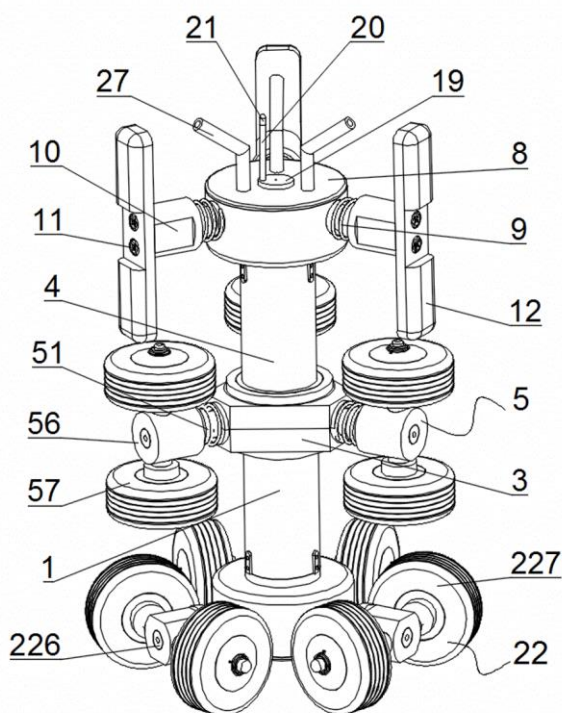
## 54: SYSTEM AND METHOD FOR REALIZING CONTINUOUS ADDITION OF SAND INTO PRE-MIXED ABRASIVE WATER JET BY HIGH-PRESSURE MORTAR PUMP

The present invention discloses a system for realizing continuous sand adding on pre-mixed abrasive water jet by high-pressure mortar pump, which includes a water barrel, a mortar mixing barrel, a high-pressure water pipeline, a high-pressure mortar pipeline, a high-pressure jet pipeline and a tee pipe; the high-pressure mortar pipeline is provided with a high-pressure mortar pump, a second pressure gauge and a regulating ball valve in sequence along the mortar flow direction; the outlet of the high-pressure jet pipeline is connected with a high-pressure sprinkler head. The present invention also discloses a sand adding method for realizing operation of the system for realizing continuous sand adding on pre-mixed abrasive water jet by high-pressure mortar pump. The present invention flexibly utilizes the characteristics of the high-pressure mortar pump that can carry small abrasive sand, thereby changing the method of mixing the water and sand under high pressure used currently into a new method in which water and sand are mixed into mortar of a high-concentration under normal pressure, which is then mixed with high-pressure water to form a high-pressure abrasive water jet of a suitable concentration, which has the advantages of convenient and continuous sand addition and convenient operation.



## 54: AN INTEGRATED SWEEPING AND SPRAYING PIPELINE CLEANING ROBOT

The invention discloses an integrated sweeping and spraying pipeline cleaning robot, which includes a hollow spindle, a first bearing, a bearing end cover, a sleeve, a radial moving component, and a sealing ring, a second bearing, a spindle front end cover, a cleaning spring, a cleaning spindle, a bolt, a brush, a limit groove, a limit block, a locking screw hole, a locking screw, a fixing seat, a servo motor, a turntable, a rotating rod, an infrared camera, an axial movement component, a spindle rear cover, a flexible pipe, a high-pressure water pump, a high-pressure nozzle and a water spraying channel; The design incorporating sweeping and spraying together is adopted by the invention, which combines water spraying washing and brush cleaning together, thereby enhancing the cleaning of the pipe performed by the robot, therefore the stubborn dirt on the inner wall of the pipeline is effectively removed, the cleaning is more thorough, the efficiency for cleaning pipeline exerted by the robot is improved, and the cleaning requirements of the pipeline are met; which can not only move axially and radially in the pipeline, but also adapt to pipelines of different diameters, thereby expanding the applicable scope of the robot.



21: 2021/04224. 22: 6/21/2021. 43: 6/29/2021  
51: E21F

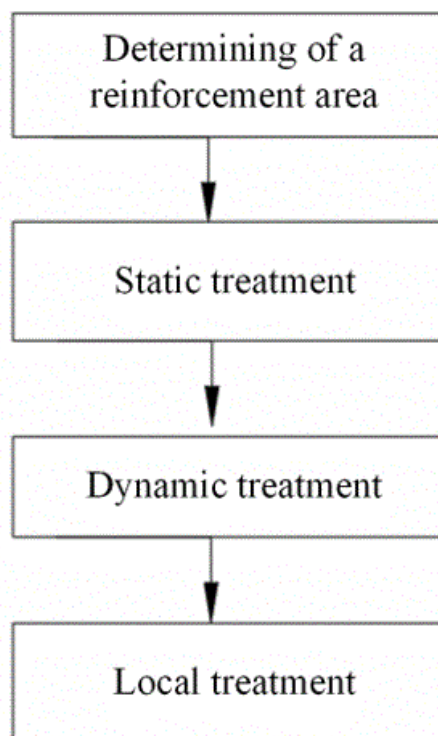
71: Anhui University of Science and Technology,  
Huaibei Mining Co.,Ltd., China Coal Technology  
Engineering Group Chongqing Research Institute  
72: Cheng, Xiang, Zhao, Guangming, Yuan,  
Benqing, Meng, Xiangrui, Li, Yingming, Huang,  
Shunjie, Li, Gang, Xu, Zunyu, Qin, Zhihong, Wang,  
Song

**54: METHOD FOR GROUTING REINFORCEMENT  
OF FAULT FRACTURE ZONE OF COAL MINING  
WORKING FACE**

00: -

The present invention discloses a method for grouting reinforcement of a fault fracture zone of a coal mining working face and belongs to the technical field of coal mine grouting reinforcement. For the method for grouting reinforcement of the fault fracture zone of a coal mining working face, a treatment idea of combining regional treatment with local treatment is adopted. The regional treatment is implemented ahead of the coal mining working face by a certain distance and is divided into static treatment and dynamic treatment, and advanced grouting reinforcement treatment is performed; local treatment is implemented in the working face; and the combination of regional treatment and local treatment can better achieve step-by-step

progressive treatment of the fault fracture zone, and can achieve comprehensive and dynamic fault treatment free of blind corners.



21: 2021/04228. 22: 6/21/2021. 43: 6/29/2021  
51: B02C

71: The Affiliated Hospital of Youjiang Medical  
University for Nationalities

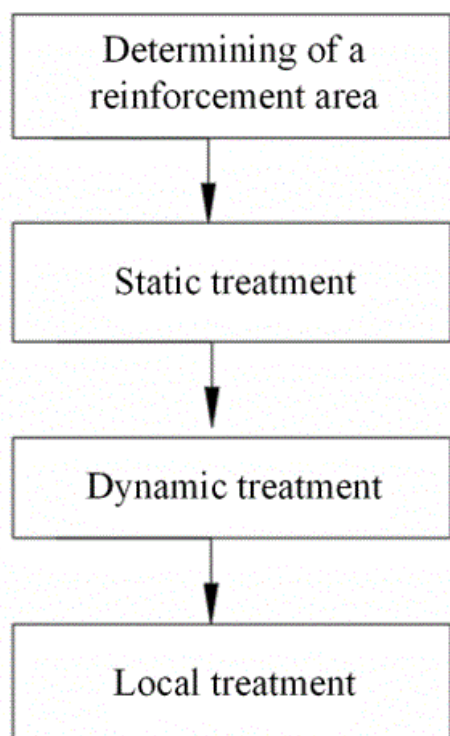
72: Lin Qiqing, Peng Hao, Xu Shuzhen

**54: PORTABLE OPERATIONAL MEDICINE  
CRUSHING DEVICE SUITABLE FOR  
EMERGENCY DEPARTMENT**

00: -

A portable operational medicine crushing device suitable for emergency department comprises a shell, a base, a medicine crushing device and a turntable. The base is rectangular. The front end of the base is provided with a medicine crusher, and the rear end is provided with a turntable which is installed on the base through a turntable bracket. The medicine crusher is cylindrical. The front side of the lower end of the medicine crusher is provided with a window for taking and placing medicines. A spring and a slide block are arranged in the medicine crusher, wherein the spring is on the top and the slide block is on the bottom. A chute is

arranged on the right side surface of the medicine crusher, a slide block can move up and down in the chute, and a medicine striking head is arranged at the lower end of the slide block. The lower end of the medicine striking head is provided with a detachable medicine container. The turntable is provided with a handle. The handle can drive the turntable to rotate, and the turntable drives the slide block to move up to a certain distance. Then the slide block accelerates downward under the action of self gravity and spring force, the medicine striking head strikes the medicine container at high speed, and the rotating handle can repeatedly strike the medicines, so that the medicines can be quickly crushed.



21: 2021/04229. 22: 6/21/2021. 43: 6/29/2021  
51: A61M

71: The First Affiliated Hospital of Chongqing Medical University

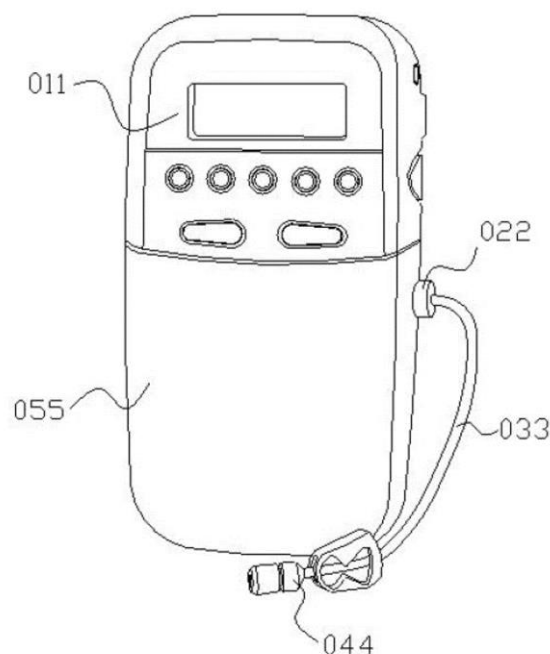
72: Du Huimin, Niu Bailin

**54: MULTIFUNCTIONAL CHEMOTHERAPY CONTROL DEVICE IN ONCOLOGY DEPARTMENT**

00: -

The invention discloses a multifunctional chemotherapy control device in oncology

department, which comprises a microcomputer control terminal, a adapter port and an anti-folding transmission pipe. Wherein the microcomputer control terminal is connected and is in clearance fit with a chemotherapy material placement grid. During the process of hand movement of a patient, the outer rotating layer will be driven to twist. During the twisting process, the outer rotating layer will be pulled and deformed together with pulling and twisting cores, and then transferred to the pulled middle swing bar by a force expanding core, therefore the outer rotating layer is buffered to a certain extent and protected to a certain extent by the edge pulling layer. Let the variable pulling balls be deformed and pulled according to the external force during the twisting process. Let the connected enlarged swing heads drag the twisting cores, so that the reverse angles can play a counter-force against the enlarged swing heads, the external force of the twist layer can not swing excessively, and the twist layer will return after buffering. Therefore when the patient uses the microcomputer chemotherapy injection pump and the hand moves, the pipes will not twist together with the movement, which will affect the injection amount.



21: 2021/04231. 22: 6/21/2021. 43: 6/29/2021  
51: E21C

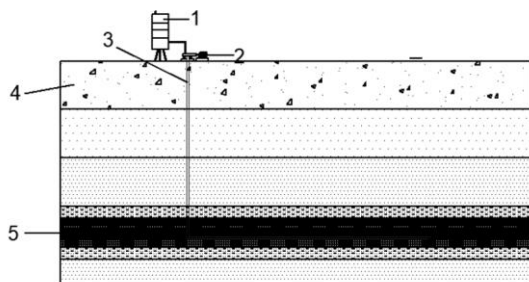
71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: YIN, Dawei, CHEN, Shaojie, LIU, Rui, ZHANG, Libo, JIANG, Ning, WANG, Feng, FENG, Fan, LIU, Qi, Li, Xuelong

**54: METHOD FOR GROUTING STRENGTHENING OF GAS DRAINAGE BOREHOLES UNDER VERY SOFT COAL SEAM AND SYSTEM AND APPLICATION THEREOF**

00: -

The present invention belongs to gas drainage technical field and discloses a method for grouting strengthening of gas drainage boreholes under very soft coal seams, characterized in that, comprising: drilling the covering strata, and laying grouting pipelines; drilling a horizontal borehole when reaching the coal seam, and the horizontal borehole is in a pinnate distribution; laying perforated pipelines in the boreholes immediately after preliminary drilling is done; after laying the grouting pipelines, grouting the pipelines from the ground, until pressure in the grouting station on the ground reaches a predetermined value, so the grouting fluid has filled the boreholes, and penetrated through cracks in the coal seam surrounding the pipelines, and a grouting strengthening area is formed corresponding to the pipelines; and withdrawing the grouting pipelines after grouting; drilling again when the drilling fluid cures and laying the gas drainage pipelines and corresponding auxiliary devices. In the present invention, deformation of coal seam surrounding the boreholes has been effectively controlled, and stability of gas drainage boreholes is promised. In the meantime, gas drainage cost is reduced. Surrounding coal seams are strengthened, and safety of subsequent excavation work is enhanced.



21: 2021/04238. 22: 6/21/2021. 43: 6/29/2021  
51: B60R

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, QIDONG COAL MINE OF ANHUI HENGYUAN COAL ELECTRICITY CO., LTD

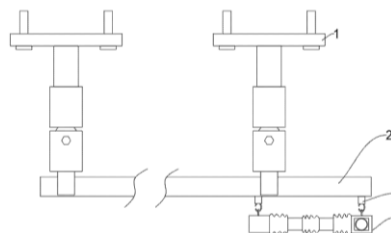
72: ZHU, Chuanqi, GUO, Biao, LI, Shaobo, CHEN, Lipeng

33: CN 31: 202110021845.9 32: 2021-01-07

**54: AIRBAG PROTECTIVE CANOPY FOR SUPPORTING ROADWAY**

00: -

Disclosed is an airbag protective canopy for supporting roadway including an inflatable roof and more than one mounting mechanisms. Each of the mounting mechanisms includes a fixing structure, a suspender, and a connecting member, wherein the suspender is mounted on the fixing structure, the connecting member is mounted on the suspender, and the inflatable roof is mounted on the connecting member. The invention prevents crushed rocks on a top plate of the roadway from falling down, wherein the fixing structure is fixed on a top wall of the roadway through expansion bolts, whereby the crushed rocks on the top plate can be prevented from falling down through the inflatable roof connected to the fixing structure; a plurality of folded airbags are lifted through a first support rod and a second support rod while an intake valve is mounted between two connected folded airbags.



21: 2021/04240. 22: 6/21/2021. 43: 6/29/2021  
51: E21D

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: WANG, Congdong

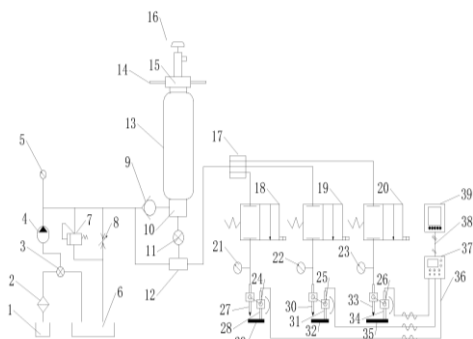
**54: METHOD FOR CUTTING TARGET MATERIAL BY WATER JET BASED ON TARGET MATERIAL VIBRATION FREQUENCY**

00: -

The present invention relates to a method for cutting a target material by a water jet based on a target material vibration frequency. The present invention discloses a method for cutting a target material by a water jet based on a target material vibration



frequency, which is characterized in that: assuming that a target material is horizontally placed, a water jet nozzle is located above the target material, and a jet is vertical to a surface of the target material; a piezoresistive sensor in a resistance type pressure sensor is stuck on a back side of the target material to avoid a jet trajectory; the sensor is connected to a data acquisition card NI USB-6229 and a computer; and LabVIEW software is installed on the computer. The present invention provides an effective detection method for whether a water jet breaks down a target material when cutting the target material.



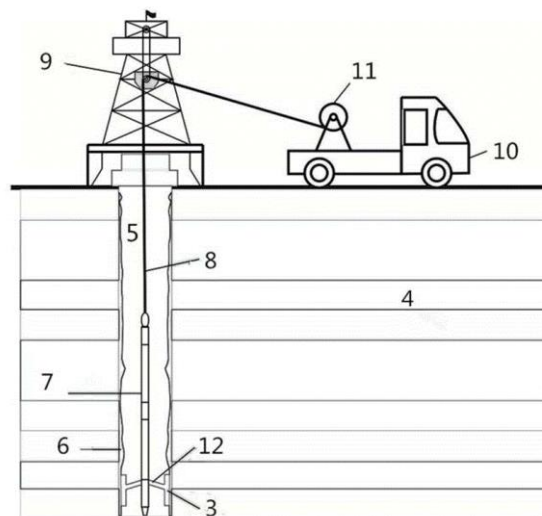
21: 2021/04309. 22: 6/23/2021. 43: 6/24/2021  
51: E21B; G01V  
71: Xi'an Shiyu University  
72: Gao Jianshen, Xue Fei, Liu Yanping, Zhu Kairan, Wu Jie

33: CN 31: 202011019657.4 32: 2020-09-25  
**54: WELL WALL CRACK AND HOLE IDENTIFICATION AND JUDGMENT METHOD BASED ON OIL-BASED MUD ELECTRICAL IMAGING LOGGING**

00: -

The disclosure discloses a well wall crack and hole identification and judgment method based on the oil-based mud electrical imaging logging, including improving the structure of the electric imaging logging device, obtaining the measured impedance  $Z$  of the button electrode according to the current flow path, collecting signals during actual logging and obtaining the calculation expression of the measured impedance  $Z$  of the button electrode, deriving the calculation formula of the mud cake thickness and the formation impedance according to the real part and the imaginary part of the measured impedance of the button electrodes, establishing a homogeneous formation model and forming a

variational problem that the electrical imaging logging satisfies. The disclosure can calculate the formation resistivity and the mud cake thickness, distinguish the types of cracks and holes by calculating the mud cake thickness on the basis of the formation resistivity, and can reflect the change of geological characteristics more truly.



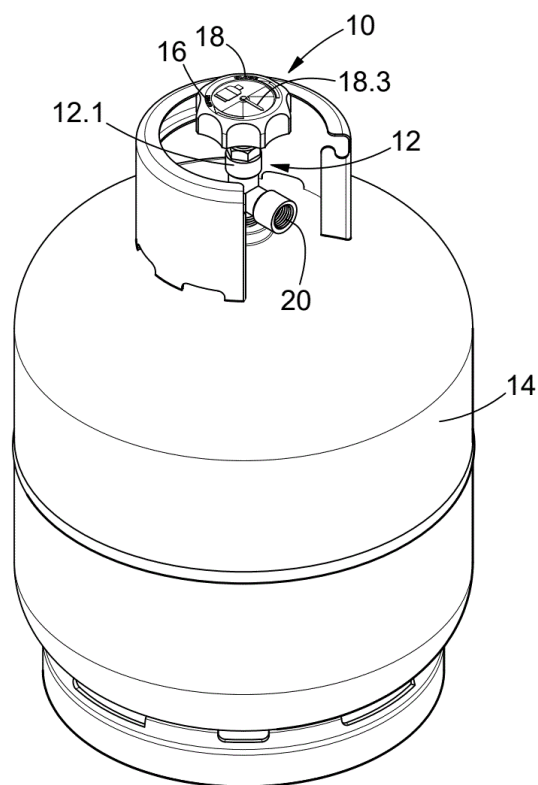
21: 2021/04310. 22: 6/23/2021. 43: 6/24/2021  
51: F16K; F17C; G01F

71: MANZILA, Mabwanga Hugues  
72: MANZILA, Mabwanga Hugues  
33: ZA 31: 2020/04131 32: 2020-07-07  
**54: VALVE WITH INTEGRATED LEVEL INDICATOR**

00: -

A valve with a level indicator which comprises: a valve attachable to a tank which is configured to contain a fluid; and a valve controller for operatively controlling the flow of the fluid released from the tank or supplied to the tank. A level indicator is disposed within the valve controller, the level indicator configured to indicate the level of the fluid in the tank.





21: 2021/04345. 22: 6/24/2021. 43: 7/1/2021  
51: B23K

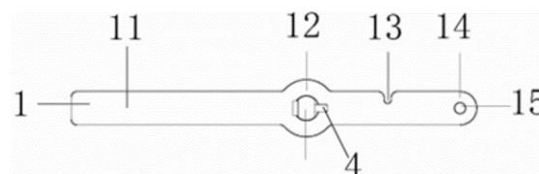
71: Anhui University of Science and Technology  
72: He Xiang, Yang Ke, Wei Zhen, Zhao Xinyuan, Zhang Jiqiang, Ji Jianshuai

#### **54: FLANGE ALIGNER FOR MINE PIPELINE**

00: -

The invention discloses a flange aligner for a mine pipeline, which belongs to a device which is convenient for flange aligner installation of screws when pipelines are installed underground in coal mines. It mainly comprises a left-turning body (1), a right-turning body (2), a pivot section connector (3) and a pin (4). A round hole (12) of the pivoting section of the left turning body is sleeved on the B section of the pivoting section connector, and the diameter of the round hole is slightly larger than that of the B section; A threaded hole (25) of that pivot section (22) of the right turn body is threadedly fixed with the d section of the pivot section connector; The left pivoting section is sleeved on the section B of the pivoting section connector, and the pin is inserted into the pin hole of the pivoting section connector A. The right turning body limiting lever (23) can limit the rotation of the left turning body, and

the right turning body limiting lever is just clamped in the left turning head limiting groove (13). The device has the advantages of simple structure, convenient use, safety and reliability, simple manufacture and wide application range.



21: 2021/04346. 22: 6/24/2021. 43: 7/1/2021  
51: E02D

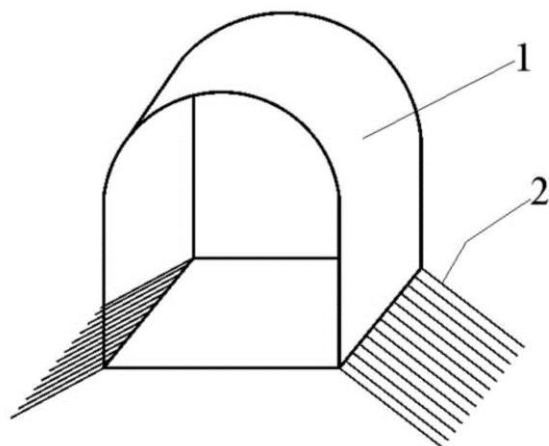
71: Anhui University of Science and Technology, Engineering and Technology Research Institute , Ping'an Coal Mining Co., Ltd., Huaihe Energy holding Group Coal Industry Co., Ltd.

72: Jing Laiwang, Cao Feifei, Jing Wei, Xue Weipei, Hao Pengwei, Wang Chuanbing, Luo Yong, Xu Shaodong

#### **54: A CONSTRUCTION TECHNOLOGY FOR ANCHOR BOLT HOLE AT BOTTOM CORNER OF SOFT ROCK ROADWAY**

00: -

The invention relates to a construction technology of anchor hole at the bottom corner of soft rock roadway, which relates to the field of mine; The method consists of the following steps: (a) Drilling bottom angle grouting holes along the implementation position of roadway bottom corner anchor rod; (b) Grouting the above bottom corner grouting hole with a certain proportion of grouting slurry; (c) Construction of bottom corner anchor hole after 24 hours of grouting, the depth of drilling can reach the length of anchor rod, so as to successfully complete the installation of bottom corner anchor rod. The invention can overcome the problem of the drill stop working caused by the hole wall pressure when the drilling depth is too deep, ensure the smooth drilling of the bottom corner anchor in soft rock roadway, and realize the smooth installation of the bottom corner anchor, so as to effectively inhibit the occurrence of the floor heave and the inner displacement and deformation of the two sides.



21: 2021/04347. 22: 6/24/2021. 43: 7/1/2021  
51: A61M

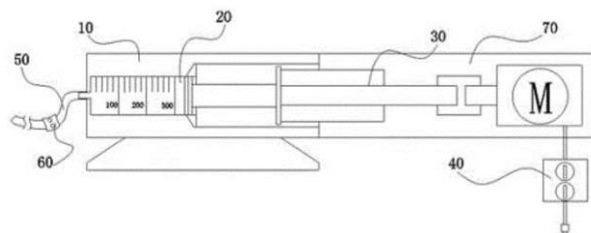
71: Medical Apparatus and Equipment Deployment, Nanfang Hospital, Southern Medical University, Guangzhou, China

72: Shen Zengui, Fang Yihai, Jiang Jinda, Chen Hongwen, Ling Qingqing, Sun Yao

**54: SELF-SERVICE GASTRIC TUBE FEEDING DEVICE WITH CONTROLLABLE SPEED AND TEMPERATURE**

00: -

The invention discloses a self-service gastric tube feeding device with controllable speed and temperature, which comprises: a fixed shell on which a syringe fixing groove is arranged; a syringe placed in the syringe fixing groove, the syringe including a sleeve and push rod, and the sleeve are detachably fixed in the syringe fixing groove and the injection head at the front end of the sleeve extends out of the fixed shell. The push rod can be horizontally moved and sleeved in the sleeve; the drive device fixed at the end of the fixed shell drives the device includes a micro-motor, a shaft sleeve, a screw and a screw sleeve. The output shaft of the micro-motor is connected to the tail of the screw through the shaft sleeve. The screw sleeve is sleeved on the front end of the screw and contacts the push rod in the syringe; the controller is installed on the drive device; gastric tube and thermostat that are sleeved on the front end of the sleeve. The self-service gastric tube feeding device with controllable speed and temperature can realize automatic and uniform feeding and automatic control of feeding time through the controller, without manual operation throughout the process, reducing the labor intensity of feeding by nurses or patients' family members.



21: 2021/04377. 22: 24/06/2021. 43: 7/1/2021  
51: B60L; H01B

71: WUXISHI HUAMEI CABLE CO., LTD

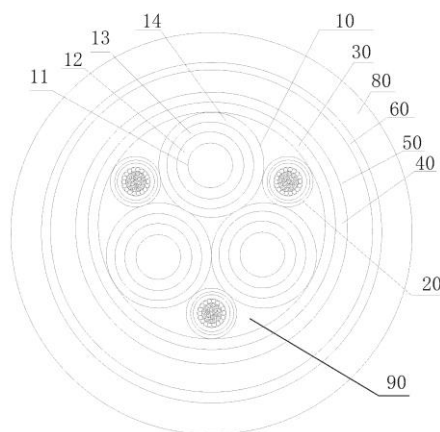
72: ZHANG, Linrui, WANG, Jingyi, CHENG, Bin, HUA, Jian, HUA, Hongbin

33: CN 31: 201910391257.7 32: 2019-05-12

**54: CABLE FOR ELECTRIC VEHICLE CHARGING PILE, PREPARING METHOD AND STRANDING DEVICE OF WEAK CURRENT FLEXIBLE CORE**

00: -

The invention provides a cable for charging piles for electric vehicles, a preparation method thereof, and a stranding device for a weak-current flexible wire core. A flexible wire core is formed by mixing and concentrically stranding aramid fibers and stainless steel wires, wherein the content of the aramid fibers is 80%-90%, and the pitch ratio is 5-10. The cable has good shielding performance and good bend resistance and heat resistance.



21: 2021/04484. 22: 6/29/2021. 43: 7/1/2021  
51: F16L

71: Dalian University of Technology, Yangjiang Panda Haizhuang Technology Co., Ltd.

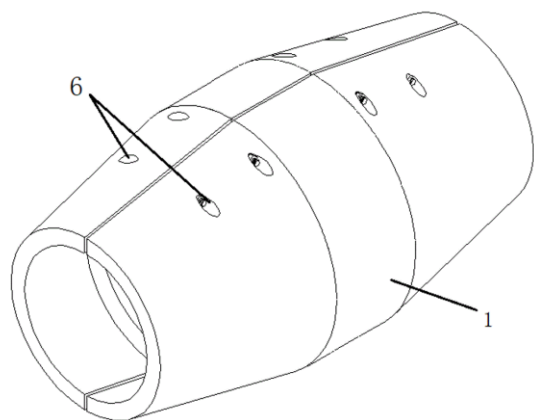
72: ZHANG, Dayong, YU, Lei, GAO, Zhizhao, ZHANG, Xiangfeng, WANG, Gang, FAN, Xuehong, ZHANG, Mingfei

33: CN 31: 202021346619.5 32: 2020-07-10

**54: HOSE FLANGE PROTECTOR**

00: -

Disclosed is a hose flange protector, including two symmetrical flange protector units. Each flange protector unit consists of a flat section in the middle and transition sections at two ends. Two convex structures are arranged inside the flat section along a wall surface to serve as inner partition layers, which are used for closely fitting a pair of flanges of connecting hoses. Bolts connection are applied through holes on the transition sections. When the hose flange protector is used, the two units fit together to wrap the pair of flanges of two connected oil pipes and part of adjacent oil pipes. The hose flange protector can effectively protect oil hose flanges, has smooth and continuous external contour, facilitates movement of the oil pipes to prevent it from getting stuck by an obstacle. The protector is made of polyurethane, which is good for impact resistance, wear resistance, and ultraviolet radiation resistance.



21: 2021/04485. 22: 6/29/2021. 43: 7/1/2021

51: G01N

71: Qingdao Agricultural University

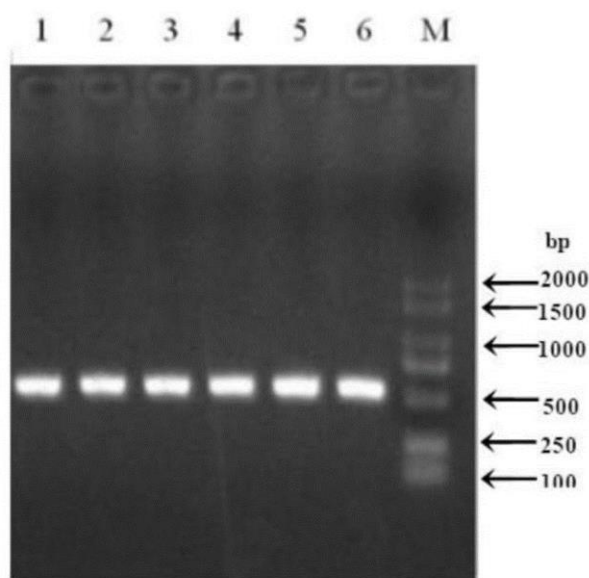
72: Liang Xiao, Liu Baotao, Yu Wanpeng

**54: FLUORESCENCE POLARIZATION IMMUNOASSAY METHOD FOR MULTI RESIDUE OF ANTIBACTERIAL SYNERGISTS BASED ON DHFR**

00: -

The invention provides an antibacterial synergist fluorescence polarization immunoassay method based on DHFR, which is derived from an antibacterial synergist sensitive strain comprising

staphylococcus aureus, streptococcus pneumoniae and mycobacterium tuberculosis. The invention establishes an antibacterial synergist fluorescence polarization immunoassay method based on an antibacterial synergist receptor protein dihydrofolate reductase for the first time. The method is also applied to the multi-residue detection of antibacterial synergists in milk. It also provides method technical support for screening antibacterial synergists in foods. The invention creatively adopts the DHFR derived from the antibacterial synergist sensitive strain, which is the first in the field. The method break through that limitation of the existing conventional method and expand the application range; the method has the advantages of rapidness, simplicity, accuracy.



21: 2021/04486. 22: 6/29/2021. 43: 7/1/3031

51: C12M

71: Qingdao Agricultural University

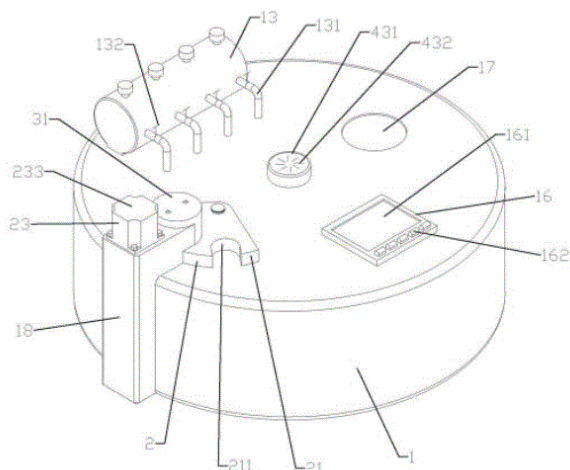
72: Liu BaoTao, Liang Xiao, Li ChangAn

**54: NEW TYPE OF BACTERIA INCUBATOR**

00: -

The invention discloses a bacterial incubator, including a box, the box is provided with a transfer device, an extraction device and an oscillation device. The transfer device includes transfer tray, transfer block and transfer block driving mechanism, the extraction device includes fixed barrel, movable barrel, piston, piston rod and piston rod limiting mechanism, the oscillation device includes clamping plate, clamping seat, rotating shaft and rotating shaft

driving motor, the box is provided with a container, and the box is provided with a heating device. The box is provided with a controller, the controller is provided with a display and a button. The present invention has the features of simple structure, easy to take the petri dish, automatic extraction and good oscillation effect.

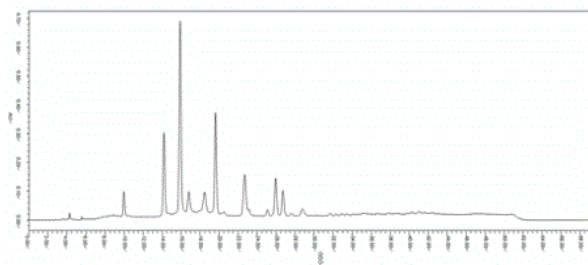


21: 2021/04487. 22: 6/29/2021. 43: 7/1/2021  
51: G01N  
71: Institute of Pomology of CAAS  
72: Yang Ling, Cong Peihua, Lyu Deguo, Qin Sijun  
**54: METHOD FOR DETECTING MONOSACCHARIDES IN APPLE PULP CELL WALL BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**

00: -

The invention discloses a method for detecting monosaccharides in apple pulp cell wall by high performance liquid chromatography, which comprises the following steps: firstly, extracting polysaccharides in apple pulp cell wall and hydrolysing with acid, then carrying out enzymolysis, monosaccharides derivatization, and finally exposing samples in a sample bottle to the high performance liquid chromatography for detection. The monosaccharides obtained by the method of the invention can be stored in a short time before derivatization, which is more practical compared with the time requirement of gas chromatography and relatively more accurate in determination. The optimization method in the invention can be used for detecting monosaccharides in apple pulp cell wall. The apple sample in the detection method of the invention only has a hydrolysis process, and

monosaccharides derivatives in the sample after hydrolysis are more stable and more accurate than those in gas chromatography; what's more, when the HPLC method is used for monosaccharides composition analysis, it has the advantages of high separation speed, high resolution, good reproducibility and the like; and by adopting the detection method of the invention, monosaccharides in apple pulp cell walls can be directly analysed by using the HPLC method combined with a universal detector.



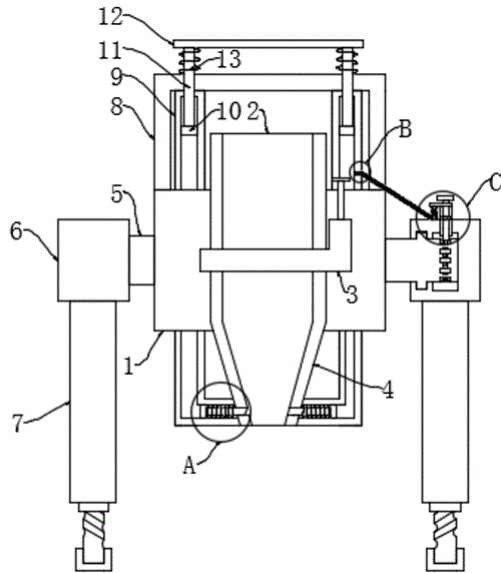
21: 2021/04488. 22: 6/29/2021. 43: 7/1/2021  
51: E21D  
71: China University of Mining and Technology  
72: Yao Wenjie, Yang Weihao, Huang Xin, Fu Ran, Sun Peixin, Song Fangnian  
33: CN 31: 202110349638.6 32: 2021-03-31  
**54: AN AUXILIARY CONSTRUCTION APPARATUS FOR HIGH-STRENGTH CONCRETE SHAFT LINING STRUCTURE**

00: -

Disclosed is an auxiliary construction apparatus for high-strength concrete shaft lining structure, in particular to technical field of concrete shaft wall construction, comprising main body, pouring apparatus and adjusting apparatus; pouring and adjusting apparatuses are set to main body; hollow groove is set to main body where pouring apparatus set inside said hollow groove; main body comprises erection seat, rotating shaft, support frames, telescopic support legs and hand holder; said invention controls the flow of concrete by controlling the size of the opening of the disc valve, which can avoid concrete overflow, has no need to manually hold the concrete pump truck discharge outlet hose for guiding and fixing, thus it reduces labor consumption and avoids safety accidents; when close valves on the left and right ends are closed, concrete can not pass through the pouring port,



avoiding said concrete flowing out during the transfer of the pouring point, thus further saves concrete resources; pouring point can be changed by adjusting the angle of the apparatus without moving the apparatus, which improves the convenience.



21: 2021/04489. 22: 6/29/2021. 43: 7/1/2021

51: B62B

71: Henan University Of Urban Construction

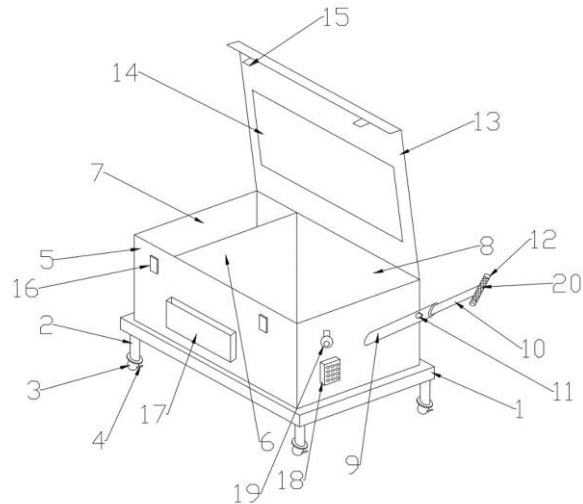
72: Zhang Shuo, Zhu Hanyu, Long Dan, Zheng Chao, Zhai Juyun, He Ruixia

#### **54: A MULTIFUNCTIONAL CART SPECIAL FOR CIVIL ENGINEERING**

00: -

The invention discloses a multifunctional cart special for civil engineering, comprising: baseplate, four corners on the bottom of the baseplate are provided with support legs, and the bottom of the support legs are provided with universal wheels, the universal wheels are all provided with pedal locking buckles, and a case is fixedly provided above the baseplate, and the case is separated into a tool groove and a material groove by a partition plate, a bottom sleeve inclined to side surface of the case is fixedly arranged on the side surface of the case, and a top rod is telescopically arranged in the bottom sleeve, an adjustment knob for controlling the length of the top rod is provided on the bottom sleeve, and a pushing handle is fixedly provided at one end of the top rod away from the bottom sleeve. The invention has following advantages: reasonable structure

design, convenient movement and fixed position, good fixing effect, convenient to place tools and materials separately, convenient protection of tools and materials in the cart, communication and camera monitoring functions, satisfying the use requirements of civil engineering.



21: 2021/04490. 22: 6/29/2021. 43: 7/1/2021

51: B64G; G05B; G05D; G06F

71: Northwestern Polytechnical University

72: Yan Xunliang, Wang Shumei, Wang Peichen, Ge Song, Liu Haili, Wang Kuan

#### **54: A TRACKING GUIDANCE METHOD FOR ONLINE CORRECTION OF STANDARD WAVY REENTRY TRAJECTORIES**

00: -

The present disclosure relates to a tracking guidance method for online correction of standard wavy reentry trajectories, comprising the following steps of: establishing a model and determining the number and position of path points based on the current information; designing longitudinal guidance logic based on proportional guidance laws to determine longitudinal flight paths; designing lateral guidance logic with minimum control force, determining lateral flight paths of reentry vehicles and tracking the path points accurately; and calculating enabled instructions, and calculating the tilt and attack angle control data based on the lateral and longitudinal guidance logic. The advantages of the present disclosure are as follows: Based on analytical guidance laws, a tracking guidance method for online correction of standard wavy reentry trajectories is obtained, which solves the problems of unstable guidance performance,



complex parameter adjustment and poor universality, improves the adaptability to navigation deviations and overall reliability, provides a method of how to calculate the operating route, reduces energy consumption to a great extent, and has broad promotion and application value.

21: 2021/04495. 22: 6/29/2021. 43: 7/1/2021  
51: E21F

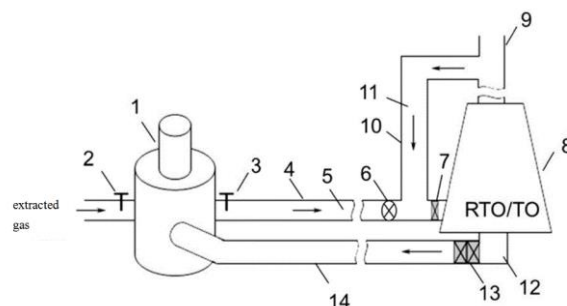
71: Anhui University of Science and Technology, China Coal Technology Engineering Group Chongqing Research Institute, Anhui Kunlang New Energy Co., Ltd.

72: Li, Yang, Yuan, Benqing, Jin, Gang, Liu, Bingjun, Yao, Tingting, Xu, Zunyu

#### **54: A COAL MINE GAS PASSIVATION SAFETY TRANSPORTATION SYSTEM**

00: -

The present invention discloses a coal mine gas passivation safety transportation system which includes a gravity regulator diffuser, a gas transportation pipeline, an electronic control regulating valve, a pump, a coal mine gas regenerative oxidation/direct combustion device, a chimney, an exhaust gas return pipeline, a frequency conversion fan and an exhaust gas transportation (glass fiber) air cylinder; three-parameter sensors are arranged at the system, which are used to detect the methane concentration, oxygen concentration and air pressure in the gas. The system can provide the passivated gas that is not explosive for coal mine gas regenerative oxidation/direct combustion device. The gas passivated by the system not only loses its explosiveness, but also has the characteristics of non-explosion even when air or methane is added, which solves the safety problem of low-concentration gas during its transportation, and can be used for coal mine gas regenerative oxidation/direct combustion and low-concentration gas boiler combustion-supporting, etc..



21: 2021/04496. 22: 6/29/2021. 43: 7/1/2021  
51: C12N

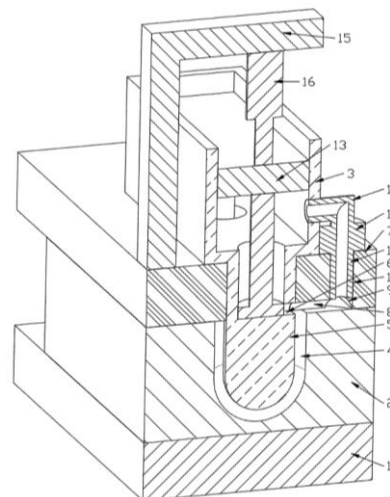
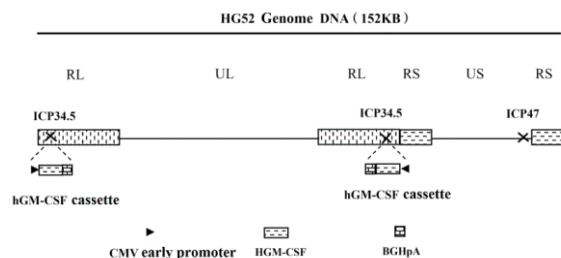
71: Binhui Biopharmaceutical Co., Ltd.

72: LIU, Binlei

#### **54: RECOMBINANT HERPES SIMPLEX VIRUS VECTOR, RECOMBINANT VIRUS AND PHARMACEUTICAL COMPOSITION THEREOF**

00: -

The present invention disclosure a recombinant herpes simplex virus vector, comprising a genome derived from wild type II herpes simplex virus HG52 strain, in which the ICP34.5 gene and ICP47 gene are deleted, and a human granulocyte macrophage colony stimulating factor expression cassette was inserted into the deleted ICP34.5 gene site. When the virus vector of the invention is used for treating animal solid tumor, the curative effect is better than the existing oncolytic recombinant type I herpes simplex virus vector. The virus vector of the invention retains ICP6, which is often removed from the existing recombinant type I herpes simplex virus vector. Not only the safety is not affected, the production efficiency is high, but also it can produce stronger oncolytic activity than the group I herpes simplex virus vector. The virus vector of the invention eliminates the gene of ICP34.5, and has good safety and selectivity; ICP47 gene was deleted to promote the immune response and enhance the oncolytic activity. In addition, the virus vector is inserted into the gene sequence of human granulocyte macrophage colony stimulating factor (hGM-CSF), thereby enhancing the anti-tumor immune response.



21: 2021/04497. 22: 6/29/2021. 43: 7/1/2021

51: A61J

71: XINCHANG COUNTY HONGHAI MACHINERY CO., LTD.

72: ZHANG, Guohong

#### **54: AUTOMATIC GLUE DISCHARGING DEVICE FOR EMPTY CAPSULE PRODUCTION LINE**

00: -

Disclosed is an automatic glue discharging device for an empty capsule production line, which relates to the technical field of empty capsule production. The device includes an operating table. A die table is mounted on the operating table. A glue supply box is slidably fitted above the die table and provided with a plurality of die grooves. A bottom surface of the glue box is communicated with a plurality of punches slidably fitted in the die grooves. The punch is laterally provided with a glue outlet hole communicated with the glue box. A material control assembly is slidably fitted in the glue box. The bottom surface of the glue box is communicated with the plurality of punches slidably fitted in the grooves. A bottom surface of a return plate is provided with return grooves communicated with the die grooves. A communication groove is connected among the plurality of return grooves.

21: 2021/04535. 22: 6/30/2021. 43: 7/7/2021

51: G06F

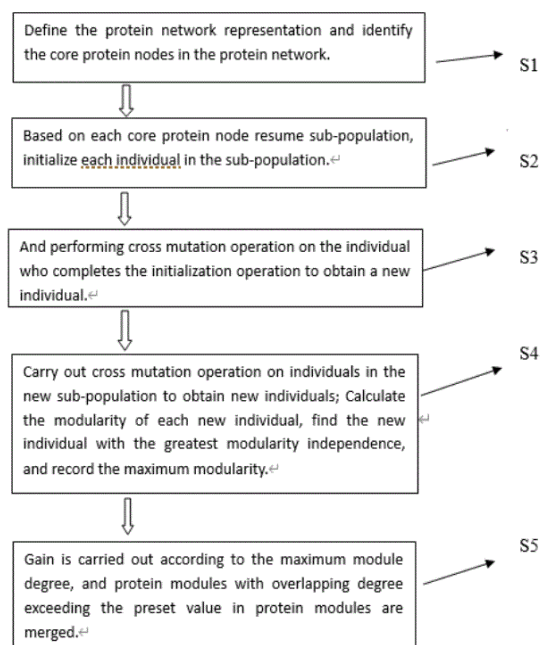
71: Xiangya Third Hospital of Central South University

72: Li Peng, Luo Aijing, Ding Changsong, Min Hui, Ouyang Wei, Zhong Zhuqing, Xue Juan, Liu Juan, Li Bo, Yi Na

#### **54: METHOD AND DEVICE FOR IDENTIFY FUNCTIONAL MODULES IN DYNAMIC PROTEIN NETWORK**

00: -

The invention disclose a method and a device for identifying functional module in a dynamic protein network, which define that representation of a protein network and identify a core protein node in a protein network. Establishing a sub-population based on each core protein node, and initializing each individual in the sub-population; Performing cross mutation operation on the individual who completes initialization operation to obtain a new individual; Performing cross mutation operation on individuals in the new sub-population to obtain new individuals, calculating the modularity of each new individual, searching for the new individual with the largest modularity and recording the maximum modularity; Gain is carried out according to the maximum module degree, and protein modules with overlapping degree exceeding the preset value in protein modules are merged. By adopting the technical scheme of the invention, richer protein modules can be better excavated.



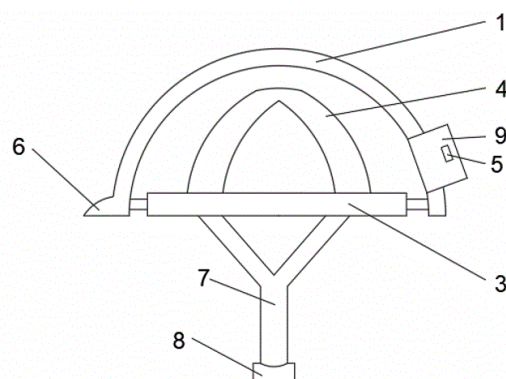
21: 2021/04536. 22: 6/30/2021. 43: 7/7/2021  
51: A42B

71: Anhui University of Science and Technology  
72: Zhu Yanna, Zhang Guisheng, He Gang

#### 54: MINE MULTIFUNCTIONAL SAFETY HELMET AND IMPLEMENTATION METHOD THEREOF 00: -

The invention discloses a mine multifunctional safety helmet and an implementation method thereof which comprise a protective shell. The inner surface of the protective shell is fixedly connected with a fixing head ring through connecting blocks. The upper surface of the fixing head ring is fixedly connected with a bracket. The front and rear sides of the lower surface of the fixing head ring are fixedly connected with fixing straps. The lower ends of two fixing straps are fixedly provided with the same chin rest. A brim is arranged on one side of the outer surface of the protective shell. A fan cover is fixedly installed on the other side of the outer surface of the protective shell. Three connecting rods are fixedly connected to the inner surface of the fan cover. The other ends of the three connecting rods are fixedly connected with the same motor. A first battery box is arranged on the right side of the motor. The fan cover is hinged with a first box cover at a position close to the first battery box. The safety helmet provided by the invention has the functions of lighting and blowing, and is provided with battery boxes. Therefore the batteries can be conveniently installed without connecting a power

line, and the worker can use the safety helmet more conveniently.



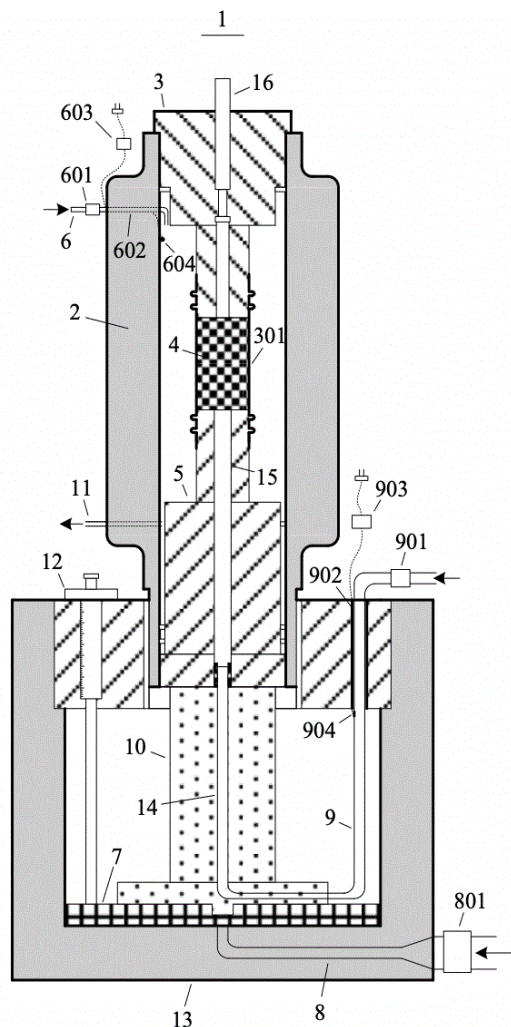
21: 2021/04537. 22: 6/30/2021. 43: 7/7/2021  
51: A61B

71: Anhui University of Science and Technology  
72: Zhang Guisheng, Zhu Yanna, Huang Yourui

#### 54: TRIAXIAL LOAD SEEPAGE DEVICE FOR CT AND IMPLEMENTATION METHOD THEREOF 00: -

The invention discloses a triaxial loading seepage device for CT and an implementation method thereof, which comprises a seepage device. The main seepage device is provided with a loading cavity, an upper pressure head, a rubber sleeve, a sample, a lower pressure seat, a pressure stabilizing pipe inlet, a number one pressure gauge, a number one electric heat pipe, a number one temperature controller, a number one thermocouple, a bearing plate, an oil inlet pipe, a number three pressure gauge, a seepage hose, a number two pressure gauge, a number two electric heating pipe, a number two temperature controller, a number two thermocouple, a transmission column, a pressure stabilizing pipe outlet, a displacement meter, a base, a primary seepage hard pipe, a secondary seepage hard pipe and a seepage output hard pipe. The application results of the device show that the structure is simple, the loading is stable, the rubber sleeve is convenient, and the sleeve joint is firm; The experiments of uniaxial loading, triaxial loading, seepage and temperature control are realized with the aid of the CT instrument; The micro-structures such as cracks and pores in the sample can be effectively observed with the aid of the CT instrument, and the device is suitable for

popularization and use in CT triaxial loading scanners.



21: 2021/04538. 22: 6/30/2021. 43: 7/7/2021

51: G08B

71: China Three Gorges University, Wuhan Yangshi Technology Co., Ltd.

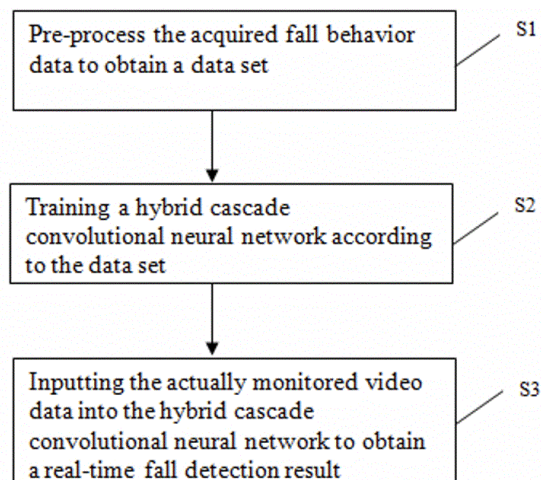
72: Liu Junqing, Yan Bing, Kang Wei, Wang Jianhua

**54: FALL DETECTION METHOD AND DEVICE BASED ON HYBRID CASCADE CONVOLUTION**

00: -

The invention discloses a fall detection method and device based on hybrid cascade convolution, which comprises the following steps of: pre-processing acquired fall behaviour data to obtain a data set; Training a hybrid cascade convolutional neural network according to the data set; And inputting the actually monitored video data into the hybrid cascade convolutional neural network to obtain a

real-time fall detection result. By adopting the technical scheme of the invention, higher recognition accuracy can be realized.



21: 2021/04539. 22: 6/30/2021. 43: 7/7/2021

51: G01M; G01N

71: Anhui University of Science and Technology

72: Xu Yongjie, Huang Xianwen, Wang Xuesong, Li Wei, Su Yi, Zhang Xiaowu, Han Xiao, Yao Zhishu

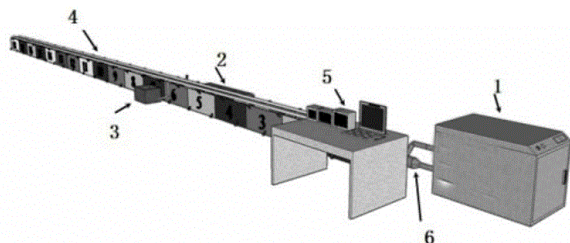
**54: HIGH-PERFORMANCE GROUND SOURCE HEAT PUMP TESTING SYSTEM AND OPERATION METHOD THEREOF**

00: -

The invention discloses a horizontal geothermal extraction test system, which comprises a heat source device, a high-temperature control device, a low-temperature control device, an acoustic emission acquisition device and a horizontal buried pipe simulation device. A water heating source is provided by a heat source device, and the water is heated by a heating water tank and then connected to a test sleeve in a horizontal buried pipe simulation device; the horizontal buried pipe simulation device is also provided with a high-temperature control device and a low-temperature control device for modeling the influence of an external temperature environment on the ground and backfill materials thereof; an acoustic emission receiver is attached to the water circulation pipeline for collecting the sound of fluid flow in the pipeline; and a plurality of temperature and humidity sensors are arranged. According to the requirements of acquisition and testing, the system of the invention is also provided with a control terminal, and the control terminal



acquires and sets the temperature sensors of various points to be tested and the sound data of fluid flow for experimental analysis, so that the data of floor heating testing is more comprehensive and effective.



21: 2021/04541. 22: 6/30/2021. 43: 7/7/2021  
51: C01G

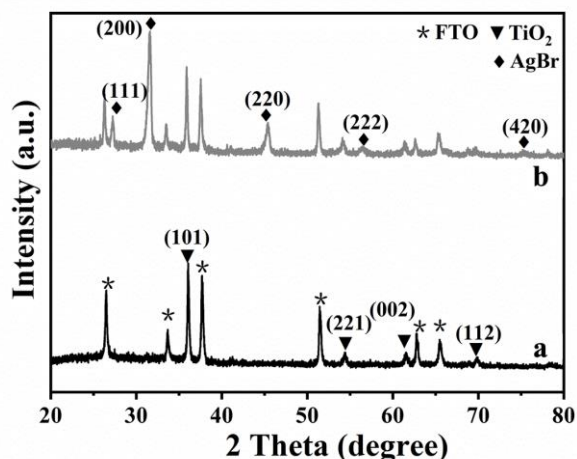
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Wang, Yanfen, Liu, Yin, Gao, Juan, Cheng, Xiang, Li, Mengting

**54: PREPARATION METHOD OF AG-AGBR/ TiO<sub>2</sub> COMPOSITE NANOROD ARRAY FILM**

00: -

The invention belongs to the field of photocatalytic materials, in particular to a preparation method of Ag-AgBr/ TiO<sub>2</sub> composite nanorod array film. This composite film comprises the active components of Ag-AgBr and TiO<sub>2</sub> nanorod arrays, and has a structure in which one-dimensional TiO<sub>2</sub> nanorod arrays modified by Ag-AgBr heterojunction nanoparticles are grown on the surface of FTO conductive glass. The preparation method provided by the invention is easy to control without the expensive equipment, and is suitable for large-scale production. By combining the surface plasmon resonance effect with the heterostructure, the Ag-AgBr/ TiO<sub>2</sub> composite nanorod array prepared by the invention displays the expanded solar spectrum response range, high efficient photo-generated carrier separation efficiency, good photoelectrochemical performance and photocatalytic activity driven by visible light, with the degradation rates of Rhodamine B and methyl orange under visible light up to 58% and 80% respectively.



21: 2021/04544. 22: 6/30/2021. 43: 7/7/2021  
51: B01J

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

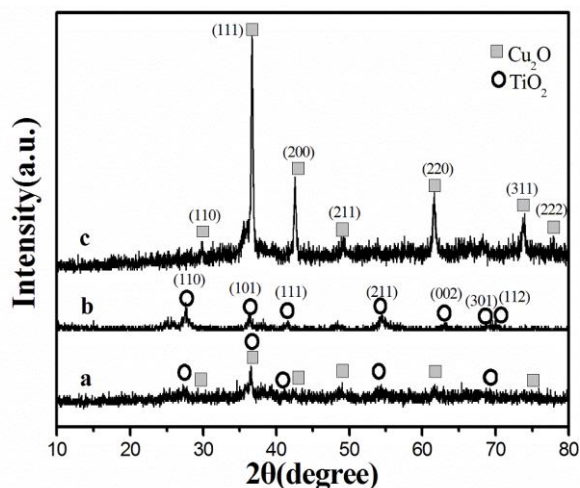
72: Wang, Yanfen, Liu, Yin, Gao, Juan, Cheng, Xiang, Li, Mengting

**54: Cu<sub>2</sub>O/ TiO<sub>2</sub> COMPOSITE PHOTOCATALYTIC MATERIAL AND ITS PREPARATION METHOD**

00: -

The invention discloses a Cu<sub>2</sub>O/ TiO<sub>2</sub> composite photocatalytic material, which is a hierarchical Cu<sub>2</sub>O/ TiO<sub>2</sub> composite photocatalytic material with large specific surface area and porous structure obtained from surface modification of Cu<sub>2</sub>O nanoparticles based on the preparation of hierarchical TiO<sub>2</sub> hollow microstructure by hydrothermal method. The Cu<sub>2</sub>O/ TiO<sub>2</sub> composite photocatalytic material according to the present invention has a simple preparation process and unique morphological structure, and thus it not only extends the range of light response to the visible light region, but also shows excellent photodegradation effect and good cycle stability performance in the treatment of organic dye wastewater.





21: 2021/04546. 22: 6/30/2021. 43: 7/7/2021  
51: G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

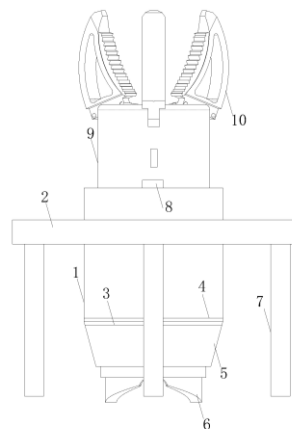
72: CHENG, Gang, CAO, Jianbing, FENG, Zhaohe, ZHOU, Junpeng, QIAN, Chao, CAO, Yanan, TIAN, Xing

33: CN 31: 202110239099.0 32: 2021-03-04

**54: A DETECTION DEVICE SUITABLE FOR MEASURING METHANE GAS IN COAL MINE**

00: -

The present invention relates to a detection device for detecting methane gas in a coal mine, which includes a laser detector, a sleeve, a loading cylinder and a bottom cylinder. The bottom cylinder makes a telescopic motion along the loading cylinder, an annular inner plate is fixed on an inner wall of the loading cylinder, a sealing sleeve is fixed on a bottom of the inner plate, the cross section of a bottom of the sealing sleeve is rectangular, magnet bars are fixed on two sides of the bottom of the sealing sleeve, opposite sides of the two magnet bars have opposite magnetism, and sealing gaskets are fixed on the opposite sides of the two magnet bars; a magnet plate is fixed on each of two sides of an inner wall of the bottom cylinder, and an access space is formed between the magnet plates on the two sides.



21: 2021/04639. 22: 7/5/2021. 43: 7/14/2021

51: A61K; C07D; A61P

71: Guangxi Zhuang Autonomous Region, Academy of Agricultural Sciences

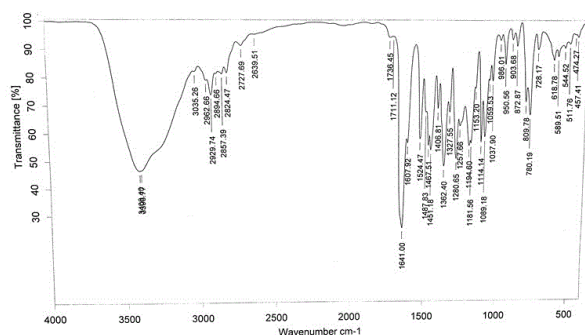
72: Xuemei HE, Yayuan TANG, Jian Sun, Li LI, Changbao LI, Guoming LIU, Dongqing YE, Zhichun LI, Ying YANG, Jiemin LI, Zhugui ZHOU, Jie TANG, Qian CHEN, Fengjin ZHENG, Ming XIN, Ping YI

33: CN 31: 202110055018.1 32: 2021-01-15

**54: APPLICATION OF ALKALOID COMPOUNDS IN PREPARING DRUGS FOR INHIBITING PLATELET AGGREGATION**

00: -

The invention belongs to the technical field of the application of active compounds for inhibiting platelet aggregation, and specifically relates to the application of alkaloid compounds in the preparation of drugs for inhibiting platelet aggregation. The alkaloid compounds are extracted from banana flowers. The invention uses banana flowers as raw materials to extract alkaloid compounds, which can turn waste into treasure, make full use of resources, and improve the economic value of the banana planting industry, and the extracted alkaloid compounds have better platelet aggregation inhibition activity, and are used for preparation Antiplatelet drugs provide more options for the treatment of thrombotic diseases.



Sample : Ext528	Frequency Range : 399.246 - 3996.32
Technique : KBr压片	Resolution : 4
Customer : 171225R10	Zeroing : 2
	Instrument : Tensor27
	Acquisition : Double Sided,For
	Sample Scans : 16

Construct chaotic sequence and modulate chaotic frequency signal of pulsed electric field

Through the DSP controller of high-voltage chaotic pulse power supply, the mapped chaotic signal is programmed and simulated, and the on-off of the pulse switch is controlled to realize the generation of chaotic frequency pulse electric field

Chaotic pulse electric field with regulated frequency is applied to waste oil emulsion, and high-voltage pulse electric field with constant amplitude, equal pulse width and chaotic frequency is used to demulsify and dehydrate waste oil emulsion, so that the droplets in waste oil can be fully stretched and deformed without breaking, and can resonate near their respective resonance frequencies, thus realizing efficient coalescence demulsification.

21: 2021/04640. 22: 7/5/2021. 43: 7/14/2021

51: B01D; C02F

71: Chongqing Technology and Business University  
72: Liu Yunqi, Gong Haifeng, Liao Zhixiang, Peng Ye

#### 54: METHOD AND SYSTEM FOR DEMULSIFICATION OF WASTE OIL EMULSION BY CHAOTIC FREQUENCY PULSED ELECTRIC FIELD

00: -

This invention discloses method and system for demulsification of waste oil emulsion by chaotic frequency pulsed electric field. Firstly, the chaotic high-voltage pulsed electric field with constant amplitude and equal pulse width is generated by regulating the chaotic pulse frequency. The frequency in the frequency chaos includes the resonance frequency of emulsion droplets, and then the high voltage pulsed electric field with frequency chaos is applied to the waste oil emulsion for demulsification and dehydration. According to the characteristics of demulsification and dehydration by pulse electric field, the chaotic frequency electric field with constant amplitude and equal pulse width is used to make up for the defect that the common constant pulse electric field can not cover the resonance frequency of droplets in emulsified oil. The constant amplitude and equal pulse width can avoid the influence of uncertain electric field amplitude and pulse width on demulsification efficiency, and the pulse rate is chaotic and adjustable, which can fully cover the resonance frequency of emulsion droplet electric field, and can exploit the maximum efficiency of electric field demulsification and meet the requirements of industrial.

21: 2021/04641. 22: 7/5/2021. 43: 7/14/2021

51: G01N

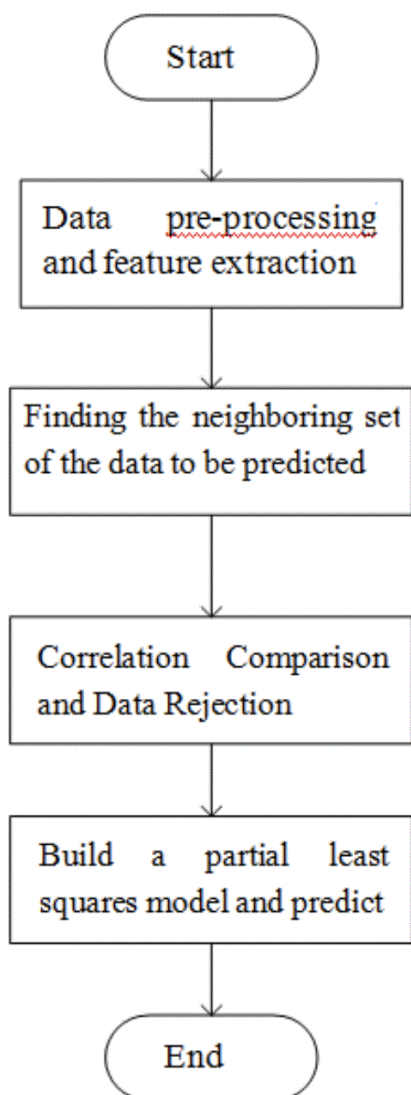
71: Wang Guoliang

72: Wang Guoliang, Wang Yang

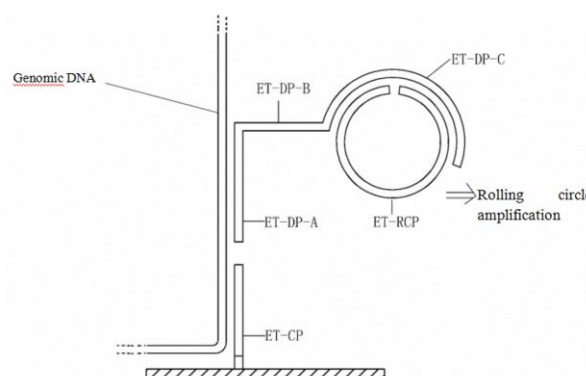
#### 54: OIL CONCENTRATION PREDICTION METHOD BASED ON DATA REJECTION AND LOCAL PARTIAL LEAST SQUARES

00: -

The present invention discloses a method for predicting oil concentration based on data rejection and local partial least squares, comprising the following steps: S1, after the spectral data is pre-processed and features are extracted, the Euclidean distance between the data to be predicted and the modeled data is calculated, wherein the spectral data is subjected to feature extraction by using the wavelet transform method, selecting the decomposed low frequency part as the features of the spectrum, and then finding the modeling data set that is closer to the data to be predicted by calculating the distance between the data to be predicted and the modeling data as the neighboring set of the data to be predicted. S2. Calculate the correlation coefficients of the neighboring set and the data to be predicted and compare them, establish a rejection rule, and reject some of the modeled data and the data to be predicted. The present invention uses part of the data for modeling and certain rejecting of the data to complete the concentration prediction of Raman spectra, ensuring the accuracy of the prediction results within a certain range and making the prediction results of the model more accurate.



associated with virulence of *Edwardsiella tarda* were selected from the gene chip probe set described in the present invention, and a gene chip rolling circle probe was developed to detect *Edwardsiella tarda* with the gene chip probe set. The method is highly sensitive and can achieve rapid, accurate and convenient detection, it is important for laboratory research and production practices such as food safety, aquaculture, seafood quality and safety testing, and marine environmental monitoring.



21: 2021/04643. 22: 7/5/2021. 43: 7/14/2021

51: A23L

71: Hangzhou Normal University

72: Xu Mingfeng, Xu Jiyin, Zhu Qin

#### **54: MAYONNAISE WITH LOW GREASY TASTE AND PREPARATION METHOD THEREOF**

00: -

The present invention relates to the technical field of mayonnaise. Aiming at the problem of high oil content in mayonnaise and bringing greasiness, it discloses a mayonnaise with low greasy taste and a preparation method thereof. The raw material components are composed of the following parts by weight: 10-15 parts of egg yolk, 65-75 parts of salad oil, 8-12 parts of edible vinegar, 3-5 parts of cream; Among them, the salad oil used is used after lipase hydrolysis treatment, and the decomposed salad oil accounts for 20-30 wt% of the total salad oil mass. The raw materials are mixed during preparation and fully mixed in a CO<sub>2</sub> supercritical state. The mayonnaise of the present invention uses the salad oil after enzymatic hydrolysis as a vegetable oil raw material, and is combined with cream, edible vinegar, etc., so that the greasy feeling of the prepared mayonnaise is obviously reduced. The preparation process combined with the enzymatic hydrolysis system improves the high degree of

21: 2021/04642. 22: 7/5/2021. 43: 7/14/2021

51: C12Q

71: Xuzhou University Of Technology

72: Hou Jinhui, Li Tongxiang, Huang Tianzi

#### **54: GENE CHIP PROBE SET FOR DETECTION OF EDWARDSIELLA TARDA**

00: -

The present invention discloses a gene chip probe set for detection of *Edwardsiella tarda*, which belongs to the technical field of food safety and foodborne disease-causing microorganism detection. The gene chip probe set includes capture probe ET-CP, detection probe ET-DP, and rolling circle probe ET-RCP, wherein the detection probe ET-DP is composed of ET-DPA, ET-DPB, and ET-DPC connected sequentially in the 5'-3' direction. DNA fragments of specific target protein genes

mixing and stability of the mayonnaise system, while strengthening the reduction of greasy taste, and keeping the low greasy taste for a longer time, which is highly accepted by consumers.

21: 2021/04644. 22: 7/5/2021. 43: 7/14/2021

51: G01N

71: Northwestern Polytechnical University

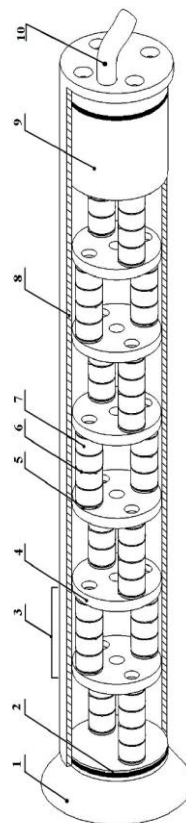
72: Teng Duo, Yang Yixin

**54: A CASCADE-CONNECTED TRANSDUCER WITH MULTI-SEGMENTED ARRANGEMENT**

00: -

A novel cascade-connected transducer is presented in this invention. Its main components include piezoelectric stacks, bending disks, radiating head, additional weight housing, prestressed bolts and other appurtenances. Radiating head and additional weight housing are assembled at both ends of transducer. Radiating head is the region of transmitting the acoustic energy. Generally, its material should be light metal, while additional weight housing should be comparatively heavy metal. As the derivation, the more acoustic energy will be transmitted from the head. Moreover, additional weight housing has the functions of watertightness and additional weight at the end of transducer. Every piezoelectric stack is glued closely together in series and wired in parallel. Every cascaded segment includes two columns of piezoelectric stacks, fastened to the bending disks alongside each other by prestressed bolts. All the cascaded segments are connected in series in the middle, and the number of multi-segments can be adjusted according to the application requirements. On the premise of ensuring small transverse size of transducer, the invention makes full use of longitudinal space. The reasonable coupling of longitudinal vibration of piezoelectric stacks and flexural vibration of bending disks plays an important role in lowering the resonance frequency of the transducer. Hence, the above coupling makes it possible to implement the characteristics of low frequency, miniaturization, and high power. The cascade-connected transducer can work effectively in 200Hz-50kHz frequency range. The transducer proposed in this invention also has the advantages of simple structure, convenient manufacture, low cost and stable performance. This type of transducer can be widely used in the equipment and device in

the fields of detecting, communicating, prospecting, etc. It is especially suitable for various underwater vehicles and for arrangement in all kinds of SONAR equipment to achieve special acoustic performances.



21: 2021/04653. 22: 7/5/2021. 43: 7/14/2021

51: B24C

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

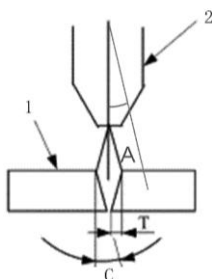
72: WANG, Li, WANG, Yan, ZHANG, Guorong, XIE, Huaibei, YANG, Hongtao

**54: PRE-MIXED ABRASIVE WATER JET MACHINING METHOD FOR CUTTING TUNGSTEN PLATE FOR FUSION REACTOR**

00: -

The present invention provides a pre-mixed abrasive water jet machining method for cutting tungsten plate for fusion reactor, which relates to the technical field of machining tungsten plate for fusion reactor. Through the provision of a pre-mixed abrasive water jet cutting system, the pre-mixed abrasive water jet cutting system cuts the tungsten plate for fusion reactor by an abrasive water jet. In the present invention, the pre-mixed abrasive water jet cutting

system cuts the tungsten plate for fusion reactor by the abrasive water jet, which greatly improves the working efficiency, and machining quality, with reasonable design and suitability of promoting widely.



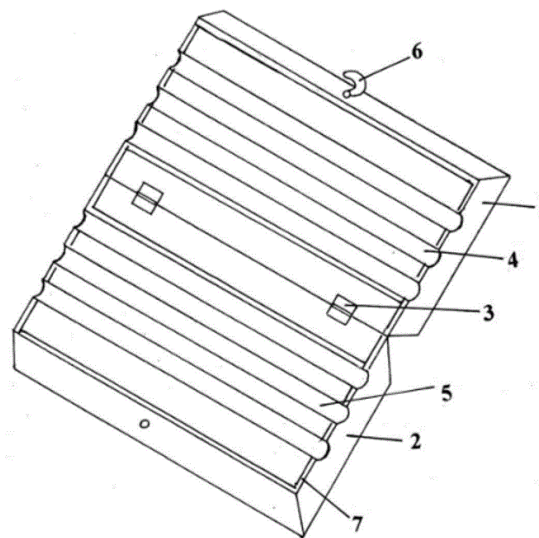
21: 2021/04657. 22: 05/07/2021. 43: 7/14/2021  
51: G01N  
71: NANTONG UNIVERSITY  
72: XU, Fenfen, PENG, Yuping, YOU, Yiwen, QIU, Yihua, LIU, Zhan

#### **54: CHROMATOGRAPHY COLUMN TEMPERATURE EQUALIZER FOR ENSURING TEMPERATURE UNIFORMITY**

00: -

A chromatography column temperature equalizer for ensuring temperature uniformity, comprising an upper metal thermal conduction block (1), a lower metal thermal conduction block (2). The upper metallic thermal conduction block (1) and the lower metallic thermal conduction block (2) are joined by means of hinges, and a plurality of upper semicircular chromatography column grooves (4) and a plurality of lower semicircular chromatography column grooves (5) are arranged on the upper metallic thermal conduction block (1) and the lower metallic thermal conduction block (2) respectively, the quantities of the upper semicircular chromatography column grooves (4) and the lower semicircular chromatography column grooves (5) being the same, and the positions thereof being correspondingly arranged. The lengths of the upper semicircular chromatography column grooves (4) and the lower semicircular chromatography column grooves (5) are greater than the length of a chromatography column. Sealing pieces (7) are arranged around the edges of the upper metallic thermal conduction block (1) and the lower metallic thermal conduction block (2), ensuring a complete seal when the upper metallic thermal conduction

block (1) and the lower metallic thermal conduction block (2) close. By means of the provision of sealing pieces (7), the consistency, stability, and uniformity of the working temperature of chromatography columns is effectively ensured.



21: 2021/04658. 22: 05/07/2021. 43: 7/14/2021  
51: G01N  
71: NANTONG UNIVERSITY  
72: HUANG, Yan, QIU, Yihua, SU, Jianyou, PENG, Yuping, FANG, Xiaoxia

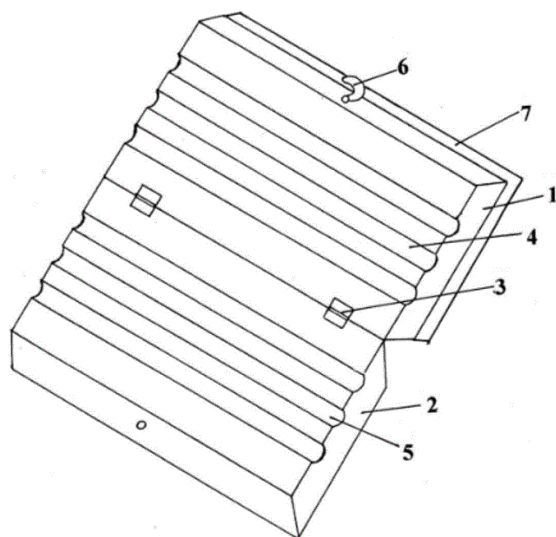
#### **54: HIGHLY-ADJUSTABLE CHROMATOGRAPHY COLUMN TEMPERATURE EQUALIZER**

00: -

A highly-adjustable chromatography column temperature equalizer, comprising an upper metal thermal conduction block (1), a lower metal thermal conduction block (2). The upper metallic thermal conduction block (1) and the lower metallic thermal conduction block (2) are joined by means of hinges, and a plurality of upper semicircular chromatography column grooves (4) and a plurality of lower semicircular chromatography column grooves (5) are arranged on the upper metallic thermal conduction block (1) and the lower metallic thermal conduction block (2) respectively, the quantities of the upper semicircular chromatography column grooves (4) and the lower semicircular chromatography column grooves (5) being the same, and the positions thereof being correspondingly arranged. The lengths of the upper semicircular chromatography column



grooves (4) and the lower semicircular chromatography column grooves (5) are greater than the length of a chromatography column. A metallic height filling block (7) is placed on the upper surface of the upper metallic thermal conduction block (1), the thickness of the metallic height filling block (7) being such that the height of the entire chromatography column temperature equalizer is caused to be the same as the height of an inner cavity of a chromatography column incubator of a liquid chromatograph. The provision of a metallic height filling block (7) effectively ensures the consistency, stability, and uniformity of the working temperature of chromatography columns.



21: 2021/04691. 22: 7/6/2021. 43: 7/14/2021  
51: C12Q

71: Qingdao University of Science and Technology

72: ZHOU, Hong, LIU, Jing

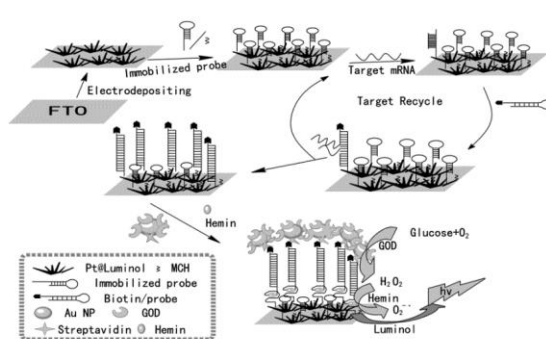
33: CN 31: 202011228621.7 32: 2020-11-06

**54: ELECTROCHEMILUMINESCENCE (ECL) SYSTEM FOR DETECTION OF MIRNA BASED ON SELF-GENERATED CO-REACTANT AND SIGNAL AMPLIFICATION**

00: -

The present disclosure provides an electrochemiluminescence (ECL) system for detection of miRNA based on self-generated co-reactant and signal amplification, and relates to the technical field of miRNA detection. According to the system of the present disclosure, a capture probe for modifying hairpin structure is constructed by using a

nano-sensor substrate with a large surface area, so that the self-generation of a co-reactant in the presence of target miRNA is realized; moreover, a signal is amplified in combination with a strand displacement-based nucleic acid isothermal signal amplification strategy, so that high-sensitivity and high-specificity ECL detection of the target miRNA can be realized. When the system of the present disclosure is used for miRNA detection, the accuracy and sensitivity of the detection can be improved, and human disturbance factors are eliminated.



21: 2021/04694. 22: 7/6/2021. 43: 7/14/2021  
51: B01J

71: Shandong Vocational College of Industry

72: SUN, Huayun

**54: DENITRATION AND DEMERCURATION CATALYST AND PREPARATION METHOD THEREOF**

00: -

The invention discloses a denitration and demercuration catalyst and a preparation method thereof, and particularly relates to the technical field of denitration and demercuration catalysts. The catalytic agent includes a raw material and a treating agent, the treating agent comprises polyethylene glycol and a foaming agent, the supporting substrate comprises a mesh plate and a cladding film, the polyethylene glycol is industrial grade polyethylene glycol with a weight of 0.5-10 parts, and the foaming agent is a sodium lauryl sulfate surfactant with a weight of 2-6 parts. The invention can increase the wiredrawing effect of the catalytic agent by adding the polyethylene glycol treating agent, and the obtained catalyst module has drawing filter holes, which can better contact nitrate or mercury during filtration, make full use of raw materials, reduce waste, and have higher efficiency of denitration and demercuration.

21: 2021/04847. 22: 7/12/2021. 43: 7/14/2021

51: C09J

71: Yantai Harbin Engineering University Research Institute

72: Guo Yanhong

#### **54: EPOXY RESIN POTTING ADHESIVE**

00: -

The invention provides an epoxy resin potting adhesive, which uses TDE-85# as the epoxy resin matrix, methyltetrahydrophthalic anhydride as the curing agent, 2-methylimidazole and propylene oxide butyl ether adduct, 2-methylimidazole and 2-ethyl-4-methylimidazole are compound accelerants, polyurethane and active nano-oxides are toughening agents, low-molecular-weight epoxy resin is used as diluent, active silicon powder is used as filler and is evenly mixed according to the specified mass ratio to make the motor stator pouring material. It has good technical properties, especially mechanical properties. Experiments show that after 200 hours of continuous operation of the high-speed micromotor, there is no powder adhesion in the motor.

21: 2021/04848. 22: 7/12/2021. 43: 7/14/2021

51: A01G

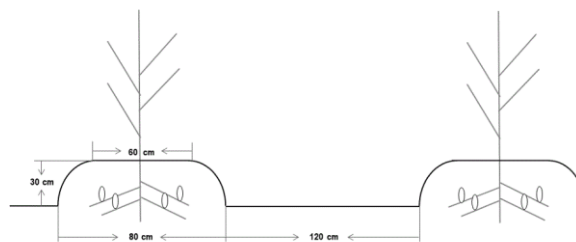
71: Biotechnology Research Center, Shandong Academy of Agricultural Sciences

72: Hou Lei, Wang Xingjun, Li Guanghui, Pan Jiaowen, Zhao Chuanzhi, Zhao Shuzhen, Li Changsheng

#### **54: CULTIVATION METHOD OF CISTANCHE TUBULOSA R. WIGHT SUITABLE FOR SALINE AREAS IN THE YELLOW RIVER DELTA**

00: -

The present invention relates to a method of cultivating *Cistanche tubulosa* R. Wight suitable for saline areas in the Yellow River Delta, mainly by planting a ridging of tamarisk, the direction of the ridging is north-south, after planting *Cistanche tubulosa* R. Wight, the height of the ridging is set 28-32 cm, the width of the bottom part of the ridging is set 78-82 cm, the top surface width of the ridging is set at 58-62cm, and both sides of the ridging can be effectively irradiated by sunlight, which can effectively avoid the phenomenon of high soil moisture and low winter temperature. Prevention of non-sprouting and susceptibility to decay of *Cistanche tubulosa* R. Wight grown in saline areas of the Yellow River Delta has improved yields.



21: 2021/04849. 22: 7/12/2021. 43: 7/14/2021

51: C09K

71: Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences

72: Liu Hongyuan, Chen Guoshuang

#### **54: SOIL MODIFIER FOR DRY FARMING IN HEAVY SODIC SALINE-ALKALI LAND**

00: -

Soil modifier for dry farming in heavy sodic saline-alkali land, which relates to a soil modifier. The present invention is to solve the technical problems of the existing modifiers leading to a significant increase in the salt content of the soil solution, causing serious saline-alkali stress to crop seed germination and crop roots, and insufficient durability and rapid degradation of organic manure. Soil modifier for dry farming in heavy sodic saline-alkali land consists of biochar, sheep manure, humic acid and gypsum according to weight parts. This invention has a significant soil improvement effect, taking into account the long-term improvement of soil structure by biochar, the quick-acting improvement of soil structure by sheep manure, the organic matter was increase and pH was reduced by humic acid, and the salt drainage effect by appropriate amount of gypsum. Through the combination of quick-acting and long-term effectiveness, the modifier can work for more than ten years. With the application of the present invention, pH of the soil was reduced from 10.49-10.05 to 10.25-9.69, the bulk weight was reduced by 1.12%-1.42%, and the hydraulic conductivity was increased by 2.58%-3.37%. The present invention belongs to the field of soil modifier.

**HYPOTHECATIONS**

No records available

**JUDGMENTS**

No records available

**OFFICE PRACTISE NOTICES****Annexure “Q-9”**

**ADVERTISEMENT OF AN AMENDMENT APPLICATION MADE BY QUAKER CHEMICAL  
(AUSTRALASIA) (PTY) LTD DURING PENDING PROCEEDINGS BEFORE THE COURT OF THE  
COMMISSIONER OF PATENTS**

Fuchs Petrolab SE (“the first respondent”), instituted revocation proceedings against Quaker Chemical (Australasia) (Proprietary) Limited (“the patentee”) in respect of South African Patent No. 2014/00912, entitled “*Method for detecting fluid injection in a patient*” (“the patent”).

The revocation proceedings have been opposed by the patentee.

The patentee has in terms of Section 51(9) of the Patent Act No. 57 of 1978 applied to the Court of the Commissioner of Patents for the amendment of the patent.

The application for amendment is open for inspection at the Patent Office, Block F Entfufukweni, 77 Meintjies Street, Sunnyside, Pretoria. Copies can also be obtained on request from the Patent Attorneys for the patentees whose address is set forth below.

Any interested person wishing to oppose the application for amendment may join in the proceedings by filing a Notice of Intention to Oppose the application for amendment within two months from the date hereof. The further proceedings are to be governed by the provisions of Rule 6 of the Uniform Rules of Court.

Address for Service in the Republic:

Adams & Adams Attorneys, Lynnwood Bridge, 4 Daventry Street, Lynnwood Manor, Pretoria,  
Reference: PL2154ZA00 R.A. Bagnall Tel:(012) 432 6222.

## 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 2021/06/28 -

F2021/00758 - Builderbottle Class 09. BRICK BOTTLE

F2021/00757 - MARTHINUS JOHANNES PRETORIUS Class 13. FRAME FOR USE IN A SOLAR PANEL

F2021/00756 - CAPCO (PTY) LTD Class 08. A LIGHT TROUGH

- APPLIED ON 2021/06/30 -

A2021/00760 - Remarkable Foods, Inc. Class 12. VEHICLES

A2021/00759 - Remarkable Foods, Inc. Class 12. VEHICLES

- APPLIED ON 2021/07/01 -

A2021/00770 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. FRONT BUMPER FOR AN AUTOMOBILE

F2021/00784 - INTERNATIONAL PLANT PROPAGATION TECHNOLOGY LIMITED Class 09. PLANT GROWING POT

F2021/00783 - INTERNATIONAL PLANT PROPAGATION TECHNOLOGY LIMITED Class 09. PLANT-GROWING TRAY

F2021/00773 - VAN DE MERWE, Christiaan Hendrik Gert Class 15. CONTOUR MAKER

A2021/00772 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. REAR BUMPER FOR AN AUTOMOBILE

A2021/00771 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 26. REAR COMBINATION LAMP FOR AN AUTOMOBILE

A2021/00769 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. FRONT BUMPER FOR AN AUTOMOBILE

A2021/00768 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. FRONT GRILLE FOR AN AUTOMOBILE

A2021/00767 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 26. FRONT COMBINATION LAMP FOR AN AUTOMOBILE

A2021/00766 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 26. FRONT COMBINATION LAMP FOR AN AUTOMOBILE

A2021/00765 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. AUTOMOBILE



A2021/00764 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. INSTRUMENT PANEL FOR AN AUTOMOBILE

A2021/00763 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. REAR BUMPER FOR AN AUTOMOBILE

A2021/00762 - SUBARU CORPORATION, TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. CONTROL DEVICE FOR AN AUTOMOBILE

A2021/00761 - SUBARU CORPORATION, TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. STEERING WHEEL FOR AN AUTOMOBILE

. - APPLIED ON 2021/07/02 -

A2021/00777 - LAGIS ENTERPRISE CO., LTD. Class 24. SURGICAL INSTRUMENT

A2021/00774 - FCA US LLC Class 12. MOTOR VEHICLES

A2021/00776 - LAGIS ENTERPRISE CO., LTD. Class 24. SURGICAL INSTRUMENT

A2021/00775 - FCA US LLC Class 12. MOTOR VEHICLES

. - APPLIED ON 2021/07/05 -

F2021/00779 - PRATLEY INVESTMENTS (PTY) LTD Class 13. JUNCTION BOX (2)

F2021/00778 - PRATLEY INVESTMENTS (PTY) LTD Class 13. JUNCTION BOX (1)

A2021/00782 - Davanti Tyres Limited Class 12. TYRE TREAD

F2021/00781 - PRATLEY INVESTMENTS (PTY) LTD Class 13. JUNCTION BOX (4)

F2021/00780 - PRATLEY INVESTMENTS (PTY) LTD Class 13. JUNCTION BOX (3)

. - APPLIED ON 2021/07/06 -

F2021/00785 - PIETERSE, Roy Garth Class 23. FIRE STARTERS

A2021/00787 - Koninklijke Philips N.V. Class 7. SANDWICH MAKERS

F2021/00789 - TEQAL (PTY) LTD Class 09. CONTAINERS

A2021/00788 - TEQAL (PTY) LTD Class 09. CONTAINERS

F2021/00786 - Sierra Fiber (Pty) Ltd Class 14. SPLICE ENCLOSURE

. - APPLIED ON 2021/07/07 -

F2021/00791 - ROVIC INTERNATIONAL (PTY) LTD Class 15. A PLANTER

F2021/00790 - ROVIC INTERNATIONAL (PTY) LTD Class 15. A PLANTER

. - APPLIED ON 2021/07/08 -

F2021/00795 - SUPERCART SOUTH AFRICA (PTY) LTD Class 12. TROLLEY HANDLE TAG HOLDER CLIP

A2021/00792 - SUPERCART SOUTH AFRICA (PTY) LTD Class 12. TROLLEY HANDLE WITH INTEGRAL TAG HOLDER

A2021/00794 - SUPERCART SOUTH AFRICA (PTY) LTD Class 12. TROLLEY HANDLE TAG HOLDER CLIP

F2021/00793 - SUPERCART SOUTH AFRICA (PTY) LTD Class 12. TROLLEY HANDLE WITH INTEGRAL TAG HOLDER

. - APPLIED ON 2021/07/09 -

A2021/00797 - NUHUMAN (PTY) LTD Class 32. GET-UP FOR INTERIOR OF A ROOM

A2021/00798 - VECTO TRADE 461 PROPRIETARY LIMITED Class 8. KNIFE BLADES

F2021/00799 - VECTO TRADE 461 PROPRIETARY LIMITED Class 8. KNIFE BLADES

A2021/00800 - VECTO TRADE 461 PROPRIETARY LIMITED Class 8. KNIFE BLADES

F2021/00801 - VECTO TRADE 461 PROPRIETARY LIMITED Class 8. KNIFE BLADES

A2021/00802 - Kgothalo Projects CC T/A Waterfix Services Class 25. MANHOLE ACCESSORY

F2021/00803 - Kgothalo Projects CC T/A Waterfix Services Class 25. MANHOLE ACCESSORY

A2021/00804 - IARC CC Class 12. DRONE

A2021/00805 - IARC CC Class 12. ARMS FOR A DRONE

A2021/00806 - IARC CC Class 12. ARMS FOR A DRONE

A2021/00807 - IARC CC Class 12. ARMS FOR A DRONE

A2021/00808 - IARC CC Class 12. ARMS FOR A DRONE

A2021/00809 - IARC CC Class 12. MOTOR PODS FOR A DRONE

A2021/00810 - IARC CC Class 12. MOTOR PODS FOR A DRONE

A2021/00796 - NUHUMAN (PTY) LTD Class 32. GET-UP FOR INTERIOR OF A ROOM

. - APPLIED ON 2021/07/12 -

F2021/00811 - INNOVATIVE MINING PRODUCTS (PTY) LTD Class 08. SELF-DRILLING ROCK BOLT

. - APPLIED ON 2021/07/14 -

F2021/00813 - TOMRA SORTING GMBH Class 18. PART OF A SORTING MACHINE

F2021/00817 - TOMRA SORTING GMBH Class 18. PART OF A SORTING MACHINE

F2021/00812 - TOMRA SORTING GMBH Class 18. PART OF A SORTING MACHINE

A2021/00819 - MOBOTIX AG Class 16. SURVEILLANCE CAMERA

F2021/00814 - TOMRA SORTING GMBH Class 18. PART OF A SORTING MACHINE

A2021/00815 - MOBOTIX AG Class 16. SURVEILLANCE CAMERA

F2021/00816 - TOMRA SORTING GMBH Class 18. PART OF A SORTING MACHINE

A2021/00818 - MOBOTIX AG Class 16. SURVEILLANCE CAMERA HOUSING

A2021/00820 - RED VILLAGE TRADING PROPRIETARY LIMITED Class 29. RESPIRATORY MASKS

- APPLIED ON 2021/07/15 -

A2021/00822 - Alco Exotic Green Building Products CC Class 25. TRIMS FOR FLOORING OR CARPETING

A2021/00821 - Alco Exotic Green Building Products CC Class 25. TRIMS FOR FLOORING OR CARPETING

F2021/00823 - Alco Exotic Green Building Products CC Class 25. TRIMS FOR FLOORING OR CARPETING

- APPLIED ON 2021/07/16 -

F2021/00826 - BALTIMORE AIRCOIL COMPANY, INC. Class 23. INDIRECT HEAT EXCHANGER TUBE CONTROLLED WRINKLE BEND

F2021/00832 - HALASZ, Brandon L. Class 21. A TOY

F2021/00833 - HALASZ, Brandon L. Class 24. A PACIFIER

A2021/00831 - HALASZ, Brandon L. Class 24. A PACIFIER

F2021/00828 - BALTIMORE AIRCOIL COMPANY, INC. Class 23. INDIRECT HEAT EXCHANGER TUBE CONTROLLED WRINKLE BEND

F2021/00827 - BALTIMORE AIRCOIL COMPANY, INC. Class 23. INDIRECT HEAT EXCHANGER TUBE CONTROLLED WRINKLE BEND

F2021/00824 - BALTIMORE AIRCOIL COMPANY, INC. Class 23. INDIRECT HEAT EXCHANGER TUBE CONTROLLED WRINKLE BEND

F2021/00829 - BALTIMORE AIRCOIL COMPANY, INC. Class 23. INDIRECT HEAT EXCHANGER TUBE CONTROLLED WRINKLE BEND

A2021/00830 - HALASZ, Brandon L. Class 21. A TOY

F2021/00825 - BALTIMORE AIRCOIL COMPANY, INC. Class 23. INDIRECT HEAT EXCHANGER TUBE CONTROLLED WRINKLE BEND

- APPLIED ON 2021/07/19 -

A2021/00838 - Vortex Innovation Worx (Pty) Ltd Class 08. HOOK HANGER COMPONENT

A2021/00837 - VICTORIOUS VIRGIN MARY LTD Class 11. DUAL PENDANT

A2021/00842 - Vortex Innovation Worx (Pty) Ltd Class 08. HOOK HANGER TOOL COMPONENT

A2021/00844 - DART INDUSTRIES INC. Class 9. BOTTLE WITH AN ELEPHANT SHAPE

F2021/00839 - Vortex Innovation Worx (Pty) Ltd Class 08. HOOK HANGER COMPONENT

A2021/00836 - TIGER FOOD BRANDS INTELLECTUAL PROPERTY HOLDING COMPANY (PTY) LIMITED  
Class 09. BOTTLES

F2021/00843 - Vortex Innovation Worx (Pty) Ltd Class 08. HOOK HANGER TOOL COMPONENT

A2021/00840 - Vortex Innovation Worx (Pty) Ltd Class 08. HOOK HANGER TOOL COMPONENT

A2021/00845 - DART INDUSTRIES INC. Class 7. SET OF HANDLES FOR COOKWARE

A2021/00834 - GREAT WALL MOTOR COMPANY LIMITED Class 12. AUTOMOBILE

A2021/00846 - DART INDUSTRIES INC. Class 7. COOKING POT

A2021/00835 - FIRMABUILD HOLDINGS (PTY) LTD Class 25. A PRE-FABRICATED LIVING UNIT

F2021/00841 - Vortex Innovation Worx (Pty) Ltd Class 08. HOOK HANGER TOOL COMPONENT

A2021/00848 - DART INDUSTRIES INC. Class 7. HANDLE FOR COOKWARE

A2021/00847 - DART INDUSTRIES INC. Class 7. COOKWARE LID HANDLE

- APPLIED ON 2021/07/20 -

A2021/00849 - Vortex Innovation Worx (Pty) Ltd Class 15. DESICCANT MANUFACTURING ARRANGEMENT

F2021/00850 - Vortex Innovation Worx (Pty) Ltd Class 15. DESICCANT MANUFACTURING ARRANGEMENT

- APPLIED ON 2021/07/21 -

F2021/00851 - KOEKEMOER, Louis Christiaan Class 29. MINING BLAST HOLE DEVICE

F2021/00853 - KOEKEMOER, Louis Christiaan Class 29. MINING BLAST HOLE DEVICE INSERT

F2021/00852 - KOEKEMOER, Louis Christiaan Class 29. MINING BLAST HOLE DEVICE

- APPLIED ON 2021/07/22 -

F2021/00855 - Tiankai Zhang Class 15. ENGINE

A2021/00854 - TIGER FOOD BRANDS INTELLECTUAL PROPERTY HOLDING COMPANY (PTY) LIMITED  
Class 09. BOTTLES

- APPLIED ON 2021/07/23 -

A2021/00859 - Kgothalo Projects CC T/A Waterfix Services Class 23. MANHOLE ACCESSORY

A2021/00856 - BREDENKAMP, Gordon Leslie Class 23. A RESERVIOR BLADDER

A2021/00861 - Medtrade Products Limited Class 24. WOUND DRESSING

F2021/00858 - BREDENKAMP, Gordon Leslie Class 23. FLAT PATTERN FOR A RESERVIOR BLADDER

F2021/00862 - Medtrade Products Limited Class 24. WOUND DRESSING

F2021/00857 - BREDENKAMP, Gordon Leslie Class 23. A RESERVIOR BLADDER

F2021/00860 - Kgothalo Projects CC T/A Waterfix Services Class 23. MANHOLE ACCESSORY

**ASSIGNMENTS IN TERMS OF SECTIONS 30, 29-REGULATIONS 37, 38 AND 40**

No records available

**CHANGE OF NAME IN TERMS OF REGULATION 41**

No records available

**CHANGE OF ADDRESS FOR SERVICE REGISTERED****APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT**

No records available

**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: A2018/01921 22: 2018-12-18 23: 2018-11-27  
43: 2021-05-21

52: Class 19. 24: Part A

71: UNIVERSITY OF JOHANNESBURG

**54: Pen**

57: The design relates to a pen. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

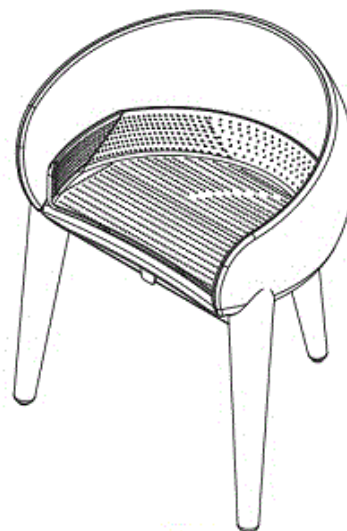
21: A2018/01922 22: 2018-12-18 23: 2018-11-27  
43: 2021-05-21

52: Class 6. 24: Part A

71: UNIVERSITY OF JOHANNESBURG

**54: Chair**

57: The design relates to a chair. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP  
PERSPECTIVE VIEW

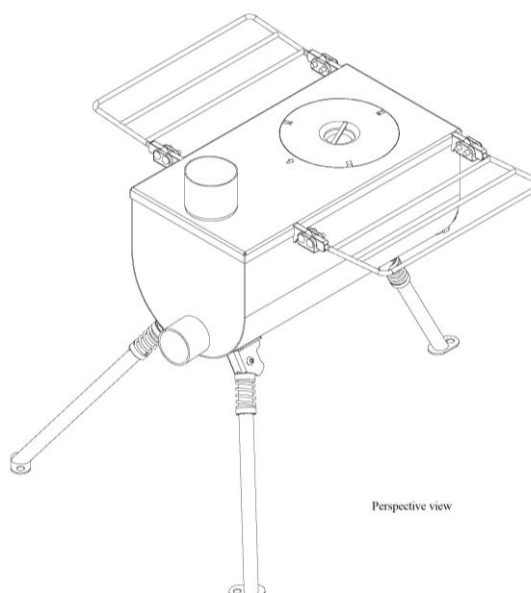
21: A2019/00321 22: 2019-02-28 23: 2018-11-27  
43: 2021-06-28

52: Class 07 24: Part A

71: Liu Qiuna

**54: A STOVE**

57: The novelty of the design as applied to a stove resides in the features of shape and/or configuration and/or pattern as applied to the article as shown in the representations.



Perspective view

21: A2019/00321 22: 2019-02-28 23: 2018-11-27

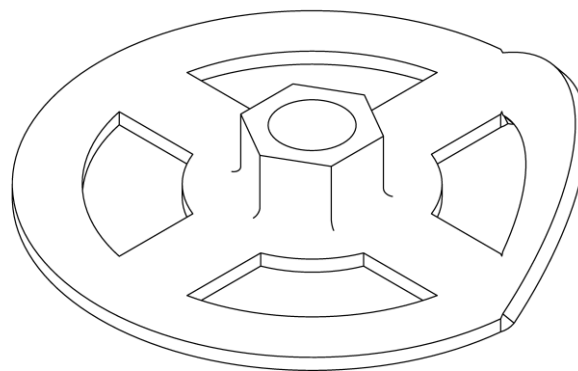
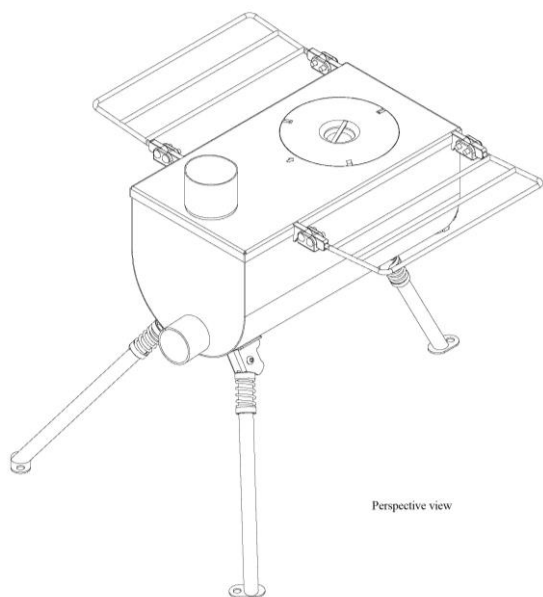
43: 2021-06-28

52: Class 07 24: Part A

71: Liu Qiuna

**54: A STOVE**

57: The novelty of the design as applied to a stove resides in the features of shape and/or configuration and/or pattern as applied to the article as shown in the representations.



21: A2019/01070 22: 2019-08-06 23: 2018-11-27

43: 2020-05-13

52: Class 15 24: Part A

71: DERRICK CORPORATION

33: US 31: 29/679,608 32: 2019-02-07

**54: VIBRATORY SCREENING MACHINE**

57: The novelty in the design as applied to a vibratory screening machine, resides in the shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the accompanying drawings.

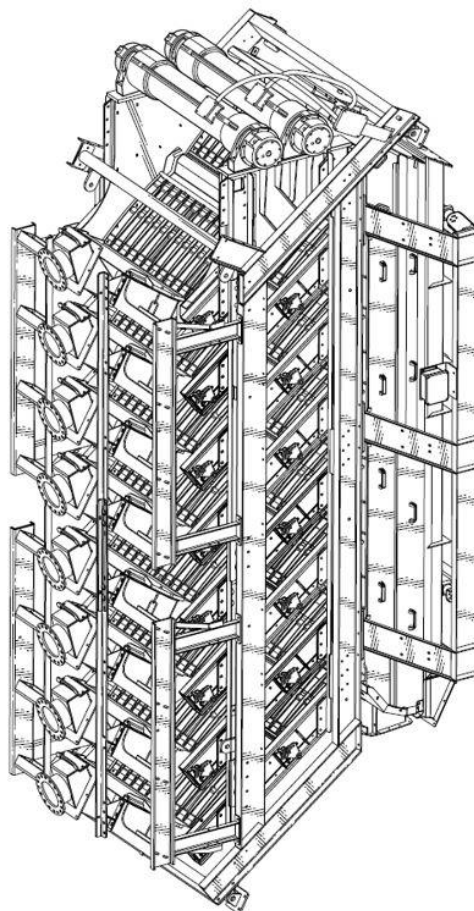


Figure 1  
Top perspective view

21: A2019/00849 22: 2019-06-21 23: 2018-11-27

43: 2020-02-12

52: Class 08 24: Part A

71: DREAM AFRICAN FOUNDATION (PTY) LTD

**54: DOUBLE NUT WASHER**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the double nut washer substantially as shown in the accompanying representations. The double nut washer may be fastened to a threaded portion of a roof bolt in order to secure a support structure, such as wire netting or Oslo straps, to the roof bolt.

21: A2019/01686 22: 2019-11-14 23: 2018-11-27  
43: 2019-05-15

52: Class 15 24: Part A

71: Ausplow Pty. Ltd.

33: AU 31: 201912656 32: 2019-05-15

#### **54: BLADES**

57: The design is for a blade comprising an elongate body having a top surface and a bottom surface separated by a pair of side walls. The body has a stepped profile, with a front being wider and having a step about halfway along its length leading to a narrower rear. A first side wall extends upwardly from a slanted bottom wall, tapering inwardly and upwardly at the step, and extending upwardly to a top wall where it slants upwardly to a short top edge. A second side wall includes a triangular projection and a rectangular ridge that protrude from the bottom wall. An upper portion of the top and bottom surfaces include three spaced-apart linear recessions.

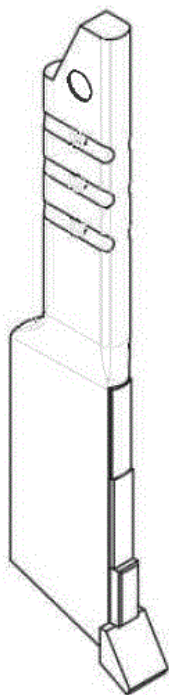


Figure 1  
Three-dimensional  
view

21: A2019/01687 22: 2019-11-14 23: 2018-11-27  
43: 2019-05-15

52: Class 15 24: Part A

71: Ausplow Pty. Ltd.

33: AU 31: 201912657 32: 2019-05-15

#### **54: BLADE TIPS**

57: The design is for a blade tip comprising a generally triangular body with truncated ends. The body has isosceles triangular top and bottom surfaces separated by rectangular side walls and narrow rectangular top and bottom end walls.

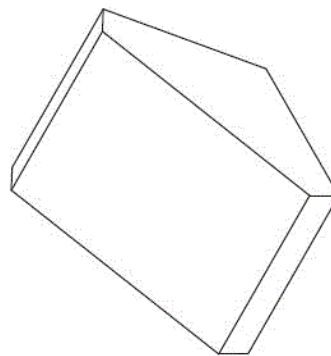


Figure 1  
Three-dimensional  
view

21: A2019/01775 22: 2019-12-11 23: 2018-11-27  
43: 2019-06-12

52: Class 13 24: Part A

71: Techtronic Cordless GP

33: US 31: 29/694,580 32: 2019-06-12

#### **54: POWER TOOLS**

57: The design is for a power tool and, in particular, for an interface of the power tool configured to receive a portion of a battery pack. A bottom surface of the interface comprises an elongate, laterally extending, V-shaped channel proximate an edge thereof, wherein the channel is parallel to the edge. An inwardly inclined cut-out is provided midway along a vertical, outer sidewall of the V-shaped channel, the cut-out being orthogonal to the channel.

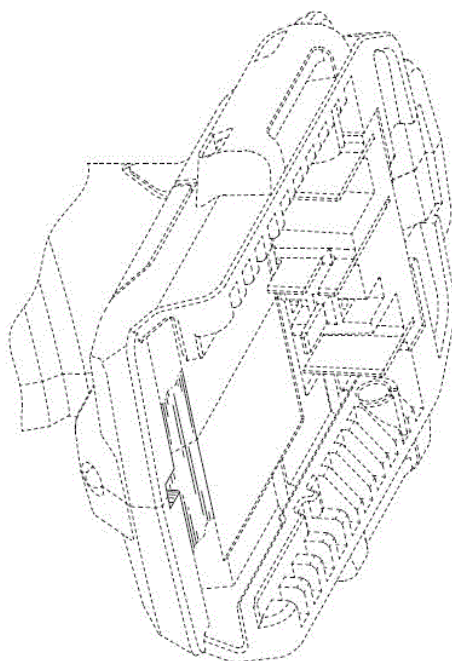


Figure 1  
Three-dimensional view

21: A2019/01776 22: 2019-12-11 23: 2018-11-27  
43: 2019-06-12

52: Class 13 24: Part A

71: Techtronic Cordless GP

33: US 31: 29/694,580 32: 2019-06-12

#### 54: POWER TOOLS

57: The design is for a cordless power tool, in particular, for an operatively lower interface of the power tool configured to receive a battery pack. When seen from above, the lower interface has a generally rectangular outline with tapering lobes which protrude from opposite sides thereof. The lower interface is connected to a handle portion of the cordless power tool on an operative upper surface thereof. An operative bottom surface of the lower interface has a recessed female socket which is configured to receive the battery pack. A set of teeth-like formations alternating with notches is provided along each major side of the recessed socket. An elongate V-shaped channel extends between the two sets of teeth-like formations and is provided proximate and parallel to a minor edge of the bottom surface. An inwardly inclined cut-out is provided midway in a sidewall of the V-shaped channel.

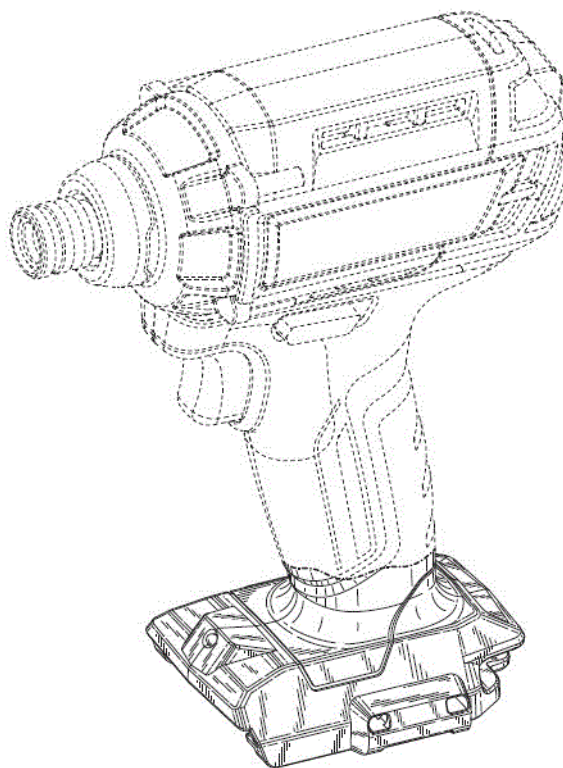


Figure 1

Three-dimensional view

21: A2019/01785 22: 2019-12-11 23: 2018-11-27  
43: 2019-06-12

52: Class 8 24: Part A

71: Techtronic Cordless GP

33: US 31: 29/694,580 32: 2019-06-12

#### 54: POWER TOOLS

57: The design is for a cordless power tool having an operatively lower battery interface configured to receive a battery pack. The battery interface has a generally rectangular outline with tapering, outwardly protruding lobes on opposing sides, when seen from above. A handle extends operatively upwards from the battery interface. A generally cylindrical head is positioned fore and aft relative to the handle at an operative upper end thereof. A circular cylindrical chuck or tool receiving formation protrudes from a front end of the head. An operative bottom surface of the battery interface defines a recessed female socket for receiving the battery. A set of teeth-like formations with alternating notches is provided along each major side of the socket. A V-shaped channel extends between the two sets of teeth-like formations. An inclined cut-out is provided midway in a sidewall of the V-shaped channel.



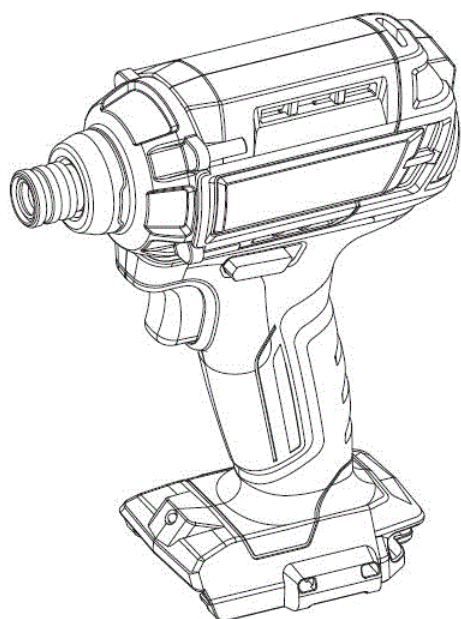
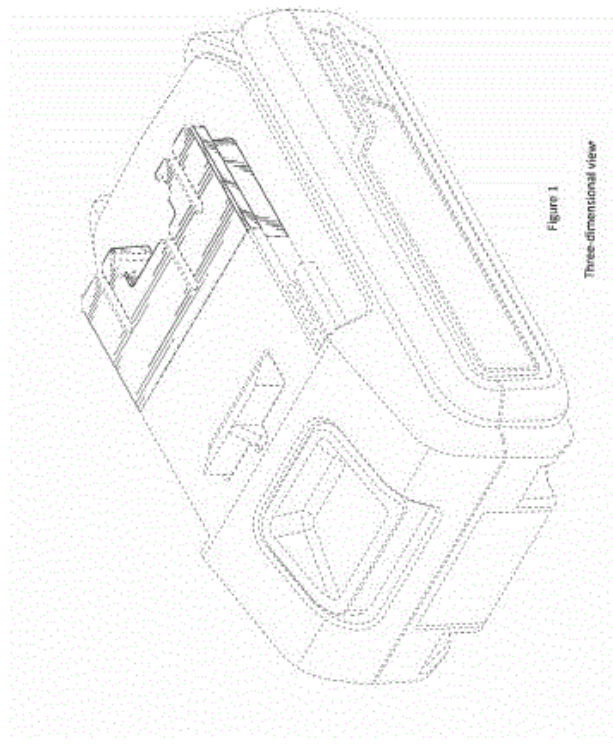


Figure 1

Three-dimensional view

Figure 1  
Three-dimensional view

21: A2019/01788 22: 2019-12-11 23: 2018-11-27  
43: 2019-06-12

52: Class 13 24: Part A

71: Techtronic Cordless GP

33: US 31: 29/694,582 32: 2019-06-12

#### **54: BATTERY PACKS**

57: The design is for a battery pack and comprises a generally rectangular section having an upper surface, a rear wall and a pair of sidewalls. The upper surface defines a lateral overhang which projects laterally over the sidewalls. A prominent, rectangular recess is defined in the rear wall. Edges of the section generally have thinner bevels, while edges between the rear and side walls have thicker bevels.

21: A2019/01843 22: 2019-12-20 23: 2018-11-27  
43: 2019-06-21

52: Class 8 24: Part A

71: Gripple Limited

33: EM(GB) 31: 006588752-0002 32: 2019-06-21

#### **54: SECURING DEVICES**

57: The design relates to a securing device in the form of a hanger for the discreet suspension of signage, decorations, acoustic panels, lighting and displays. When seen in front and rear views, the device has a circular outline. Concentric circular formations are provided on a front and rear surface of the device. A pair of diagonally opposing arrow formations is provided on the front and rear surfaces, wherein each arrow points to a centre line of the surface. A mid-section is sandwiched between the front and rear surfaces. A pair of diametrically opposing tabs protrudes from the mid-section and, when seen in front and rear view, each tab extends beyond the outline of the front and rear surfaces. The mid-section is configured to receive a suspension filament to allow a user to suspend articles therefrom.



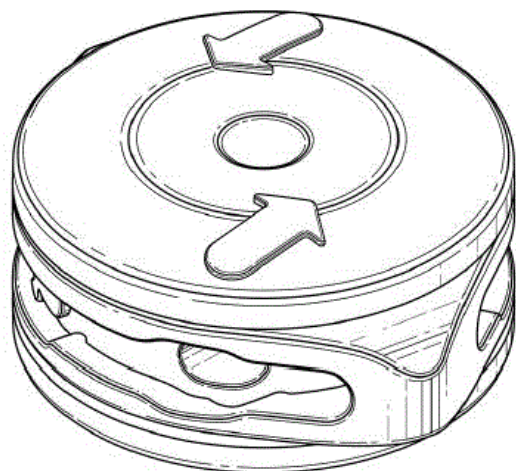


Figure 1

Three-dimensional view

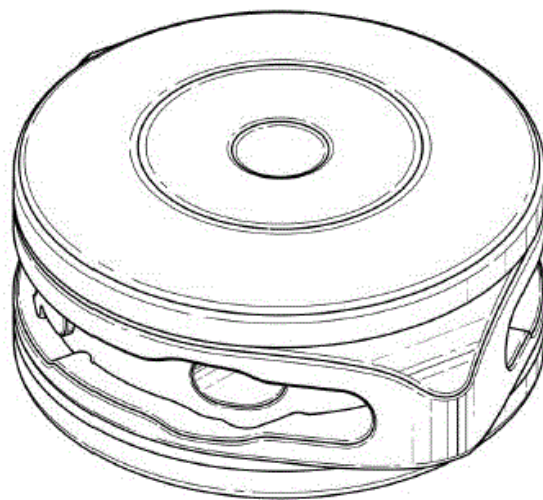


Figure 1

Three-dimensional view

21: A2019/01844 22: 2019-12-20 23: 2018-11-27  
43: 2019-06-21

52: Class 8 24: Part A

71: Gripple Limited

33: EM(GB) 31: 006588752-0003 32: 2019-06-21

#### **54: SECURING DEVICES**

57: The design relates to a securing device in the form of a hanger for the discreet suspension of signage, decorations, acoustic panels, lighting and displays. When seen in front and rear views, the device has a circular outline. Concentric circular formations are provided on a front and rear surface of the device. A mid-section is sandwiched between the front and rear surfaces. A pair of diametrically opposing tabs protrudes from the mid-section and, when seen in front and rear view, each tab extends beyond the outline of the front and rear surfaces. The mid-section is configured to receive a suspension filament to allow a user to suspend articles therefrom.

21: A2020/00146 22: 2020-02-07 23: 2018-11-27  
43: 2021-05-03

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: A2020/00199 22: 2020-02-17 23: 2018-11-27  
43: 2021-07-07

52: Class 18 24: Part A

71: SOUTH AFRICAN RESERVE BANK

#### **54: TYPEFACE**

57: The novelty of the design as applied to an article is a typeface having letters in the shape and/or configuration and/or ornamentation and/or pattern thereof, substantially as shown in the accompanying representations.

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 TUVWXYZ ÂÃÄÅÄÇÊËË  
 ÎÏÎŁŃÓÔÕÖØÙÚÛÜŞĐÝŽǼ  
 abcdefghijklmnopqrstuvw  
 xyz áâãäåçêëîïñ  
 óôõöøùúûüšđýžǼ

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 VWXYZ ÁÀÃÄÅÇÊËËÎÏŁŃ  
 ÓÔÕÖØÙÚÛÜŞĐÝŽ

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 Æ æ Œ œ  
 1234567890  
 € \$ % & ' ( ) \* + , - . : ; ... ,  
 \_ - - - - - - - - - - - - - - -  
 ! ; ? ^ & ( ) [ ] { } \ / \* + = % & °  
 @ © ® ™ # ~  
 \ . / ^ v u . o ~ "

21: A2020/00365 22: 2020-03-16 23: 2018-11-27  
 43: 2021-06-09

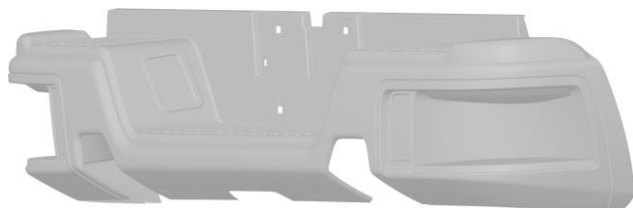
52: Class 12 24: Part A

71: Great Wall Motor Company Limited

33: CN 31: 201930508703.9 32: 2019-09-17

#### 54: VEHICLE REAR BUMPER

57: The design is for a vehicle grille that is slightly curved in top view and defines a central step, two recesses in its bottom edge on either side of the step and two corner recesses at opposing ends of the bumper.



21: A2020/00641 22: 2020-05-22 23: 2018-11-27  
 43: 2021-06-01

52: Class 07 24: Part A

71: BLENDJET INC.

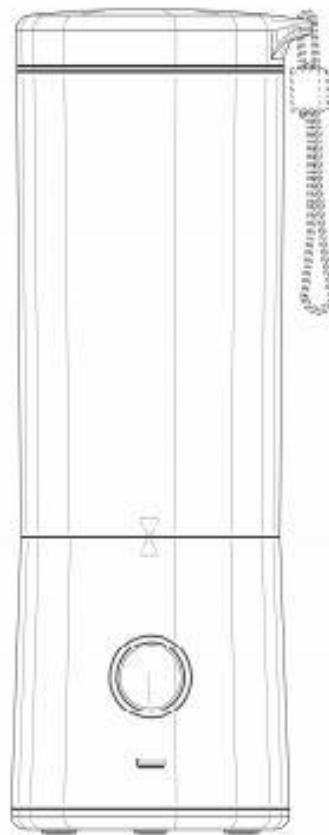
33: US 31: 29/714,599 32: 2019-11-25

33: US 31: 29/714,594 32: 2019-11-25

33: US 31: 29/715,453 32: 2019-12-02

#### 54: PORTABLE BLENDER

57: The design is applied to a portable blender. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of the portable blender, irrespective of the strap element (shown in dotted lines), substantially as shown in the accompanying representations. The blender functioning, in use, to blend food and/or liquid products.



21: A2020/00675 22: 2020-05-28 23: 2018-11-27  
 43: 2021-05-03

52: Class 24. 24: Part A

71: BAYER OY

33: EM 31: 007549993• -0001 32: 2020-01-24

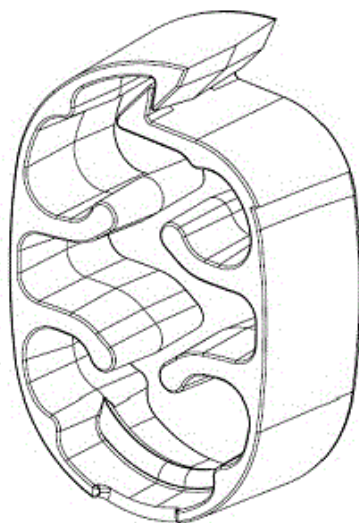
33: EM 31: 007549993• -0003 32: 2020-01-24

33: EM 31: 007549993• -0004 32: 2020-01-24

33: EM 31: 007549993• -0002 32: 2020-01-24

#### 54: Flange

57: The design relates to a flange. The features of the design are those of shape and/or configuration.



FIRST PERSPECTIVE VIEW  
IN LOCKED CONFIGURATION

21: A2020/01049 22: 2020-07-31 23: 2018-11-27

43: 2021-05-24

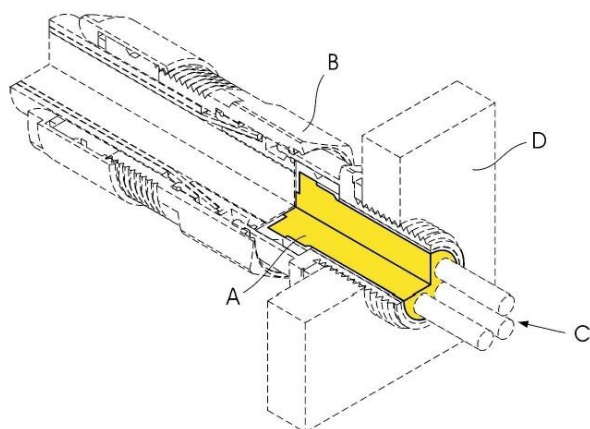
52: Class 08 24: Part A

71: CCG INTERNATIONAL HOLDINGS LIMITED

33: EU 31: 007466248 32: 2020-01-31

#### 54: CABLE GLANDS

57: The features of the design for which protection is claimed reside in the colour of resin mix (A) forming part of barrier cable gland substantially as illustrated in the accompanying drawings. The cable gland (B), cables (C) and barrier through which the cable gland passes (D) do not form part of the design and are disclaimed from protection.



21: A2020/01051 22: 2020-07-31 23: 2018-11-27

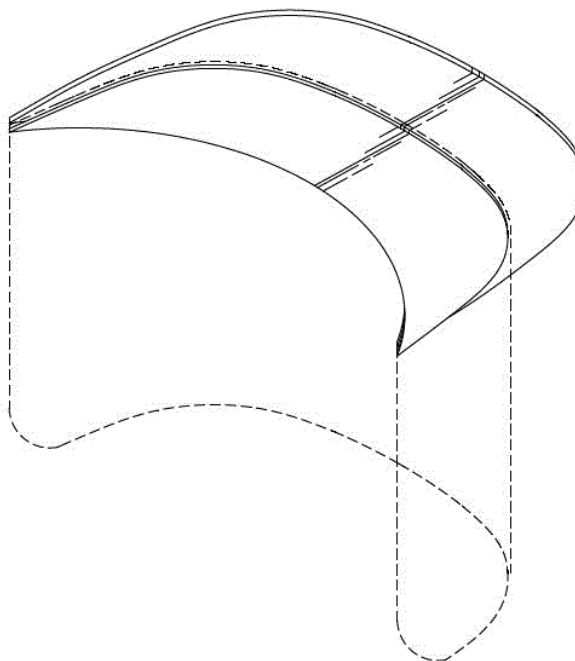
43: 2020-07-31

52: Class 2 24: Part A

71: WILL, Edward Henry

#### 54: Headwear and Headwear Accessories

57: The design is in respect of an accessory for an article of headwear and/or an article of headwear incorporating the accessory. In particular it relates to a peak or visor of the article of headwear which includes a peak element having an operatively upper surface and operatively lower surface and an attachment member connected to the lower surface of the peak element. The attachment member is similar in shape but of smaller dimensions than the peak element such that the peak element protrudes beyond the attachment element. A recess is defined between an outer edge of the attachment element and the peak element which serves as an attachment formation for receiving a lip of a face shield. The peak element can be attached directly to the remainder of the article of headwear and/or it could be enclosed in a layer of cladding thereby forming a peak accessory.



21: A2020/01205 22: 2020-09-04 23: 2018-11-27

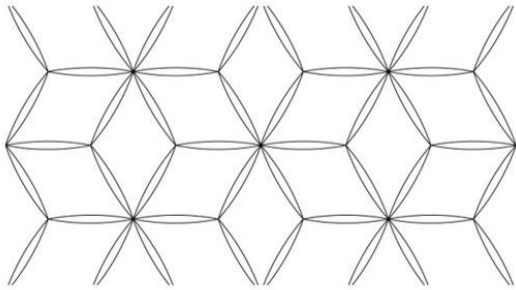
43: 2021-04-22

52: Class 05 24: Part A

71: ANGELOS LAMBROU, KEVIN DAVID KING

#### 54: FABRIC

57: The features of the design for which protection is claimed is those of the pattern or ornamentation of a fabric substantially as illustrated in the accompanying drawing.



21: A2020/01217 22: 2020-09-10 23: 2018-11-27

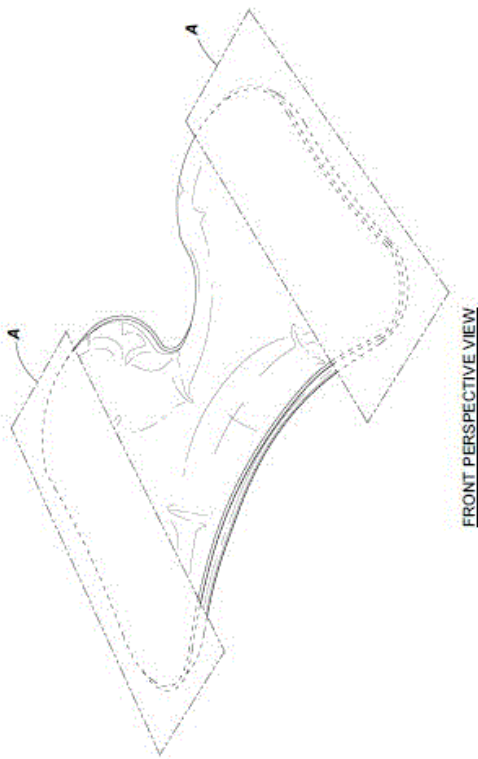
43: 2021-05-24

52: Class 6 24: Part A

71: PLANI, Natascha

**54: A CUSHION**

57: The design is applied to a cushion. The features of the design for which protection is claimed include the shape of the cushion substantially as illustrated in the accompanying drawings.



21: A2020/01239 22: 2020-09-17 23: 2018-11-27

43: 2021-05-24

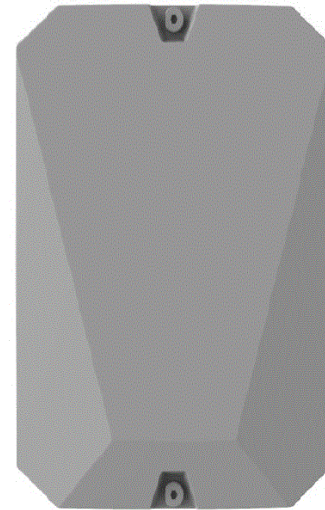
52: Class 14 24: Part A

71: AJAX SYSTEMS CYPRUS HOLDINGS LTD

33: WO 31: WIPO96393 32: 2020-07-15

**54: DATA TRANSMISSION DEVICE (DATA PROCESSING)**

57: Protection is claimed for the aesthetic features and/or the configuration of a data transmission device as shown in the accompanying representations.



21: A2020/01251 22: 2020-09-18 23: 2018-11-27

43: 2021-05-24

52: Class 14. 24: Part A

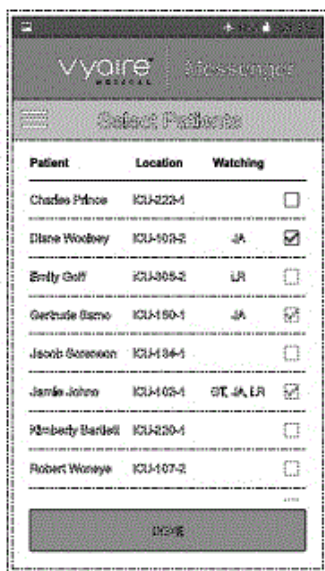
71: VYAIR MEDICAL, INC.

33: US 31: 29/728,802 32: 2020-03-20

**54: Computing Device with Graphical User Interface**

57: The design relates to a computing device with graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.





PLAN VIEW OF FIRST EMBODIMENT

21: A2020/01252 22: 2020-09-18 23: 2018-11-27

43: 2021-05-24

52: Class 14. 24: Part A

71: VYAIRE MEDICAL, INC.

33: US 31: 29/728,803 32: 2020-03-20

#### 54: Computing Device with Graphical User Interface

57: The design relates to a computing device with graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW OF FIRST EMBODIMENT

21: A2020/01253 22: 2020-09-18 23: 2018-11-27

43: 2021-05-24

52: Class 14. 24: Part A

71: VYAIRE MEDICAL, INC.

33: US 31: 29/728,805 32: 2020-03-20

#### 54: Computing Device with Graphical User Interface

57: The design relates to a computing device with graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW OF FIRST EMBODIMENT

21: A2020/01254 22: 2020-09-18 23: 2018-11-27

43: 2021-05-24

52: Class 14. 24: Part A

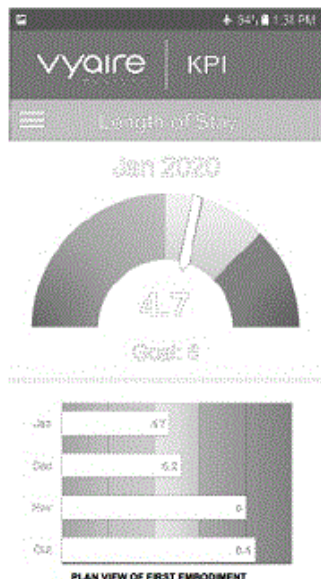
71: VYAIRE MEDICAL, INC.

33: US 31: 29/728,806 32: 2020-03-20

#### 54: Computing Device with Graphical User Interface

57: The design relates to a computing device with graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.





21: A2020/01255 22: 2020-09-18 23: 2018-11-27  
43: 2021-05-24

52: Class 14. 24: Part A  
71: VYAIRES MEDICAL, INC.

33: US 31: 29/728,808 32: 2020-03-20

#### **54: Computing Device with Graphical User Interface**

57: The design relates to a computing device with graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

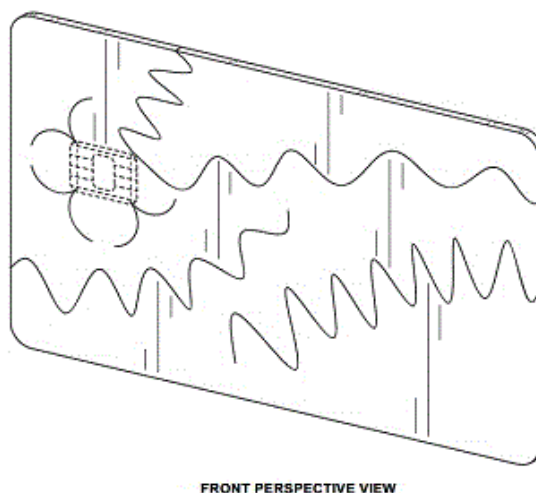


21: A2020/01257 22: 2020-09-21 23: 2018-11-27  
43: 2021-05-24

52: Class 19. 24: Part A  
71: COMPOSECURE, L.L.C.  
33: US 31: 29/732,679 32: 2020-04-27

#### **54: Layer of a Transaction Card Having Multiple Discontinuities**

57: The design relates to a layer of a transaction card having multiple discontinuities. The features of the design are those of shape and/or configuration and/or pattern.



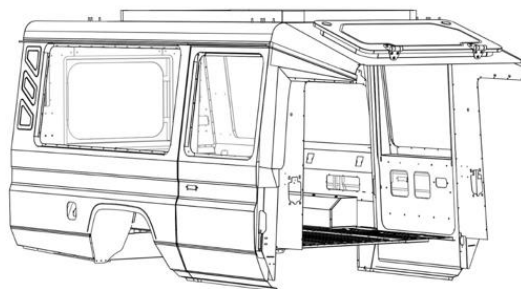
21: A2020/01277 22: 2020-09-23 23: 2018-11-27  
43: 2021-05-24

52: Class 12 24: Part A  
71: VARINDER SINGH BHAMRA

33: GB 31: 6086011 32: 2020-03-27

#### **54: SAFARI MULTIPURPOSE AUTOMOBILE CABIN BODY**

57: Protection is claimed for the features of shape and/or configuration of a safari multipurpose automobile cabin body, substantially as shown in the accompanying representations.

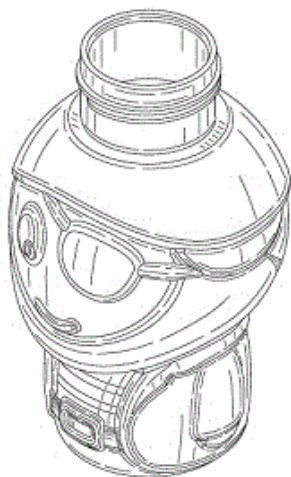


21: A2020/01279 22: 2020-09-23 23: 2018-11-27  
43: 2021-05-19

52: Class 9. 24: Part A  
71: DART INDUSTRIES INC.  
33: US 31: 29/730,983 32: 2020-04-10

**54: Bottle with Pirate Shape**

57: The design relates to a bottle with a pirate shape. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND LEFT SIDE PERSPECTIVE VIEW

21: A2020/01280 22: 2020-09-23 23: 2018-11-27  
43: 2021-05-19

52: Class 9. 24: Part A

71: DART INDUSTRIES INC.

33: US 31: 29/730,985 32: 2020-04-10

**54: Bottle with Mermaid Shape**

57: The design relates to a bottle with a mermaid shape. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND LEFT SIDE PERSPECTIVE VIEW

21: A2020/01282 22: 2020-09-23 23: 2018-11-27  
43: 2021-05-24

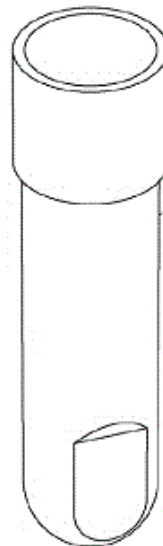
52: Class 24. 24: Part A

71: HITACHI HIGH-TECH CORPORATION

33: JP 31: 2020-005604 32: 2020-03-24

**54: Cuvette**

57: The design relates to a cuvette. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/01283 22: 2020-09-23 23: 2018-11-27  
43: 2021-05-24

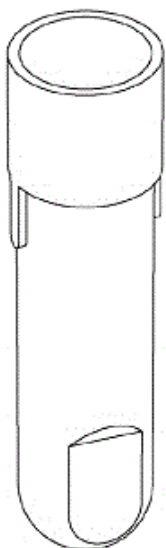
52: Class 24. 24: Part A

71: HITACHI HIGH-TECH CORPORATION

33: JP 31: 2020-005605 32: 2020-03-24

**54: Cuvette**

57: The design relates to a cuvette. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW

21: A2020/01284 22: 2020-09-25 23: 2018-11-27  
43: 2021-05-24

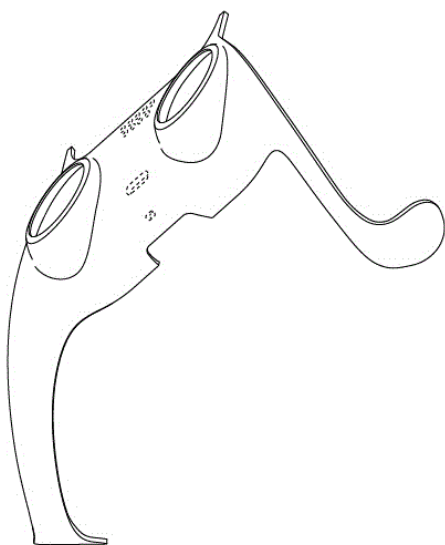
52: Class 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-007066 32: 2020-04-03

**54: HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE**

57: The design is applied to a housing for a controller for an electronic device shown in perspective front, bottom, right side view in the drawing showing the overall appearance thereof.



21: A2020/01285 22: 2020-09-25 23: 2018-11-27  
43: 2021-05-24

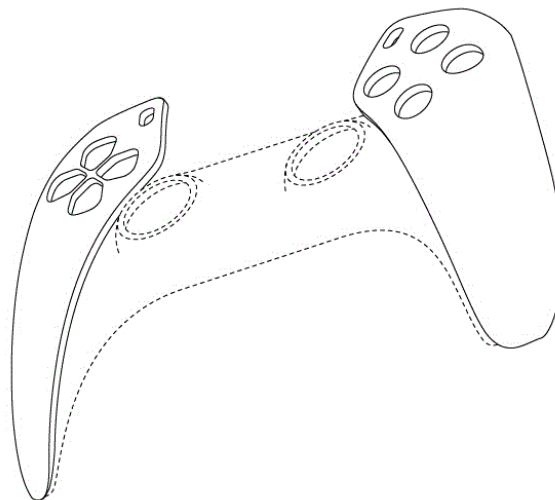
52: Class 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-007065 32: 2020-04-03

**54: HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE**

57: The design is applied to a housing for a controller for an electronic device shown in perspective front, bottom, right side view in the drawing showing the overall appearance thereof.



21: A2020/01286 22: 2020-09-25 23: 2018-11-27  
43: 2021-05-24

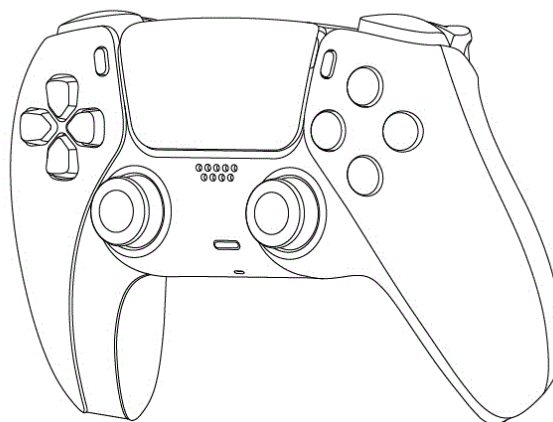
52: Class 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-007062 32: 2020-04-03

**54: CONTROLLER FOR ELECTRONIC DEVICE**

57: The design is applied to a controller for an electronic device shown in perspective front right side view in the drawing showing the overall appearance thereof.



21: A2020/01287 22: 2020-09-25 23: 2018-11-27  
43: 2021-05-24

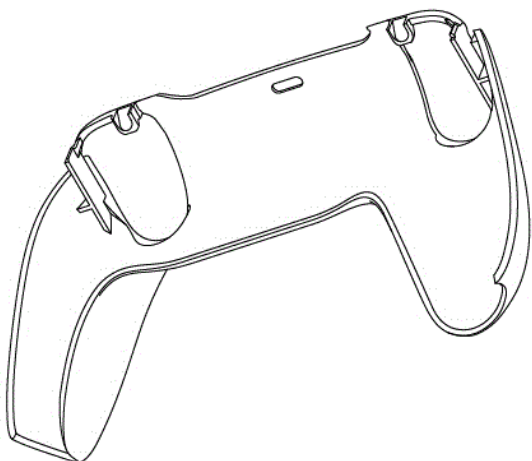
52: Class 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-007067 32: 2020-04-03

**54: HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE**

57: The design is applied to a housing for a controller for an electronic device shown in perspective front, bottom, right side view in the drawing showing the overall appearance thereof.



21: A2020/01292 22: 2020-09-25 23: 2018-11-27

43: 2021-05-25

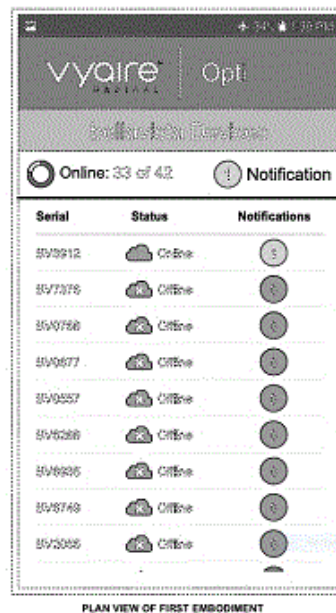
52: Class 14. 24: Part A

71: VYAIRE MEDICAL, INC.

33: US 31: 29/729,194 32: 2020-03-24

**54: Computing Device with Graphical User Interface**

57: The design relates to a computing device with graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2020/01321 22: 2020-10-05 23: 2018-11-27

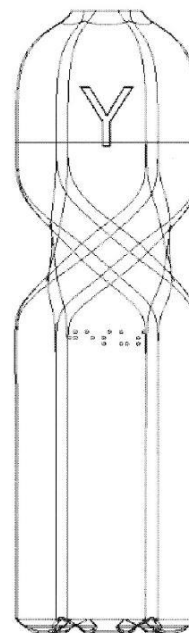
43: 2021-05-19

52: Class 09 24: Part A

71: FEAD Food and Beverages (Pty) Ltd

**54: BOTTLE**

57: The features of the design for which protection is claimed are the shape, pattern, configuration and ornamentation of a bottle substantially as illustrated in the accompanying drawings.



21: A2020/01323 22: 2020-10-05 23: 2018-11-27

43: 2021-05-19

52: Class 10 24: Part A

71: AKTSYONERNOE OBSHESTVO  
«ELEKTROTEKHNICHESKIE ZAVODY  
«ENERGOMERA»

33: RU 31: 2020503440 32: 2020-07-30

**54: MEASURING UNIT FOR ELECTRIC ENERGY  
METER**

57: The design is applied to a measuring unit for an electric energy meter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the measuring unit for an electric energy meter, substantially as illustrated in the accompanying representation.



21: A2020/01324 22: 2020-10-05 23: 2018-11-27

43: 2021-05-24

52: Class 10 24: Part A

71: AKTSYONERNOE OBSHESTVO  
«ELEKTROTEKHNICHESKIE ZAVODY  
«ENERGOMERA»

33: RU 31: 2020503441 32: 2020-07-30

**54: INDICATOR DEVICE FOR ELECTRIC ENERGY  
METER**

57: The design is applied to an indicator device for an electric energy meter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the indicator device for an electric energy meter, substantially as illustrated in the accompanying representations.



21: A2020/01325 22: 2020-10-05 23: 2018-11-27

43: 2021-05-19

52: Class 10 24: Part A

71: AKTSYONERNOE OBSHESTVO  
«ELEKTROTEKHNICHESKIE ZAVODY  
«ENERGOMERA»

33: RU 31: 2020503442 32: 2020-07-30

**54: MEASURING UNIT FOR ELECTRIC ENERGY  
METER**

57: The design is applied to a measuring unit for an electric energy meter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the measuring unit for an electric energy meter, substantially as illustrated in the accompanying representation.



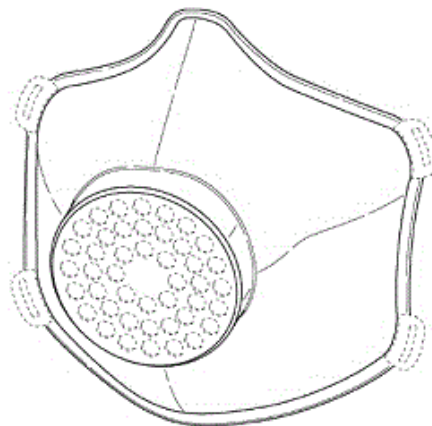


71: UNILEVER PLC

33: US 31: 29/730,796 32: 2020-04-08

**54: Face Mask**

57: The design relates to a face mask. The features of the design are those of shape and configuration.



FRONT PERSPECTIVE VIEW

21: A2020/01331 22: 2020-10-06 23: 2018-11-27

43: 2021-05-19

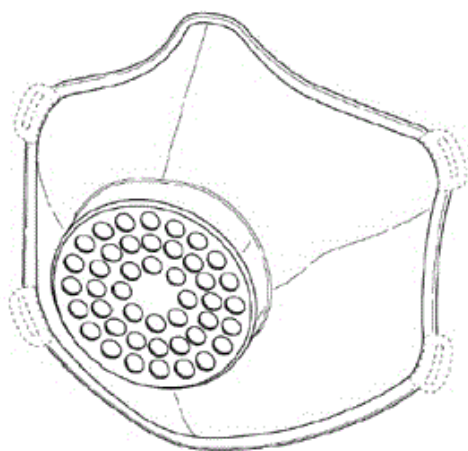
52: Class 24. 24: Part A

71: UNILEVER PLC

33: US 31: 29/730,796 32: 2020-04-08

**54: Face Mask**

57: The design relates to a face mask. The features of the design are those of shape and configuration.



FRONT PERSPECTIVE VIEW

21: A2020/01336 22: 2020-10-07 23: 2018-11-27

43: 2021-05-25

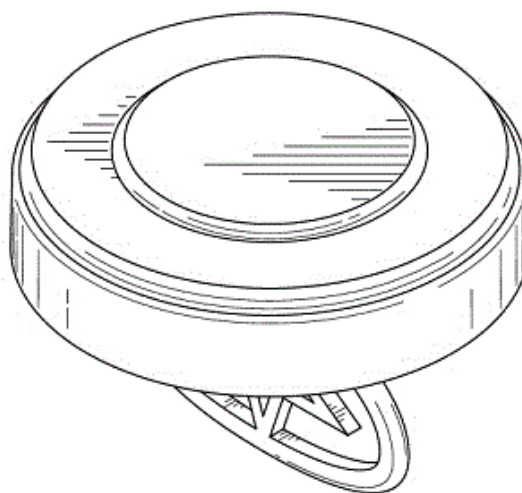
52: Class 9. 24: Part A

71: ELC MANAGEMENT LLC

33: US 31: 29/730,637 32: 2020-04-07

**54: Jar Cap with Mixing Paddle**

57: The design relates to a jar cap with mixing paddle. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2020/01332 22: 2020-10-06 23: 2018-11-27

43: 2021-05-19

52: Class 24. 24: Part A

21: A2020/01355 22: 2020-10-13 23: 2018-11-27

43: 2020-04-14

52: Class 12 24: Part A

71: The Goodyear Tire & Rubber Company

33: EM(BE) 31: 007809793-0002 32: 2020-04-14

#### 54: TIRES

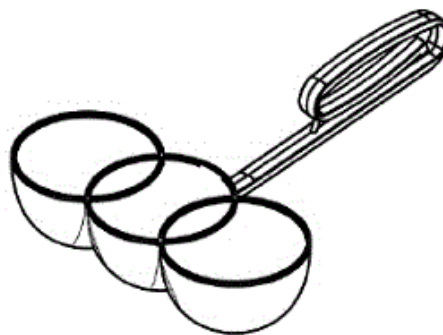
57: The design is for a tire including a tire tread. The tire tread has five transversely spaced tread rings.

The tread rings are separated by circumferential grooves. Each tread ring includes a plurality of circumferentially spaced apart sipes.



Figure 1

Three-dimensional view



FIRST PERSPECTIVE VIEW

21: A2020/01372 22: 2020-10-15 23: 2018-11-27

43: 2021-05-25

52: Class 09 24: Part A

71: LOBOSTE MON FODISA PTY LTD

#### 54: BOTTLE

57: The product is the bottle protecting the shape of the configuration of bottle shape.



21: A2020/01370 22: 2020-10-20 23: 2018-11-27

43: 2021-05-25

52: Class 23. 24: Part A

71: BLUESUN CONSUMER BRANDS, S.L.

33: EM 31: 007825245-0002 32: 2020-04-21

33: EM 31: 007825245-0004 32: 2020-04-21

33: EM 31: 007825245-0003 32: 2020-04-21

33: EM 31: 007825245-0001 32: 2020-04-21

#### 54: Applicator for Toilet Bowl Cleaning Gel

57: The design relates to an applicator for toilet bowl cleaning gel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2020/01379 22: 2020-10-21 23: 2018-11-27

43: 2021-05-25

52: Class 07 24: Part A

71: KRIEL, Hendrik Johannes

**54: WINE BOTTLE STAND**

57: The design is for a wine bottle stand that is formed from sheet metal that is bent at acute angles to form a rectangular front panel with a central upward protuberance, an hourglass-shaped bottom panel, and a rear panel profiled to resemble a wine glass.



21: A2020/01380 22: 2020-10-21 23: 2018-11-27

43: 2021-05-25

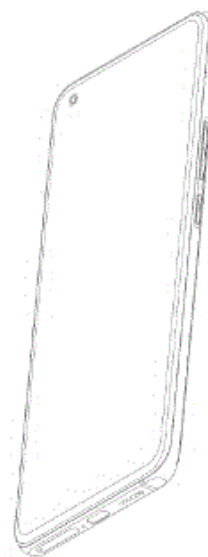
52: Class 14. 24: Part A

71: VIVO MOBILE COMMUNICATION CO., LTD.

33: CN 31: 202030173082.6 32: 2020-04-24

**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 pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/01381 22: 2020-10-21 23: 2018-11-27

43: 2021-05-25

52: Class 14. 24: Part A

71: VIVO MOBILE COMMUNICATION CO., LTD.

33: CN 31: 202030173084.5 32: 2020-04-24

**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 pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/01382 22: 2020-10-21 23: 2018-11-27

43: 2021-05-25

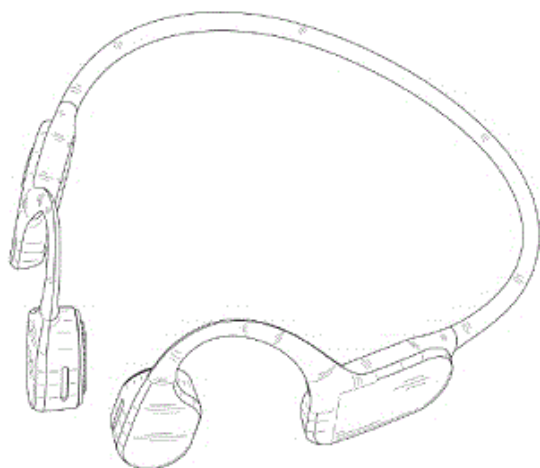
52: Class 24. 24: Part A

71: SHENZHEN VOXTECH CO., LTD.

33: CN 31: 202030347884.4 32: 2020-07-01

**54: Hearing Aid**

57: The design relates to a hearing aid. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2020/01397 22: 2020-10-23 23: 2018-11-27

43: 2021-05-25

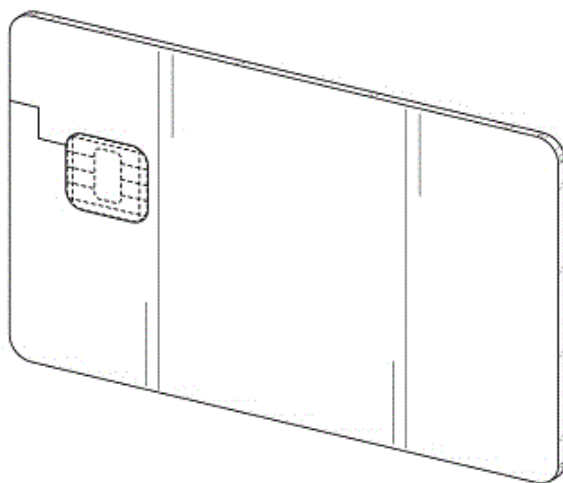
52: Class 19. 24: Part A

71: COMPOSECURE, LLC

33: US 31: 29/732,684 32: 2020-04-27

**54: Layer of a Transaction Card Having Single-Step Discontinuities**

57: The design relates to a layer of a transaction card having single-step discontinuities. The features of the design are those of shape and/or configuration and/or pattern.



FRONT PERSPECTIVE VIEW

21: A2020/01398 22: 2020-10-23 23: 2018-11-27

43: 2021-05-25

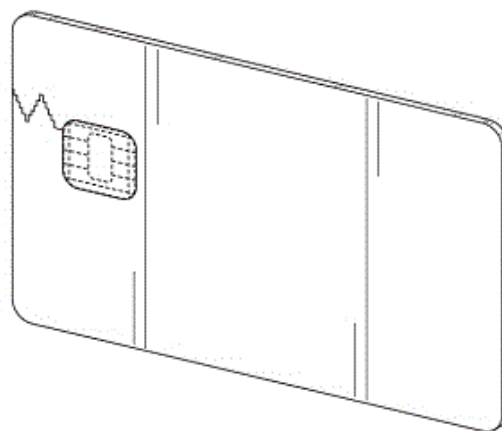
52: Class 19. 24: Part A

71: COMPOSECURE, LLC

33: US 31: 29/732,680 32: 2020-04-27

**54: Layer Of A Transaction Card Having Zigzag Discontinuities**

57: The design relates to a layer of a transaction card having zigzag discontinuities. The features of the design are those of shape and/or configuration and/or pattern.



FRONT PERSPECTIVE VIEW

21: A2020/01410 22: 2020-10-30 23: 2018-11-27

43: 2021-06-09

52: Class 06 24: Part A

71: RIXTON, Benita Paula Doria

**54: A LAPTOP STAND**

57: The design is applied to a laptop stand. 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 laptop stand, substantially as illustrated in the accompanying representations. The hexagonal air vents of the base of the stand do not form part of the design and are disclaimed. The textual matter appearing on the stand does not form part of the design and is disclaimed. The electrical cables (not including the light strips) extending from the stand do not form part of the design and are disclaimed. The laptop shown in Figure 2 is only for exemplary purposes and does not form part of the design and is disclaimed.



FIGURE 1: THREE-DIMENSIONAL VIEW

21: A2020/01421 22: 2020-11-04 23: 2018-11-27

43: 2021-06-02

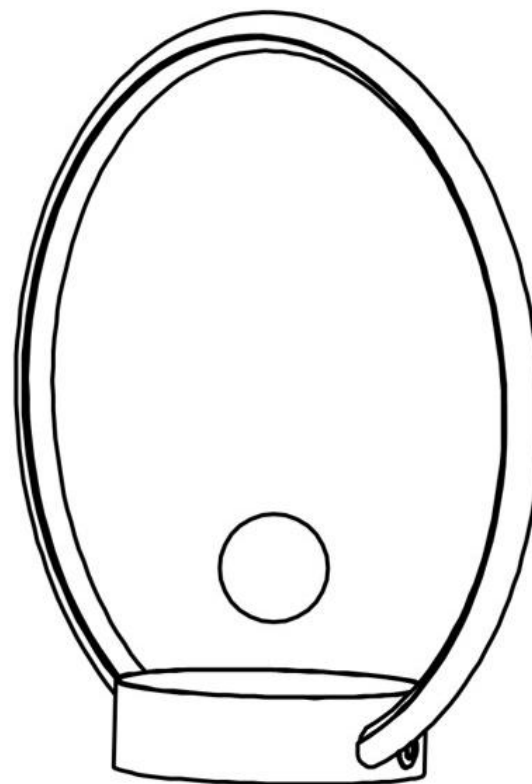
52: Class 26 24: Part A

71: ZHAOQING HENGYI INDUSTRIAL COMPANY LIMITED

33: CN 31: 202030530502.1 32: 2020-09-09

**54: RING LAMP**

57: The design is applied to a ring lamp. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the ring lamp, substantially as illustrated in the accompanying representation.



21: A2020/01527 22: 2020-11-25 23: 2018-11-27

43: 2021-06-09

52: Class 23 24: Part A

71: Agriplas (Pty) Ltd

**54: WEIGHT**

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: A2020/01529 22: 2020-11-25 23: 2018-11-27

43: 2021-06-09

52: Class 23 24: Part A

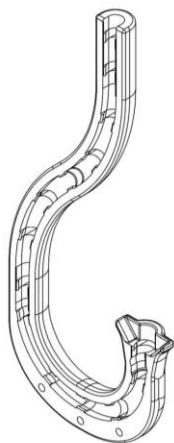
71: Agriplas (Pty) Ltd

**54: J-CLIP**

57: The features of the design for which protection is claimed include the shape and/or configuration



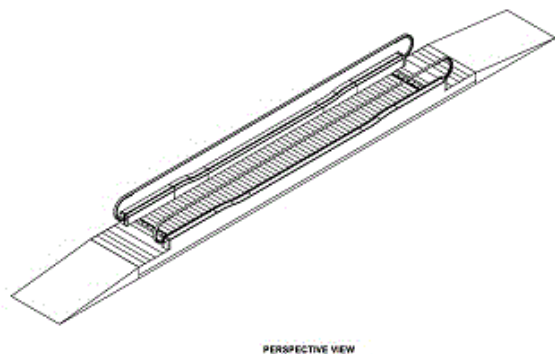
and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2020/01544 22: 2020-11-27 23: 2018-11-27  
43: 2021-05-25  
52: Class 12. 24: Part A  
71: INVENTIO AG  
33: CH 31: 145384 32: 2020-06-15

**54: Travelator**

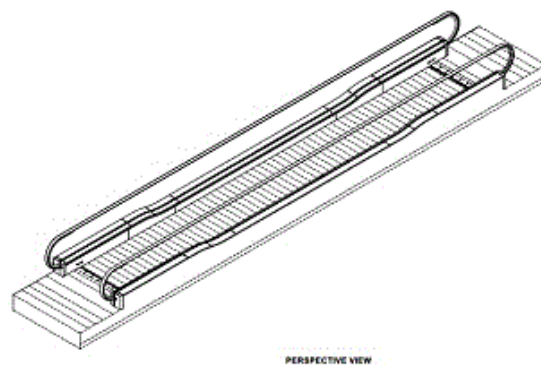
57: The design relates to a travelator. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2020/01545 22: 2020-11-27 23: 2018-11-27  
43: 2021-05-25  
52: Class 12. 24: Part A  
71: INVENTIO AG  
33: CH 31: 145384 32: 2020-06-15

**54: Travelator**

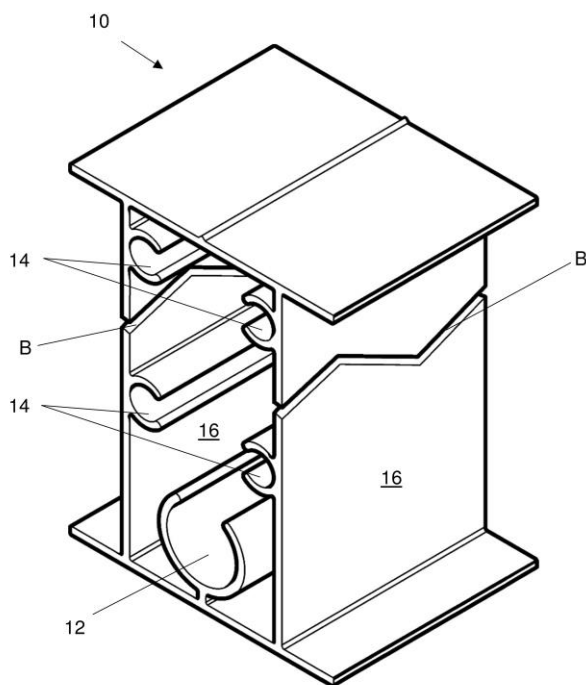
57: The design relates to a travelator. The features of the design are those of shape and/or configuration and/or ornamentation.



21: A2020/01546 22: 2020-11-27 23: 2018-11-27  
43: 2021-05-25  
52: Class 08 24: Part A  
71: PRIMO IMPEX CC

**54: SPIGOT**

57: The design is applied to a spigot. 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 spigot, substantially as illustrated in the accompanying representation. Separations depicted by break lines (B) indicate an indeterminate length and any portions between the break lines do not form part of the design and are disclaimed.

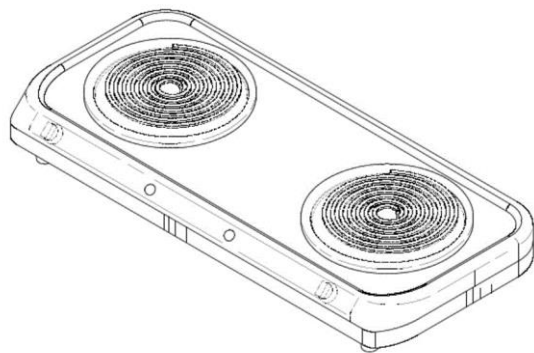


21: A2021/00354 22: 2021-04-07 23: 2018-11-27

43: 2021-04-07  
 52: Class 7 24: Part A  
 71: ZHANG, Di

**54: STOVE**

57: The design is applied to a stove. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a stove, substantially as illustrated in the accompanying representations. The dotted portions are disclaimed and do not form any part of the claimed design.



Three-dimensional view

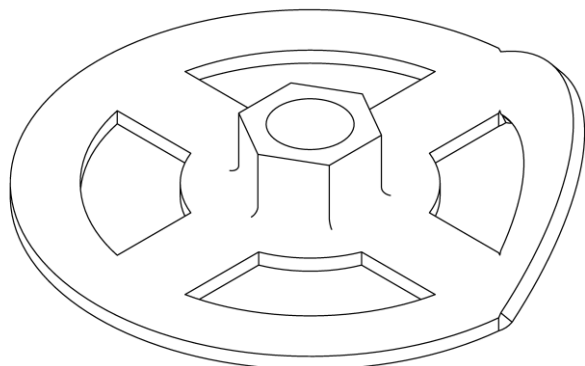
21: F2019/00850 22: 2019-06-21 23: 2018-11-27  
 43: 2020-02-12

52: Class 08 24: Part F

71: DREAM AFRICAN FOUNDATION (PTY) LTD

**54: DOUBLE NUT WASHER**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the double nut washer substantially as shown in the accompanying representations. The double nut washer may be fastened to a threaded portion of a roof bolt in order to secure a support structure, such as wire netting or Oslo straps, to the roof bolt.



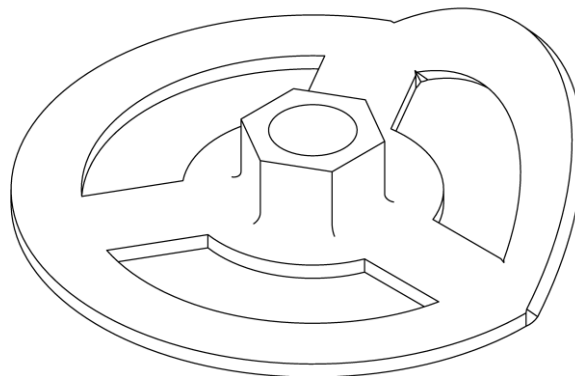
21: F2019/00852 22: 2019-06-21 23: 2018-11-27

43: 2020-02-12  
 52: Class 08 24: Part F

71: DREAM AFRICAN FOUNDATION (PTY) LTD

**54: DOUBLE NUT WASHER**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the double nut washer substantially as shown in the accompanying representations. The double nut washer may be fastened to a threaded portion of a roof bolt in order to secure a support structure, such as wire netting or Oslo straps, to the roof bolt.



21: F2019/01845 22: 2019-12-20 23: 2018-11-27  
 43: 2019-06-21

52: Class 8 24: Part F

71: Gripple Limited

33: EM(GB) 31: 006588752-0002 32: 2019-06-21

**54: SECURING DEVICES**

57: The design relates to a securing device in the form of a hanger for the discreet suspension of signage, decorations, acoustic panels, lighting and displays. When seen in front and rear views, the device has a circular outline. Concentric circular formations are provided on a front and rear surface of the device. A pair of diagonally opposing arrow formations is provided on the front and rear surfaces, wherein each arrow points to a centre line of the surface. A mid-section is sandwiched between the front and rear surfaces. A pair of diametrically opposing tabs protrudes from the mid-section and, when seen in front and rear view, each tab extends beyond the outline of the front and rear surfaces. The mid-section is configured to receive a suspension filament to allow a user to suspend articles therefrom.

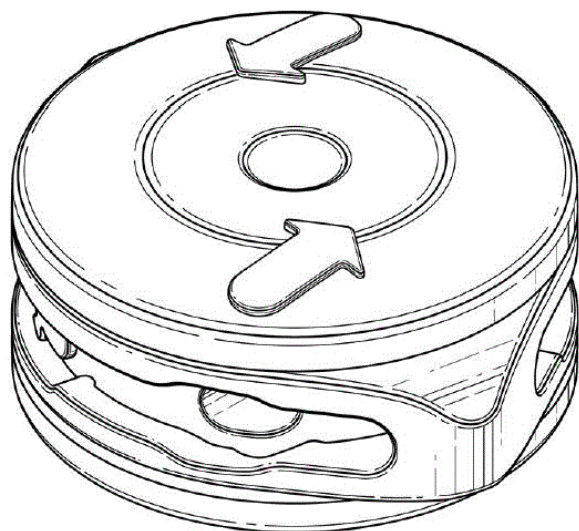


Figure 1

Three-dimensional view

21: F2019/01846 22: 2019-12-20 23: 2018-11-27  
43: 2019-06-21  
52: Class 8 24: Part F  
71: Gripple Limited  
33: EM(GB) 31: 006588752-0003 32: 2019-06-21

**54: SECURING DEVICES**

57: The design relates to a securing device in the form of a hanger for the discreet suspension of signage, decorations, acoustic panels, lighting and displays. When seen in front and rear views, the device has a circular outline. Concentric circular formations are provided on a front and rear surface of the device. A mid-section is sandwiched between the front and rear surfaces. A pair of diametrically opposing tabs protrudes from the mid-section and, when seen in front and rear view, each tab extends beyond the outline of the front and rear surfaces. The mid-section is configured to receive a suspension filament to allow a user to suspend articles therefrom.

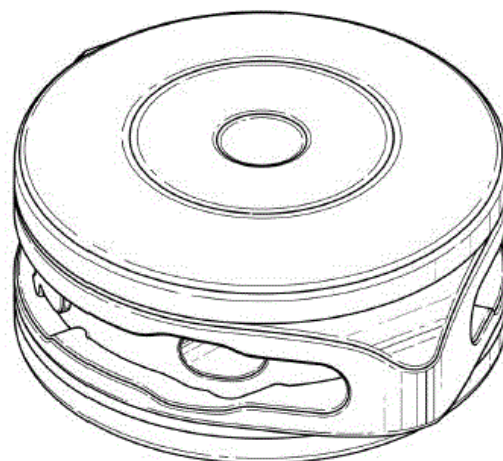


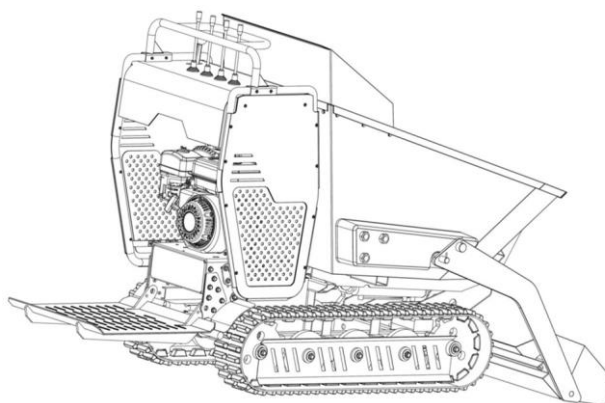
Figure 1

Three-dimensional view

21: F2020/00167 22: 2020-02-12 23: 2018-11-27  
43: 2021-05-24  
52: Class 12 24: Part F  
71: CHONGQING POWERFRONT MACHINERY CO., LTD.

**54: MINI DUMPER**

57: The design is applied to a mini dumper. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mini dumper, substantially as illustrated in the accompanying representation.

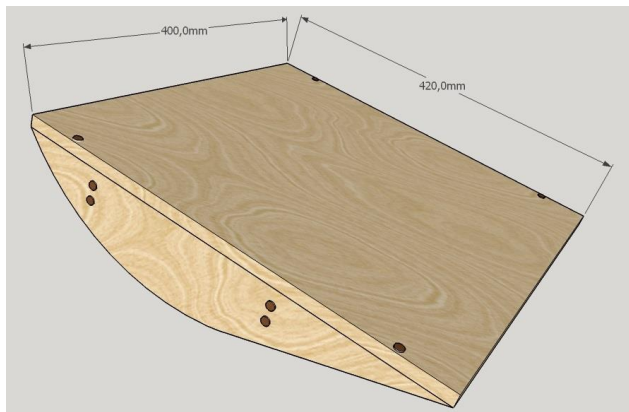


21: F2020/00234 22: 2020-02-26 23: 2018-11-27  
43: 2021-05-21  
52: Class 21 24: Part F  
71: GOMES, Sean Antoni

**54: EXERCISE APPARATUS**

57: The design is for an exercise apparatus comprising a rectangular deck with asymmetrical curved walls extending below two opposing edges of

the deck and two slats extending between the two curved walls.

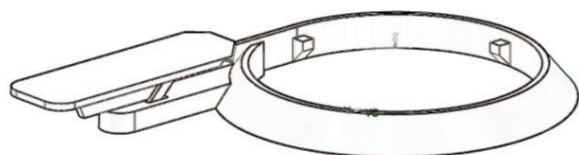


21: F2020/00235 22: 2020-02-26 23: 2018-11-27  
43: 2021-06-21

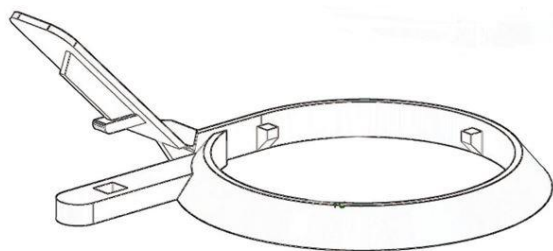
52: Class 08 24: Part F  
71: Christen Michael Iversen

**54: FITTING TO SECURE AND RELEASE A GLASS-BREAKING DEVICE**

57: The design relates to a fitting to secure and release a glass-breaking device. The features of the design for which protection is claimed are those in the shape and/or configuration as shown in the accompanying illustrations.



(CLOSED VIEW)



(OPEN VIEW)

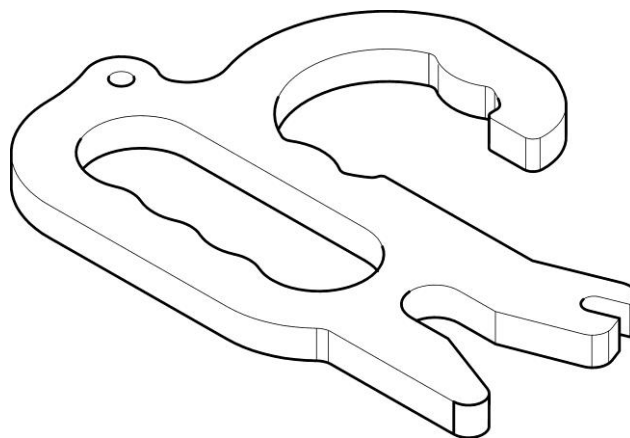
21: F2020/00730 22: 2020-06-04 23: 2018-11-27  
43: 2021-06-09

52: Class 08 24: Part F  
71: ANCHOR MARKETING (PTY) LTD

**54: A HAND EXTENSION TOOL**

57: The design is applied to a hand extension tool. The features of the design for which protection is

claimed are those of the shape and/or configuration of the hand extension tool, substantially as illustrated in the accompanying representation. Surface shading lines are provided to indicate the surface character and contours but do not form part of the design and are disclaimed.

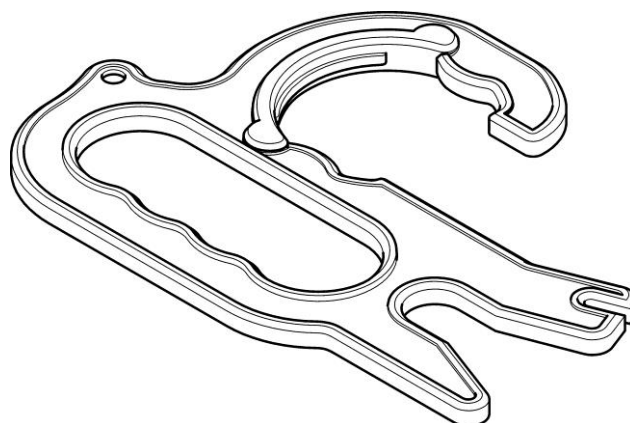


21: F2020/00731 22: 2020-06-04 23: 2018-11-27  
43: 2021-06-09

52: Class 08 24: Part F  
71: ANCHOR MARKETING (PTY) LTD

**54: A HAND EXTENSION TOOL**

57: The design is applied to a hand extension tool. The features of the design for which protection is claimed are those of the shape and/or configuration of the hand extension tool, substantially as illustrated in the accompanying representation. Surface shading lines are provided to indicate the surface character and contours but do not form part of the design and are disclaimed.



21: F2020/01023 22: 2020-07-24 23: 2018-11-27  
43: 2021-05-21  
52: Class 29 24:



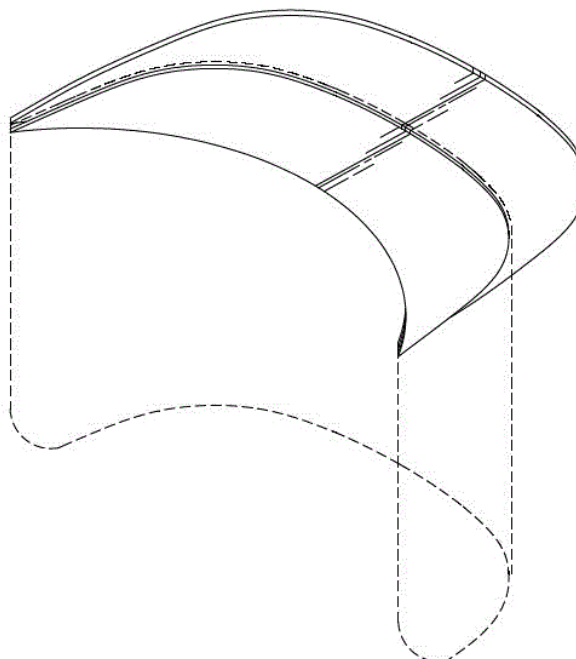
71: HUDACO TRADING (PTY) LIMITED

**54: FACE MASK FILTER CARTRIDGE**

57: The design relates to a face mask filter cartridge. The features of the design are those of shape and/or configuration and/or pattern.



FRONT PERSPECTIVE VIEW



21: F2020/01052 22: 2020-07-31 23: 2018-11-27

43: 2020-07-31

52: Class 2 24: Part F

71: WILL, Edward Henry

**54: Headwear and Headwear Accessories**

57: The design is in respect of an accessory for an article of headwear and/or an article of headwear incorporating the accessory. In particular it relates to a peak or visor of the article of headwear which includes a peak element having an operatively upper surface and operatively lower surface and an attachment member connected to the lower surface of the peak element. The attachment member is similar in shape but of smaller dimensions than the peak element such that the peak element protrudes beyond the attachment element. A recess is defined between an outer edge of the attachment element and the peak element which serves as an attachment formation for receiving a lip of a face shield. The peak element can be attached directly to the remainder of the article of headwear and/or it could be enclosed in a layer of cladding thereby forming a peak accessory.

21: F2020/01066 22: 2020-08-04 23: 2018-11-27

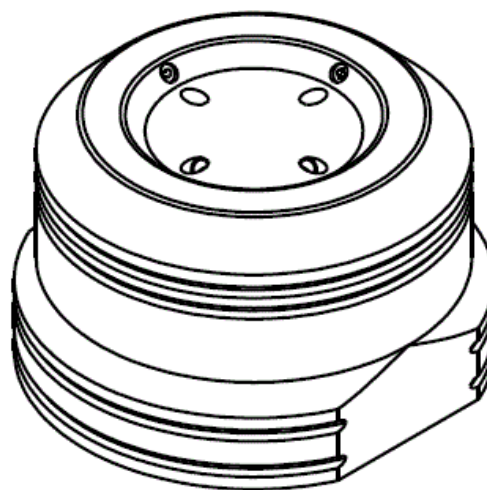
43: 2021-05-24

52: Class 23 24: Part F

71: I-CAT INTERNATIONAL CONSULTING AND TRADING (PTY) LTD

**54: NOZZLE**

57: The design protection is in respect of the shape and/or configuration of a nozzle as shown in the representations.



21: F2020/01087 22: 2020-08-12 23: 2018-11-27

43: 2021-05-24

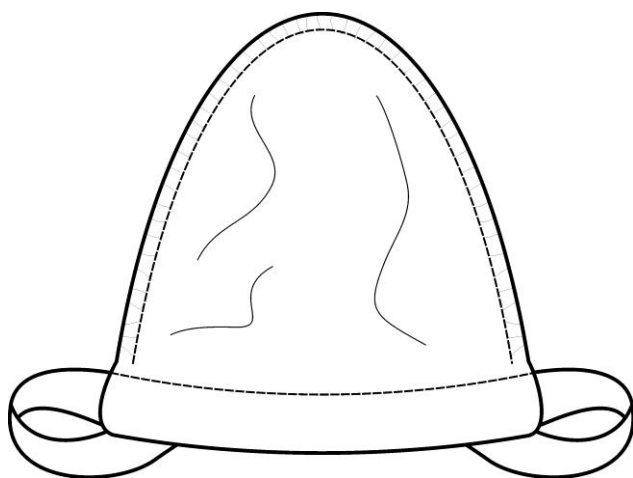
52: Class 29 24: Part F



71: VAN LINGEN, Etienne, SULLIVAN, Chantel  
Nicola

**54: A FACE MASK**

57: The design is applied to a face mask. The features of the design for which protection is claimed are those of the shape and/or configuration of the face mask, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Contour lines are provided to indicate the contours but do not form part of the design and are also disclaimed.



21: F2020/01124 22: 2020-08-18 23: 2018-11-27  
43: 2021-05-21

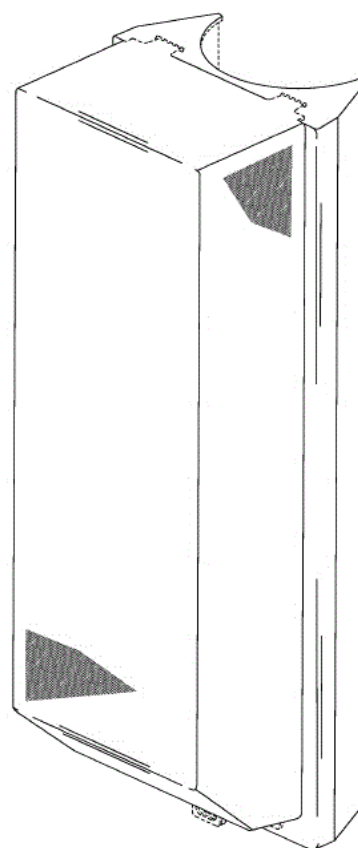
52: Class 14 24: Part F

71: MUSCO CORPORATION

33: US 31: 29/724,906 32: 2020-02-20

**54: NETWORK CABINET**

57: The representation shows a top front perspective view of a network cabinet showing the overall appearance thereof.



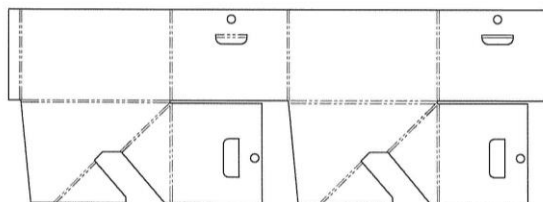
21: F2020/01179 22: 2020-09-02 23: 2018-11-27  
43: 2021-06-18

52: Class 9 24: Part F

71: LOURENS, Shawn

**54: A BLANK FOR A CONTAINER**

57: The features of the design for which protection is claimed include the shape and/or configuration of a blank for a container, substantially as illustrated in the accompanying representations. The components shown in broken lines and the representations showing folded configurations do not form part of the design.



PLAN VIEW OF BLANK

21: F2020/01198 22: 2020-09-03 23: 2018-11-27

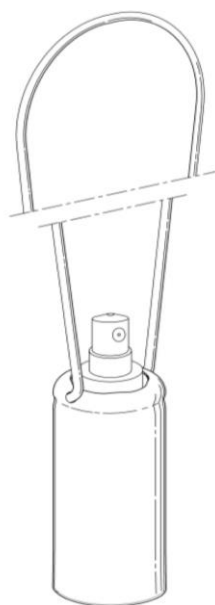
43: 2021-06-18

52: Class 23 24: Part F

71: VAN AS, Louis Jacobus

**54: SANITIZER HOLDERS**

57: The design is for a pouch carrying a sanitizer bottle around a person's neck. The pouch includes a hollow rectangular shaped body, with an opening on an upper end, forming a receptacle for the sanitizer bottle in use. The opening includes a constricted cuff, which secures the sanitizer bottle when inserted within the receptacle, and prevents the sanitizer bottle from being easily removed. The pouch further includes a lanyard of which two ends are attached to opposing sides on an exterior portion of the opening. In use, the pouch is arranged with the opening facing in an upward direction and the lanyard secured around a person's neck, the sanitizer bottle is carried in the pouch, with the nozzle of the bottle protruding from the opening, such that it is easily accessible.



Three-dimensional view

21: F2020/01210 22: 2020-09-04 23: 2018-11-27

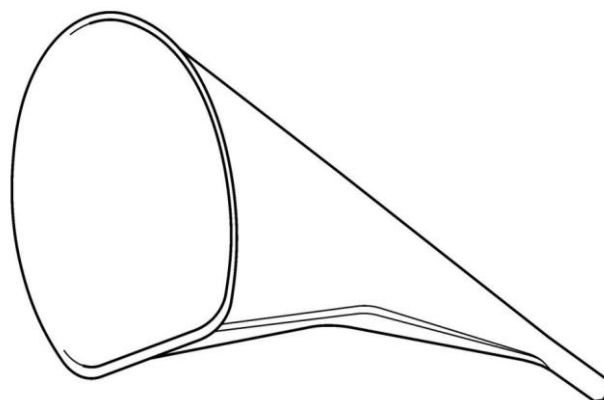
43: 2021-05-24

52: Class 24 24: Part F

71: UNIVERSITY OF THE WESTERN CAPE

**54: DENTAL SUCTION FUNNEL**

57: The design is applied to a dental suction funnel. The features of the design for which protection is claimed are those of the shape and/or configuration of the dental suction funnel, substantially as illustrated in the accompanying representation.



FRONT PERSPECTIVE VIEW

21: F2020/01218 22: 2020-09-10 23: 2018-11-27

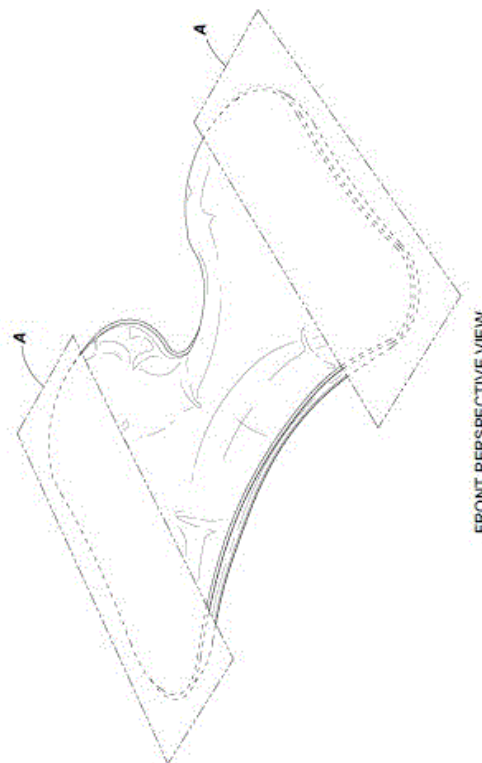
43: 2021-05-25

52: Class 24 24: Part F

71: PLANI, Natascha

**54: A CUSHION**

57: The design is applied to a cushion. The features of the design for which protection is claimed include the shape of the cushion substantially as illustrated in the accompanying drawings.



FRONT PERSPECTIVE VIEW

21: F2020/01227 22: 2020-09-10 23: 2018-11-27

43: 2021-04-22

52: Class 09 24: Part F

71: XOLA KESWA

#### **54: RAISED BED PLANT CONTAINER**

57: Protection is claimed for the features of shape and/or configuration of a raised bed plant container, substantially as shown in the accompanying representations.



21: F2020/01235 22: 2020-09-16 23: 2018-11-27

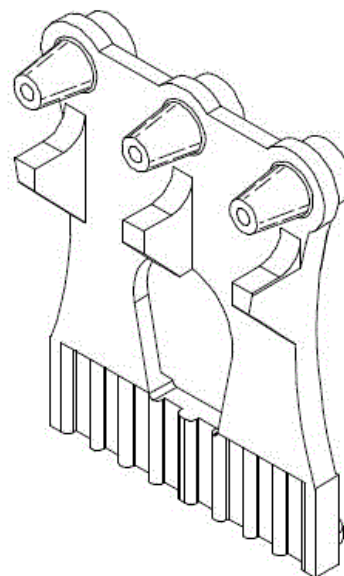
43: 2020-09-16

52: Class 10 24: Part F

71: STUDIO PLASTICS CC

#### **54: HINGE COMPONENTS OF ROAD DELINEATORS**

57: The hinge component has a rectangular body made of Thermoplastic Polyurethane (TPU). The body defines a central aperture having a bulging, semi-circular top and a flat bottom. Three identical mounting formations are provided at a top of the body, each mounting formation having a frusto-conical forwardly projecting portion and an annular rearwardly projecting portion. A base of the body defines a series of upright ridges on a front face and a prominent rearwardly projecting flange on a rear face.



Three-dimensional view from front

21: F2020/01236 22: 2020-09-16 23: 2018-11-27

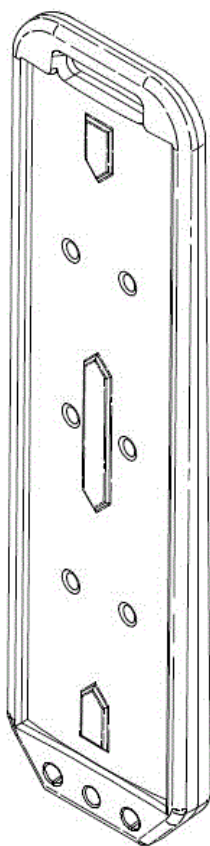
43: 2020-09-16

52: Class 10 24: Part F

71: STUDIO PLASTICS CC

#### **54: BLADE COMPONENTS OF ROAD DELINEATORS**

57: The blade component has a flat rectangular body of Thermoplastic Polyethylene (PE) about four times taller than wide. A top end of the body has rounded corners and defines a rectangular aperture therein. A bottom end of the body has oblique corners and defines three spaced apart mounting apertures therein. Front and rear faces of the body are for providing or accommodating road markings or indicia.



Three-dimensional view from front

21: F2020/01241 22: 2020-09-17 23: 2018-11-27

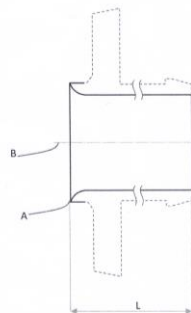
43: 2021-05-24

52: Class 23 24: Part F

71: BATTLEMAX (PTY) LTD

#### **54: THROAT BUSH**

57: The novelty of the design resides in the shape or configuration of a centrifugal pump throat bush which includes a section with an outer surface A which is parallel to an axis B of the throat bush. The shape or configuration of that portion of the throat bush which is shown in dotted line does not form part of the design. The length L is variable.



21: F2020/01256 22: 2020-09-21 23: 2018-11-27

43: 2021-05-24

52: Class 9 24: Part F

71: RANGOUR PRODUCTS LTD

#### **54: A BLANK FOR A FOOD TRAY**

57: The representation shows a top three-dimensional view of a blank for a food tray in accordance with the present design when folded into a food tray showing the overall appearance thereof.



21: F2020/01276 22: 2020-09-23 23: 2018-11-27

43: 2021-05-24

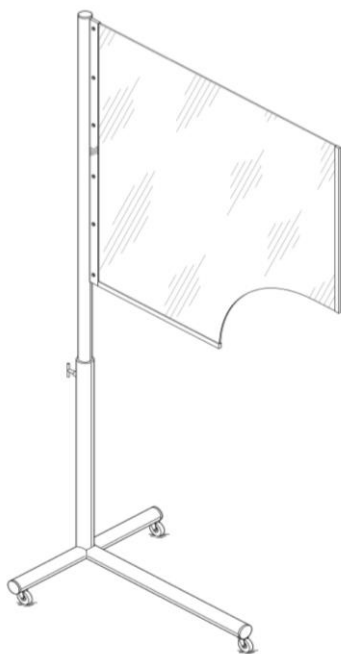
52: Class 24 24: Part F

71: KIPANGA, Ndaya Shindani

#### **54: PORTABLE BED SHIELD**

57: The design is for a portable bed shield, specifically for use as a barrier between a patient and an examiner. The portable bed shield includes a T-shaped base structure with a wheel attached to an end portion of each leg, allowing the base structure to be manoeuvrable. A telescoping rod extending vertically from the base structure which includes two independent elongated members, capable of moving relative to each other, either in a vertical direction and/or rotatably. An adjusting mechanism is disposed near a point of intersection of the two independent elongated members, used to

manage the movement and rotation of the two independent elongated members relative to each other. A plane shape shield is attached to an upper portion of the telescoping rod and extending axially therefrom. The shield includes a cutout in a lower far corner, relative to the telescoping rod, in the shape of a quarter circle.



Three-dimensional view

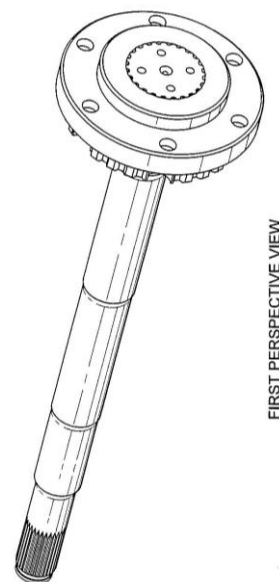
21: F2020/01308 22: 2020-09-29 23: 2018-11-27  
43: 2021-06-18

52: Class 12 24: Part F

71: DU PLESSIS, Hermanus Steyn

#### **54: AXLE ASSEMBLY**

57: The design relates to an axle assembly. The features of the design are those of shape and/or configuration and/or pattern.



FIRST PERSPECTIVE VIEW

21: F2020/01352 22: 2020-10-08 23: 2018-11-27  
43: 2020-10-08

52: Class 20 24: Part F

71: Hewitt & Associates (Pty) Ltd

#### **54: Feet for Display Units**

57: This design is for a foot for a display unit which is usually constructed from a paper based material. The foot comprises an elongate strip-like central foot portion flanked by a pair of planar rectangular wing portions, each with a pair of curved free corners, wherein the wing portions are hingedly attached to the central foot portion. The central foot portion has a solid top and a perforated base which are connected by a pair of parallel side walls, thereby defining a channel therebetween. The wing portion portions comprise a plurality of attachment formations to attach the wing portions together, in use. The attachment formations are typically locatable in suitable aligned apertures of a base portion of the display unit and are attached together such that the foot is operated to a closed configuration in which the base of the display unit is sandwiched between the parallel wing portions and the foot spaces the display stand from a surface on which the display stand rests. The foot spaces the display stand from the ground with a height substantially equal to the distance between the top portion and the base of the central foot portion.



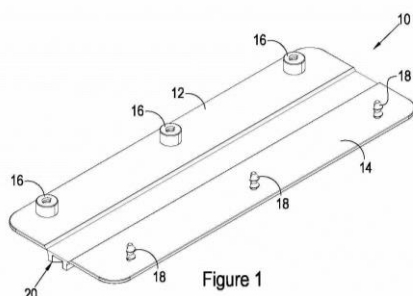


Figure 1

21: F2020/01359 22: 2020-10-13 23: 2018-11-27

43: 2021-05-19

52: Class 24 24: Part F

71: STELLENBOSCH UNIVERSITY

#### 54: AN INTRAMEDULLARY NAIL

57: The design is applied to an intramedullary nail. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the intramedullary nail, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed. Figures 1 to 4 and 9 show non-limiting exemplary sectional views of an intramedullary nail that fall within the scope of protection and are for illustrative purposes only. Separations depicted by break lines indicate an indeterminate length and any portion between the break lines does not form part of the design and is also disclaimed.

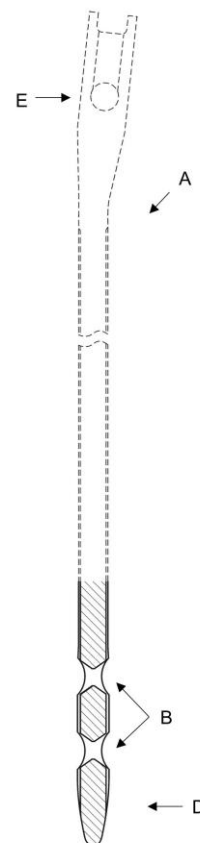


FIGURE 4  
SECTIONAL SIDE VIEW OF  
THE INTRAMEDULLARY  
NAIL

21: F2020/01360 22: 2020-10-14 23: 2018-11-27

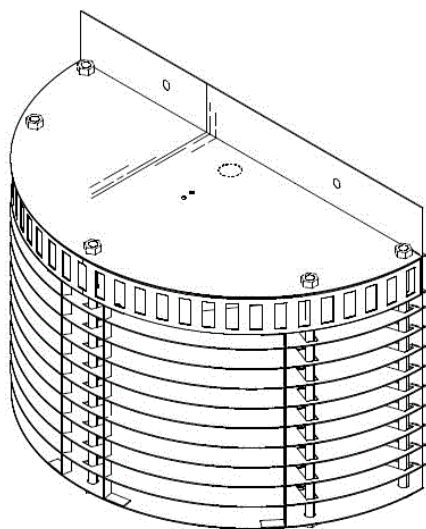
43: 2020-10-14

52: Class 26 24: Part F

71: JACOBS, Gideon Johannes, JACOBS, Johannes Lodewyk

#### 54: LIGHT FIXTURES FOR UVC LIGHT

57: The design is for a light fixture for UVC light. The light fixture has a semi-circular footprint (apparent in top and bottom views) with semi-circular top and bottom walls. A minor top grill in the form of an arcuate band with circumferentially spaced rectangular apertures is provided below the top wall. A major grill in the form of a series of stacked slats is provided between the minor top grill and the bottom wall. The slats are arcuate and are upwardly inclined at an angle of about 15°. Circumferentially spaced upright support elements serve to locate the slats and provide structural rigidity to the light fixture. A UVC light source is provided, in use, inside the light fixture and the slats of the major grill serve to direct the UVC light outwardly and slightly upwardly.



Three-dimensional view from top

21: F2020/01365 22: 2020-10-15 23: 2018-11-27

43: 2021-05-19

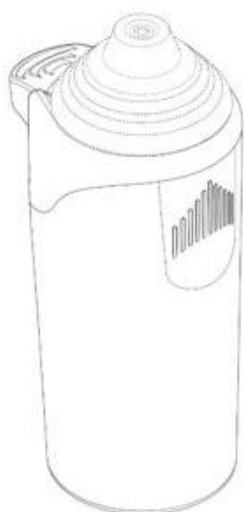
52: Class 24 24: Part F

71: BRILL ENGINES, S.L.

33: EU 31: 007817127-0001 32: 2020-04-17

#### 54: **SPRAYERS**

57: The features of the design for which protection is claimed are those of the shape or configuration of a sprayer substantially as illustrated in the accompanying drawing. The features shown in broken lines are for illustrative purposes only and do not form part of the design.



21: F2020/01369 22: 2020-10-20 23: 2018-11-27

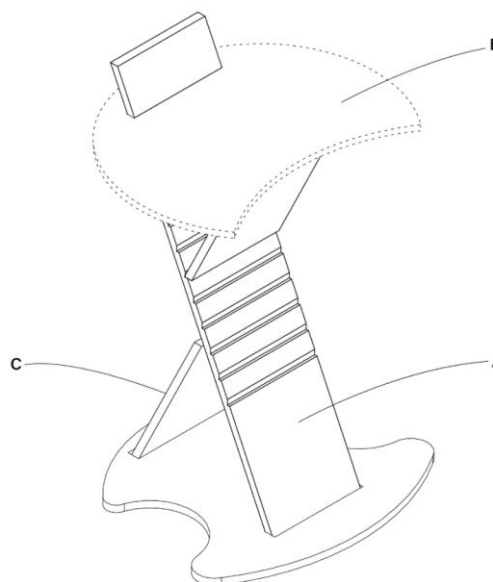
43: 2021-05-25

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: F2020/01388 22: 2020-10-23 23: 2018-11-27

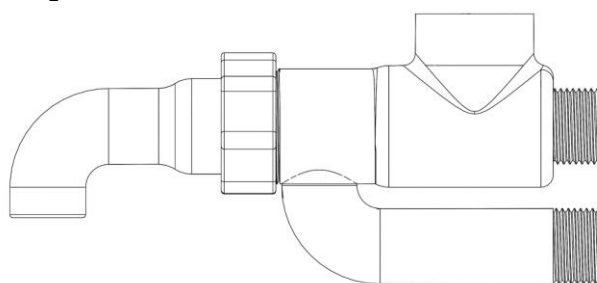
43: 2021-05-25

52: Class 23 24: Part F

71: Mitch van den Bos

#### 54: **TAP**

57: The design relates to a Tap. The features of the design are those of shape and/or pattern and/or configuration.



21: F2020/01417 22: 2020-11-02 23: 2018-11-27

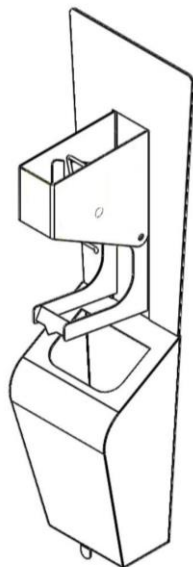
43: 2021-06-02

52: Class 08 24: Part F

71: DUBE, Alexander Memory

#### 54: **FINGERTIP COVERING DISPENSER**

57: The novelty of this design resides in the shape and configuration of a FINGERTIP COVERING DISPENSER substantially as shown in the drawings.



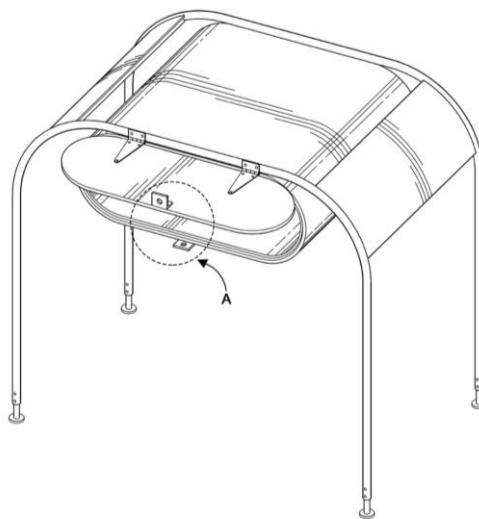
21: F2020/01524 22: 2020-11-25 23: 2018-11-27  
43: 2021-06-09

52: Class 06 24: Part F

71: BROWN, Alan

#### **54: STORAGE CONTAINER STRUCTURES**

57: The design is for a storage container structure, capable of storing goods in an elevated position, which includes a supporting frame and a storage container attached thereto. The supporting frame includes two inverted substantially U-shaped frame members each defining two legs and an elevated crossbar. The two frame members are spaced apart from each other and connected by two transverse beams. The storage container is in the form of a hollow container, of which the rear is closed and an operative front end is open and includes a hinged front cover. A top of the storage container is attached to the elevated crossbars to suspend the storage container there between. Each leg includes telescopic height adjustable feet. In use, the storage container can be disposed above an object, such as a vehicle bonnet, in order to avoid wasted space, between the object and a ceiling.



Three-dimensional view in use

21: F2020/01528 22: 2020-11-25 23: 2018-11-27  
43: 2021-06-09

52: Class 23 24: Part F

71: Agriplas (Pty) Ltd

#### **54: WEIGHT**

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).



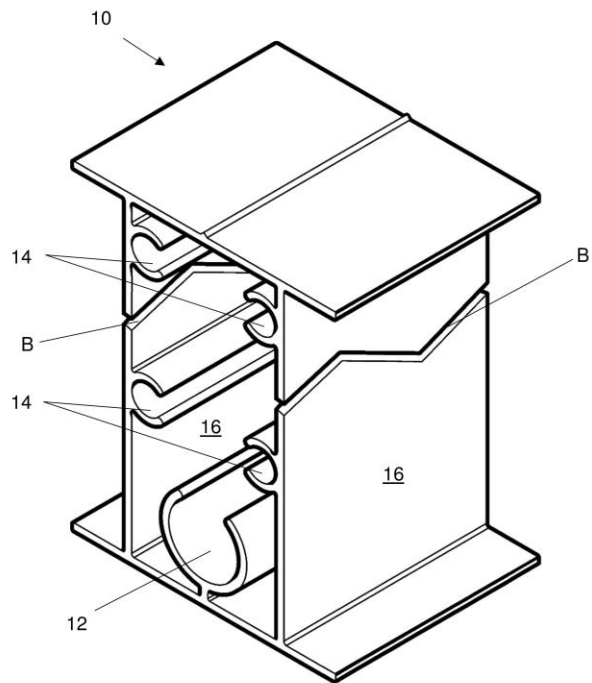
21: F2020/01548 22: 2020-11-27 23: 2018-11-27  
43: 2021-05-25

52: Class 08 24: Part F

71: PRIMO IMPEX CC

#### **54: SPIGOT**

57: The design is applied to a spigot. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the spigot, substantially as illustrated in the accompanying representation. Separations depicted by break lines (B) indicate an indeterminate length and any portions between the break lines do not form part of the design and are disclaimed.



**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.

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No records available

**HYPOTHECATIONS**

No records available

**JUDGMENTS**

No records available

**OFFICE PRACTISE NOTICES**

No records available

## 5. CORRECTION NOTICES

## TRADE MARK CORRECTION NOTICES

No records available

## PATENT CORRECTION NOTICES

The patent under application no: **2019/08154** was advertised in the May 2021 with an incorrect applicant's name and it should have as the one below however the date of publication will remain the **26/05/2021**.

21: 2019/08154. 22: 09/12/2019. 43: 2/26/2021

51: A61K; C07C; C07D

71: **NOVARTIS AG**

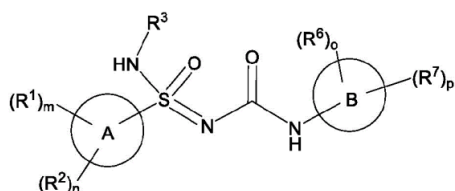
72: GLICK, Gary, ROUSH, William R, VENKATRAMAN, Shankar, SHEN, Dong-Ming, GHOSH, Shomir, KATZ, Jason, SEIDEL, Hans Martin, FRANCHI, Luigi, WINKLER, David Guenther, OPIPARI JR., Anthony William

33: US 31: 62/536,271 32: 2017-07-24 33: US 31: 62/573,894 32: 2017-10-18

**54: COMPOUNDS AND COMPOSITIONS FOR TREATING CONDITIONS ASSOCIATED WITH NLRP ACTIVITY**

00: -

In one aspect, compounds of Formula AA, or a pharmaceutically acceptable salt thereof, are featured. The variables shown in Formula AA are as defined in the claims. The compounds of formula AA are NLRP3 activity modulators and, as such, can be used in the treatment of metabolic disorders (e.g. Type 2 diabetes, atherosclerosis, obesity or gout), a disease of the central nervous system (e.g. Alzheimer's disease, multiple sclerosis, Amyotrophic Lateral Sclerosis or Parkinson's disease), lung disease (e.g. asthma, COPD or pulmonary idiopathic fibrosis), liver disease (e.g. NASH syndrome, viral hepatitis or cirrhosis), pancreatic disease (e.g. acute pancreatitis or chronic pancreatitis), kidney disease (e.g. acute kidney injury or chronic kidney injury), intestinal disease (e.g. Crohn's disease or Ulcerative Colitis), skin disease (e.g. psoriasis), musculoskeletal disease (e.g. scleroderma), a vessel disorder (e.g. giant cell arteritis), a disorder of the bones (e.g. osteoarthritis, osteoporosis or osteopetrosis disorders), eye disease (e.g. glaucoma or macular degeneration), a disease caused by viral infection (e.g. HIV or AIDS), an autoimmune disease (e.g. Rheumatoid Arthritis, Systemic Lupus Erythematosus or Autoimmune Thyroiditis), cancer or aging.



Formula AA

The patent restoration under application no: **2017/03974** was published in the May 2021 journal with incorrect application number which read as **204/07797** instead of **2017/03974** and also the incorrect lapsed date which read as **(25/03/2016** instead of **09/06/2017)**. This patent restoration should have appeared as the one below however the date of publication will remain the **26/05/2021**.

Notice is hereby given **KONINKLIJKE PHILLIPS NV**, represented by **ADAMS & ADAMS 4 DAVENTRY ROAD, LYNNWOOD MANOR. PRETORIA. 0001** 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 **2017/03974** dated **04/11/2015** which became void 09/06/2017 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



## DESIGNS CORRECTION NOTICES

No records available

## COPYRIGHT CORRECTION NOTICES

No records available

## PATENTS

## Advertisement List for July 2021

Number of Advertised Patents: 517

Application Number	Patent Title	Filing Date
2014/01665	VIRAL REPLICATION INHIBITORS	9/26/2012 1
2014/05949	PHARMACEUTICAL PREPARATION CONTAINING AN ANTIVIRALLY ACTIVE DIHYDROQUINAZOLINE DERIVATIVE	8/13/2014 1
2014/06776	SYSTEM AND METHOD OF TRANSMITTING DATA BY USING WIDGET WINDOW	2/15/2013 1
2014/09365	NEW THIENOPYRIMIDINE DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	12/18/2014
2015/00457	ANTI-KIT ANTIBODIES AND USES THEREOF	7/24/2013 1
2015/00754	METHOD OF PRODUCING ERYTHROCYTES WITHOUT FEEDER CELLS	7/1/2010 12
2015/04229	METHODS FOR TREATING PRURITUS	6/11/2015 1
2015/06038	IMAGE CAPTURING	8/20/2015 1
2015/08068	CD19 SPECIFIC CHIMERIC ANTIGEN RECEPTOR AND USES THEREOF	10/30/2015
2016/00102	AN ELECTRICAL PROTECTION DEVICE AND A METHOD OF PROVIDING ELECTRICAL PROTECTION	6/10/2014 1
2016/01128	METHOD FOR INTEGRATING BIOLOGICAL TISSUES WITH A VASCULAR SYSTEM	7/15/2014 1
2016/01697	SUBSTITUTED PYRIMIDINE BMI-1 INHIBITORS	11/21/2013
2016/02153	ELECTRONIC SMOKING ARTICLE	9/26/2014 1
2016/05918	PREPARATION OF CELL-BINDING AGENT CYTOTOXIC AGENT CONJUGATES	8/25/2016 1
2016/06246	GENERATING AN ESTIMATE OF PATIENT RADIATION DOSE RESULTING FROM MEDICAL IMAGING SCANS	9/8/2016 12
2016/06906	MODIFIED J-CHAIN	4/2/2015 12
2016/07286	2,4-THIAZOLIDINEDIONE DERIVATIVES IN THE TREATMENT OF CENTRAL NERVOUS SYSTEM DISORDERS	10/21/2016
2016/08480	METHOD AND PLANT FOR TREATING A MIXTURE OF WASTES WITH TWO COMPOSTING CYCLES	5/22/2015 1
2016/08481	MACHINE FOR SORTING A MIXTURE OF WASTES, AND ASSOCIATED SORTING METHOD	5/22/2015 1

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2016/08720	THERMOBARIC NONEL AND PREPARATION METHOD THEREOF	12/19/2016
2016/08745	THERMOBARIC EXPLOSIVE AND PREPARATION METHOD THEREOF	12/19/2016
2017/00105	AUTOMATED HIV-1 VIRAL LOAD TESTING PROCEDURE FOR DRIED SPOTS	1/5/2017 12
2017/00345	ACETABULAR CUP POSITIONING DEVICE AND METHOD THEREOF	5/16/2015 1
2017/00459	PHARMACEUTICAL COMPOSITION FOR USE IN PREVENTION AND/OR TREATMENT OF DISEASE THAT DEVELOPS OR PROGRESSES AS A RESULT OF DECREASE OR LOSS OF ACTIVITY OF BLOOD COAGULATION FACTOR VIII AND/OR ACTIVATED BLOOD COAGULATION FACTOR VIII	1/19/2017 1
2017/00785	ANTI-PD-L1 ANTIBODIES	8/5/2015 12
2017/01109	COMPOSITIONS FOR TREATING CANCER USING PD-1 AXIS BINDING ANTAGONISTS AND MEK INHIBITORS	7/15/2015 1
2017/01303	OCULAR FORMULATIONS FOR DRUG-DELIVERY AND PROTECTION OF THE ANTERIOR SEGMENT OF THE EYE	9/17/2015 1
2017/01348	NEW POLYPEPTIDES	9/17/2015 1
2017/02347	DOSAGE AND ADMINISTRATION OF NON-FUCOSYLATED ANTI-CD40 ANTIBODIES	10/29/2015
2017/03027	ROCK DRILL	5/2/2017 12
2017/03386	A DEUTERATED TRIAZOLOPYRIDAZINE AS A KINASE MODULATOR	12/3/2015 1
2017/03525	MIXED METAL LARGE CRYSTAL MOLECULAR SIEVE CATALYST COMPOSITIONS, CATALYTIC ARTICLES, SYSTEMS AND METHODS	5/23/2017 1
2017/03789	FROTHERS FOR MINERAL FLOTATION	9/29/2014 1
2017/04421	TABLETS FOR TREATING AND DISINFECTING WATER	6/29/2017 1
2017/04910	FLUIDIC ACTUATOR SYSTEM AND METHOD	7/19/2017 1
2017/05821	ISOTACTIC POLYPROPYLENE BASED COMPOSITE	8/25/2017 1
2017/06069	POLYCRYSTALLINE DIAMOND COMPACTS, AND RELATED METHODS AND APPLICATIONS	4/1/2016 12
2017/06103	PACKAGING CONTAINER	9/7/2015 12
2017/06462	PYROLYSIS OR GASIFICATION APPARATUS AND METHOD	9/26/2017 1
2017/07056	UNITARY HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A UNITARY HEATING ELEMENT	4/22/2016 1
2017/07668	HIGH DEFINITION AND EXTENDED DEPTH OF FIELD INTRAOCULAR LENS	11/13/2017
2017/08006	3,3-DIFLUOROPIPERIDINE CARBAMATE HETEROCYCLIC COMPOUNDS AS NR2B NMDA RECEPTOR ANTAGONISTS	11/24/2017
2017/08202	A WATER HEATER CONTROLLER	6/2/2016 12
2017/08224	MEASURING DEVICE FOR DETERMINING PHYSICAL PROPERTIES, CHEMICAL PROPERTIES, BIOLOGICAL PROPERTIES AND/OR MATERIALS IN THE SURROUNDINGS OF AT LEAST ONE SENSOR OR OF THE AT LEAST ONE SENSOR AS A COMPONENT OF	6/13/2016 1

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	THE MEASURING DEVICE	
2017/08519	A SUPPORT FRAME FOR A TEMPORARY SIGNAL FOR A RAILROAD	6/23/2016 1
2018/00092	VACCINE AGAINST RSV	1/5/2018 12
2018/00183	SYSTEM AND METHOD FOR STARTUP OF A POWER PRODUCTION PLANT	6/13/2016 1
2018/00238	MULTIVALENT AND MULTISPECIFIC DR5-BINDING FUSION PROTEINS	1/12/2018 1
2018/00301	BALL AND CUP IMPACTORS FOR IMPLANTING A HIP PROSTHESIS	7/15/2016 1
2018/00395	BINDER-DRUG CONJUGATES (ADCS) AND BINDER-PRODRUG CONJUGATES (APDCS) HAVING ENZYMATICALLY CLEAVABLE GROUPS	1/19/2018 1
2018/00403	COMBINATION THERAPIES FOR HEME MALIGNANCIES WITH ANTI-CD38 ANTIBODIES AND SURVIVIN INHIBITORS	1/19/2018 1
2018/00416	CHIRAL DIARYL MACROCYCLES AND USES THEREOF	7/20/2016 1
2018/00436	CONTAINED LIQUID SYSTEM FOR REFILLING AEROSOL DELIVERY DEVICES	7/13/2016 1
2018/00532	MOBILE SHAFT WINCH	1/25/2018 1
2018/00578	ROTATION UNIT AND METHOD OF ADJUSTING BEARING CLEARANCE	1/29/2018 1
2018/00591	LIQUID POLYMER DELIVERY SYSTEM FOR EXTENDED ADMINISTRATION OF DRUGS	1/29/2018 1
2018/00633	BIODEGRADABLE ANTIMICROBIAL COMPOSITIONS AND USES THEREOF TO COMBAT MICROORGANISMS	7/8/2016 12
2018/00699	A NOISELESS SELF-VENTILATED MOTOR, IN PARTICULAR FOR A RAILWAY VEHICLE	2/2/2018 12
2018/01167	APPARATUSES AND PROCESSES FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING ORIENTED NON-SPHERICAL MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES	2/20/2018 1
2018/01196	NICOTINAMIDE MONONUCLEOTIDE DERIVATIVES AND THEIR USES	2/21/2018 1
2018/01220	RADIO-FREQUENCY IDENTIFICATION (RFID) AUTHENTICATION SYSTEM FOR AEROSOL DELIVERY DEVICES	7/21/2016 1
2018/01482	MODIFIED CYTOTOXINS AND THEIR THERAPEUTIC USE	3/2/2018 12
2018/01548	CYANO THIENOTRIAZOLODIAZEPINES AND USES THEREOF	9/9/2016 12
2018/01549	ACETAMIDE THIENOTRIAZOLDIAZEPINES AND USES THEREOF	9/9/2016 12
2018/01657	ADENO-ASSOCIATED VIRUS FACTOR VIII VECTORS, ASSOCIATED VIRAL PARTICLES AND THERAPEUTIC FORMULATIONS COMPRISING THE SAME	9/23/2016 1
2018/01669	LIQUID PROTEIN FORMULATIONS CONTAINING IONIC LIQUIDS	9/11/2014 1
2018/01821	EXHAUST GAS TREATMENT CATALYSTS	3/19/2018 1
2018/01849	METHODS AND COMPOSITIONS COMPRISING PURIFIED RECOMBINANT POLYPEPTIDES	9/12/2014 1
2018/01919	AN APPARATUS FOR ON-LINE DETECTION OF	8/24/2016 1

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	MAGNETIC RESONANCE SIGNALS FROM A TARGET MATERIAL IN A MINERAL SLURRY	
2018/02016	MICROPARTICLE COMPOSITIONS COMPRISING SAFLUFENACIL	3/27/2018 1
2018/02080	INTELLIGENT DRIPPING PILL MACHINE FOR CONTINUOUS LIQUID SOLIDIFICATION	9/14/2016 1
2018/02083	INTELLIGENT CONTINUOUS MANUFACTURING METHOD VIA LIQUID COOLING OF DRIPPING PILLS	9/14/2016 1
2018/02088	COMBINATION THERAPY FOR TREATING MALIGNANCIES	10/14/2016
2018/02133	SYSTEMS AND METHODS FOR COLLECTING A SPECIES	9/28/2016 1
2018/02201	NOVEL FORMULATION AND TREATMENT METHODS	9/29/2016 1
2018/02380	DISCHARGE MEMBER WITH FILTER	11/2/2016 1
2018/02816	MELFLUFEN DOSAGE REGIMENS FOR CANCER	12/1/2016 1
2018/02831	COMPOSITION FOR THE TREATMENT OF IGF-1R EXPRESSING CANCER	10/26/2016
2018/02900	A PROCESS TO ENHANCE THE BIOACTIVITY OF ASHWAGANDHA EXTRACTS	10/18/2016
2018/03399	AGENT EXHIBITING ANTI-STRESS, ANXIOLYTIC AND ANTI-DEPRESSION ACTIVITY, AND COMPOSITION BASED THEREON	5/22/2018 1
2018/03644	AN ADJUVANT	5/31/2018 1
2018/03737	Holster	6/6/2018 12
2018/03979	METHOD OF TREATING OR AMELIORATING METABOLIC DISORDERS USING BINDING PROTEINS FOR GASTRIC INHIBITORY PEPTIDE RECEPTOR (GIPR) IN COMBINATION WITH GLP-1 AGONISTS	6/14/2018 1
2018/04429	RECONFIGURABLE CARRYING CASE	7/2/2018 12
2018/05375	INSECTICIDAL AND BACTERICIDAL AEROSOL AND PREPARATION METHOD THEREOF	8/13/2018 1
2018/05594	ROCK BOLT CABLE	8/22/2018 1
2018/05783	SOLID-LIQUID CRUDE OIL COMPOSITIONS AND FRACTIONATION PROCESSES THEREOF	4/4/2017 12
2018/05850	METHODS AND DEVICES OPERATING WITH FINE TIMING REFERENCE SIGNALS TRANSMITTED OCCASIONALLY	6/21/2016 1
2018/07095	ELECTROLYZER	10/24/2018
2018/07470	HYDROALCOHOLIC EMULSION	11/7/2018 1
2018/05594	ROCK BOLT CABLE	8/22/2018 1
2018/05783	SOLID-LIQUID CRUDE OIL COMPOSITIONS AND FRACTIONATION PROCESSES THEREOF	4/4/2017 12
2018/05850	METHODS AND DEVICES OPERATING WITH FINE TIMING REFERENCE SIGNALS TRANSMITTED OCCASIONALLY	6/21/2016 1
2018/07095	ELECTROLYZER	10/24/2018
2018/07470	HYDROALCOHOLIC EMULSION	11/7/2018 1
2018/07801	EXPANSION SHELL	11/20/2018
2018/08059	IMPROVEMENTS IN OR RELATING TO CONNECTING DEVICES	11/28/2018
2018/08081	METHOD FOR SYNTHESIZING NCA BATTERY MATERIAL BY EXPLOSION METHOD	11/29/2018

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2018/08286	NEW (HETERO)ARYL-SUBSTITUTED-PIPERIDINYL DERIVATIVES, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	12/7/2018 1
2018/08380	A BREATH TESTER	12/12/2018
2018/08521	BUCHU PREPARATION	6/13/2017 1
2018/08545	WIND TURBINE TOWER WITH REINFORCING ELEMENTS	12/19/2018
2018/08581	POTENT AND BALANCED BIDIRECTIONAL PROMOTER	12/19/2018
2019/00064	METHOD AND SYSTEM FOR X-RAY FLUORESCENCE (XRF) ANALYSIS OF EXPLORATION SAMPLES	6/30/2017 1
2019/00116	METHODS TO IMPROVE GENETIC TRANSFORMATION OF SORGHUM	1/8/2019 12
2019/00221	METHOD FOR SYNTHESIZING NCA BATTERY MATERIAL BY COMBUSTION AND EVEN DEFLAGRATION	1/14/2019 1
2019/00403	SAFETY CLUTCH	7/25/2017 1
2019/00535	BLOCKCHAIN IMPLEMENTED METHOD AND SYSTEM	1/25/2019 1
2019/00600	CATHODE ASSEMBLY FOR THE PRODUCTION OF ALUMINUM	7/26/2017 1
2019/00735	AEROSOL DELIVERY DEVICE WITH CONDENSING AND NON-CONDENSING VAPORIZATION	7/3/2017 12
2019/00749	A BAG	5/25/2017 1
2019/00767	PORTABLE FOLDABLE TOILET SEAT OVERLAY APPARATUS	11/21/2016
2019/00843	ISOLATING TRANSFORMER	7/11/2017 1
2019/01031	DATA STORAGE, DATA CHECK, AND DATA LINKAGE METHOD AND APPARATUS	8/8/2017 12
2019/01049	DEVICES, SYSTEMS, AND METHODS FOR ADHERENCE MONITORING AND DEVICES, SYSTEMS, AND METHODS FOR MONITORING USE OF CONSUMABLE DISPENSERS	8/27/2014 1
2019/01087	AEROSOL DELIVERY DEVICE WITH A UNITARY RESERVOIR AND LIQUID TRANSPORT ELEMENT	7/18/2017 1



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	COMPRISING A POROUS MONOLITH AND RELATED METHOD	
2019/01452	AN IMPROVED PLASTIC CONTAINER BODY AND CONTAINER CLOSURE AND CARRY HANDLE GRIP / CONTAINER LEVERAGE OPENING TOOL ASSEMBLY	8/11/2016 1
2019/01468	A TOILET FLUSHING UNIT	3/8/2019 12
2019/01524	APPARATUS AND METHOD FOR RECOVERING PARTICLES FROM A SLURRY	3/12/2019 1
2019/01560	ROCK-CUTTING TOOL AND METHOD FOR MINE AND OIL DRILLING	11/8/2017 1
2019/01579	A DEVICE AND SYSTEM FOR GENERATING AN AUGMENTED RECEIPT	9/14/2017 1
2019/01589	NANO-BUBBLE&#160;GENERATOR&#160;AND&#160;METHOD&#160;OF&#160;GENERATING&#160;NANO-BUBBLES	9/6/2017 12
2019/01598	HIGH PERFORMANCES MULTIMODAL ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	9/11/2017 1
2019/01827	PYRIDO FIVE-ELEMENT AROMATIC RING COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF	3/25/2019 1
2019/02021	ANTIMICROBIAL SURFACTANTS AND WATER BORNE COATINGS COMPRISING THE SAME	9/7/2017 12
2019/02109	A DETONATOR HOLDER	4/4/2019 12
2019/02114	METHOD OF ADMINISTERING A NEUROSTEROID TO EFFECT ELECTROENCEPHALOGRAPHIC (EEG) BURST SUPPRESSION	10/13/2017
2019/02248	HOP PRODUCTS	10/19/2017
2019/02460	IDENTITY RECOGNITION METHOD AND DEVICE	9/19/2017 1
2019/02972	POSTURE CORRECTOR AND RUCKSACK WITH POSTURE CORRECTOR	4/20/2018 1
2019/03056	JAR WITH EXTERNALLY NESTED BOTTLE	5/15/2019 1
2019/03109	SYSTEM AND METHOD FOR INFORMATION PROTECTION	12/29/2018
2019/03224	CARBON FIBERS WHICH CAN BE PRODUCED REGENERATIVELY OR PART-REGENERATIVELY FROM CO2 USING COMBINED PRODUCTION METHODS	10/30/2017
2019/03283	GROUND MOVEMENT EARLY WARNING DEVICE	5/23/2019 1
2019/03303	SCAN AND PAY METHOD AND DEVICE UTILIZED IN MOBILE APPARATUS	12/25/2017
2019/03443	PROTECTIVE DEVICE FOR A HIGH VOLTAGE CONDUCTOR	5/30/2019 1
2019/03529	METHOD AND SYSTEM FOR PRODUCING OLEFINS	10/20/2017

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2019/03625	SYSTEM AND METHOD OF ACQUISITION, REGISTRATION AND MULTIMEDIA MANAGEMENT	1/14/2018 1
2019/03676	DEVICES, SYSTEMS, AND METHODS FOR MAINTAINING LIGHT INTENSITY IN A GATEWAY BASED LIGHTING SYSTEM	11/10/2017
2019/03677	SYSTEM AND METHOD FOR PREDICTING EMERGENCY LIGHTING FIXTURE LIFE EXPECTANCY	11/10/2017
2019/03791	ROD-MOUNTABLE HOLDER	6/12/2019 1
2019/03792	A SWIVEL JOINT FOR A POLE	6/12/2019 1
2019/03916	A DUMPER BODY THAT INCLUDES STRUCTURAL TRANSITIONING	6/18/2019 1
2019/03917	AUTOMATIC INTERLOCK SYSTEM	6/18/2019 1
2019/04014	METHOD AND APPARATUS FOR MONITORING SURFACE DEFORMATIONS OF A SCENARIO	12/15/2017
2019/04015	COMPACT ELECTRIC MOTOR WITH HEAT DISSIPATION STRUCTURE	11/3/2017 1
2019/04025	DUMP BODY THAT INCLUDES A PIVOT ASSEMBLY WITH EXTERNALLY ACCESSIBLE GUSSETS	6/18/2019 1
2019/04026	RAZOR WIRE	6/21/2019 1
2019/04034	DIELECTRIC HEATING OF THREE-DIMENSIONAL CARBON NANOSTRUCTURED POROUS FOAMS AS A HEAT EXCHANGER FOR VOLUMETRIC HEATING OF FLOWING FLUIDS	11/23/2016
2019/04215	DRIFT REDUCTION ADJUVANT COMPOSITIONS AND METHODS OF USING SAME	6/27/2019 1
2019/04415	METHOD AND DEVICE FOR DETECTING DEFECTS IN THE CLOSURE OF ENCAPSULATED VIALS	7/5/2019 12
2019/04690	COMPOSITION	7/17/2019 1
2019/04742	USER MOBILITY METHOD AND DEVICE	12/19/2017
2019/05100	TOFACITINIB ORAL SUSTAINED RELEASE DOSAGE FORMS	7/29/2019 1
2019/05256	ROCK BREAKING GRAIN AND PREPARATION METHOD THEREOF	8/8/2019 12
2019/05259	ROCK BREAKING GRAIN CHARGING STRUCTURE AND CHARGING METHOD	8/8/2019 12
2019/05293	SYSTEM AND METHOD FOR TREATING SOIL	8/12/2019 1
2019/05401	PROCESS FOR THE GRAVIMETRIC FILING IN STERILE CONDITIONS OF SOLIDS IN A PHARMACEUTICAL CONTAINER	3/20/2018 1
2019/05739	INFORMATION PROCESSING METHOD, APPARATUS AND COMMUNICATIONS DEVICE	8/30/2019 1
2019/05863	A PRESSURE-BEARING MODULE HOT WATER CONTROL SYSTEM WITH MULTIPLE ENERGY SOURCES	8/15/2019 1
2019/05949	A MOBILE WEIGHING DEVICE	9/10/2019 1
2019/05958	NEUTRAL ENDOPEPTIDASE (NEP) AND HUMAN SOLUBLE ENDOPEPTIDASE (HSEP) INHIBITORS TO REDUCE HARMFUL EFFECTS OF PERFUSION	1/31/2019 1

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	DEFICIENCY OF ORGANS	
2019/05959	NEUTRAL ENDOPEPTIDASE (NEP) AND HUMAN SOLUBLE ENDOPEPTIDASE (HSEP) INHIBITORS FOR PROPHYLAXIS AND TREATMENT OF EYE DISEASES	1/31/2019 1
2019/05960	METHODS TO REDUCE HARMFUL EFFECTS OF SMOKING CIGARETTES, CIGARS AND TOBACCO, AND OF EXPOSURE TO SMOKE FROM CIGARETTES, CIGARS AND TOBACCO BY USING KYNURENIC ACID IN NANOPARTICLE CARRIER SYSTEMS	6/14/2017 1
2019/05993	POOL HOSE RETAINER	9/11/2019 1
2019/05994	CONVERTER SLAG PROCESSING SYSTEM AND PROCESSING METHOD THEREOF	9/11/2019 1
2019/05995	MOVABLE FRAME, SIMULATION TEST SYSTEM AND SIMULATION METHOD THEREOF	9/11/2019 1
2019/05997	METHOD OF ESTIMATING THE END OF LIFE OF A CONE CRUSHER HOPPER LINER AND SPINDLE MANTLE	9/11/2019 1
2019/06056	HYDROPHOBIC DUT-4 AND PREPARATION METHOD THEREOF	9/13/2019 1
2019/06059	METHOD OF TREATING OR AMELIORATING METABOLIC DISORDERS USING BINDING PROTEINS FOR GASTRIC INHIBITORY PEPTIDE RECEPTOR (GIPR) IN COMBINATION WITH GLP-1 AGONISTS	9/13/2019 1
2019/06061	ROCK DRILL FEED ARRANGEMENT	9/13/2019 1
2019/06068	IMPROVED DOWNLIGHT	2/16/2018 1
2019/06094	DIETARY FIBER AND PREPARATION METHOD	9/16/2019 1
2019/06125	PILLAR LANTERN RING FOR A SHAFT SEALING SYSTEM	9/17/2019 1
2019/06132	SYSTEM AND METHOD FOR DUCTED VENTILATION	2/22/2018 1
2019/06134	IMPROVEMENTS IN FANS	2/22/2018 1
2019/06165	PULSE WELDING METHOD AND WELDING TOOL FOR PULSE WELDING FOR A MEDICAL PACK FORMED AS A BAG	3/23/2018 1
2019/06305	ACTIVATED PECTIN-CONTAINING BIOMASS COMPOSITIONS, PRODUCTS, AND METHODS OF PRODUCING	2/14/2018 1
2019/06338	MULTI LAYERED RE-USABLE SANITARY PAD	9/26/2019 1
2019/06339	METHODS FOR TREATING PRURITUS	9/26/2019 1
2019/06806	FLUIDIC ACTUATOR SYSTEM AND METHOD	10/16/2019
2019/06870	PROCESS FOR OLIGOMERIZING OLEFINS WITH STREAMS HAVING A REDUCED OLEFIN CONTENT	10/18/2019
2019/06921	RESOURCE ALLOCATION METHOD, APPARATUS AND SYSTEM	3/23/2017 1
2019/07090	ARTICLE DISPENSER	10/28/2019
2019/07119	ANTITUMORAL COMPOUNDS	4/27/2018 1
2019/07136	IP6K INHIBITORS	3/29/2018 1

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2019/07266	EXCREMENT-DRYING DEVICE	5/2/2018 12
2019/07379	CURVED-GLASS THERMOFORMING DEVICE AND METHOD THEREFOR	5/24/2019 1
2019/07393	TRANSMISSION SYSTEM FOR A BLIND	11/7/2019 1
2019/07545	A METHOD FOR PRODUCING POTASSIUM 1,1 - DINITRAMINO-5,5-BISTETRAZOLATE AND EXPLOSIVE COMPOSITIONS COMPRISING SAID SALT	5/10/2018 1
2019/07655	A PRINT BAR STRUCTURE, A PRINTING APPARATUS, AND A METHOD OF PRINTING	11/19/2019
2019/07980	INFORMATION EXCHANGE FOR INITIAL USER EQUIPMENT ACCESS	11/16/2018
2019/08266	DIRECTIONAL SURFACE MARKING SAFETY AND GUIDANCE DEVICES AND SYSTEMS	8/10/2018 1
2019/08358	COATED PARTICLES AND THEIR USES	12/13/2019
2019/08367	MOLTEN SALT REACTOR	6/15/2018 1
2019/08429	A FINANCIAL TRANSACTION SYSTEM AND METHOD	12/18/2019
2019/08613	A SMOKING ARTICLE FOR IDENTIFYING AN ATTRIBUTE OF AN AEROSOL-GENERATING ELEMENT FOR ADAPTIVE POWER OUTPUT AND AN ASSOCIATED METHOD	6/28/2018 1
2020/00007	SUPERSONIC NOZZLE VORTEX TUBE REFRIGERATION AND NANO-FLUID MINIMAL QUANTITY LUBRICATION COUPLING SUPPLY SYSTEM	1/2/2020 12
2020/00050	METHOD FOR ROASTING COFFEE BEANS	1/3/2020 12
2020/00051	ANTIBODIES THAT SPECIFICALLY BIND PD-1 AND METHODS OF USE	1/3/2020 12
2020/00059	NASAL DOSAGE FORMS OF DIHYDROERGOTAMINE	7/2/2018 12
2020/00092	PRESSURE-CONTROLLED SINGLE-PUMP DRAINAGE DEVICE AND METHOD FOR INDEPENDENT GAS-BEARING SYSTEMS IN MULTIPLE COAL SEAMS	5/5/2019 12
2020/00094	WATER-SOLUBLE PACKAGE	7/3/2018 12
2020/00096	AN APPARATUS FOR DISPENSING A MIXTURE OF A DILUENT AND AN ADDITIVE FOR SANITATION, COSMETIC OR CLEANING APPLICATIONS	6/29/2018 1
2020/00112	EFFICIENT PRODUCTION OF PICHIA YEASTS AND THEIR USE FOR ENHANCING PLANT AND ANIMAL HEALTH	7/19/2018 1
2020/00113	ANTI-CTLA-4 ANTIBODIES AND USES THEREOF	7/26/2018 1
2020/00145	COMBINATION COMPRISING PALBOCICLIB AND 6-(2,4-DICHLOROPHENYL)-5-[4-[(3S)-1-(3-FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9-DIHYDRO-7H-BENZO[7] ANNULENE-2-CARBOXYLIC ACID AND ITS USE FOR THE TREATMENT OF CANCER	7/23/2018 1
2020/00146	COMMUNICATION APPARATUS, METHOD AND COMPUTER PROGRAM	1/9/2020 12
2020/00173	PRE-FILLED DRINKING STRAW WITH A CROSS-SLIT VALVE CLOSURE ON BOTH ENDS	6/20/2017 1
2020/00185	LOCKING DEVICE WITH TRACKING FUNCTIONALITY	1/10/2020 1
2020/00190	MODULAR LUMINAIRE HEAD	1/10/2020 1
2020/00207	AGRICULTURAL COMPOSITIONS	5/10/2018 1
2020/00208	3-(1-OXOISOINDOLIN-2-YL)PIPERIDINE-2,6-DIONE DERIVATIVES AND USES THEREOF	8/23/2018 1

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2020/00215	LONG-ACTING FORMULATIONS	1/13/2020 1
2020/00245	METHOD AND APPARATUS FOR PASTEURIZING AND DEHYDRATING MARIJUANA	8/30/2017 1
2020/00265	NANOPARTICLE, CONTRAST AGENT FOR MAGNETIC RESONANCE IMAGING CONTAINING SAME, AND LIGAND COMPOUND	6/27/2018 1
2020/00309	OUTER CAP FOR A CHILD-RESISTANT CLOSURE, CHILD-RESISTANT CLOSURE, CONTAINER WITH SUCH CLOSURE AND ITS USE	1/16/2020 1
2020/00387	AIR BLASTER	6/20/2018 1
2020/00399	HETEROCYCLYLMETHYLIDENE DERIVATIVES AND THEIR USE AS MODULATORS OF MGLUR5 RECEPTORS	6/29/2018 1
2020/00424	POLYOLEFIN COMPOSITION FOR ENHANCED LASER PRINTING	10/4/2018 1
2020/00446	LIGHTING APPARATUS WITH CONTROLLABLE LIGHT DISTRIBUTION	1/22/2020 1
2020/00463	PROCESS FOR RECOVERING ACETIC ACID FROM AN AQUEOUS STREAM COMPRISING THE SAME	1/23/2020 1
2020/00479	ETHANE OXIDATIVE DEHYDROGENATION	8/2/2018 12
2020/00481	FLOATING AND SUBMERSIBLE OFFSHORE AQUACULTURE INSTALLATION	6/27/2018 1
2020/00486	PLANT FOR IMMERSION OF BODYWORKS	7/30/2018 1
2020/00521	TABLE ADVERTISING CHARGING STATION	1/27/2020 1
2020/00530	PROSTACYCLIN RECEPTOR AGONISTS FOR REDUCTION OF BODY FAT	7/27/2018 1
2020/00573	PROCESS FOR PRODUCTION OF ANISOTROPIC COKE	1/29/2020 1
2020/00585	NOVEL COMPOUNDS	8/15/2018 1
2020/00588	STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND ACID SCAVENGERS	1/29/2020 1
2020/00589	STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND HINDERED AMINE LIGHT STABILIZERS	1/29/2020 1
2020/00591	STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND HINDERED PHENOLIC ANTIOXIDANTS	1/29/2020 1
2020/00592	STABILIZED POLYOLEFIN COMPOSITIONS COMPRISING BENZOFURANONES AND ORGANOPHOSPHORUS STABILIZERS	1/29/2020 1
2020/00625	ETHANE OXIDATIVE DEHYDROGENATION	8/2/2018 12
2020/00627	AN AUTOMATIC GEMSTONE POLISHING ROBOT	8/11/2018 1
2020/00636	IMPROVED DUAL SPECIFICITY POLYPEPTIDE MOLECULE	1/30/2020 1
2020/00638	MOBILE FIRE EXTINGUISHING APPARATUS WITH PRESSURIZED FOAM GENERATION	1/30/2020 1
2020/00641	METHOD AND DEVICE FOR DETACHING AN ADHERING CHARGE FROM THE INNER SIDE OF A GRINDING PIPE OF A TUBE MILL	1/30/2020 1
2020/00666	HYBRID DRIVE TRANSMISSION UNIT AND METHOD FOR OPERATING A VEHICLE WITH A HYBRID DRIVE	1/31/2020 1
2020/00714	USER EQUIPMENT AND BASE STATION APPARATUS	2/4/2020 12



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2020/00784	POLYMER COMPOSITION WITH IMPROVED PAINT ADHESION	11/6/2018 1
2020/00797	POSITIONING OF SENSORS FOR SENSOR ENABLED WOUND MONITORING OR THERAPY	8/10/2018 1
2020/00829	A CHUTE	2/10/2020 1
2020/00839	METHOD AND COMPOSITION TO CONTROL RUMEN RELEASE OF COBALT TO RUMEN BACTERIA FOR MAKING VITAMIN B12	6/28/2018 1
2020/00875	IMIDAZO[1,5-A]PYRAZINE DERIVATIVES AS PI3KDELTA INHIBITORS	9/7/2018 12
2020/00901	HOT WATER TANK	7/17/2018 1
2020/00970	PENTACYCLIC COMPOUND	2/14/2020 1
2020/01101	POLYMER FIBER HAVING IMPROVED LONG-TERM DISPERSIBILITY	9/12/2018 1
2020/01121	TELESCOPE HAVING IMPROVED PERFORMANCE	8/21/2018 1
2020/01267	SUBSTITUTED IMIDAZOQUINOLINES AS AGONISTS OF TLR7	8/31/2018 1
2020/01391	TOPOLOGY PROCESSING METHOD, APPARATUS, AND SYSTEM	3/4/2020 12
2020/01405	HOT STICK QUICK CONNECT SURGE ARRESTER ASSEMBLY	3/5/2020 12
2020/01414	FIBER REINFORCED POLYPROPYLENE COMPOSITION	12/4/2018 1
2020/01416	A FIREARM WITH INTERCHANGEABLE SIGHTING DEVICE SYSTEM	8/14/2018 1
2020/01418	THERAPEUTIC INDAZOLES	8/29/2018 1
2020/01438	UPLINK TRANSMISSION METHOD AND TERMINAL DEVICE	8/9/2017 12
2020/01441	METHOD FOR DETECTING OFF-TYPE OF BRASSICA OLERACEA PLANT	8/17/2018 1
2020/01474	WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	8/10/2017 1
2020/01475	METHOD FOR PREPARING AN INHIBITED STARCH	7/11/2018 1
2020/01539	MULTI-BEAM RANDOM ACCESS PROCEDURE IN HANDOVER EXECUTION	9/27/2018 1
2020/01542	ROD FEEDING DEVICE AND METHOD AT ROD FEEDING DEVICE	11/28/2018
2020/01543	INTERLEAVING BEFORE CRC CODING A NR PBCH PAYLOAD INCLUDING KNOWN BITS TO ENHANCE POLAR CODE PERFORMANCE	10/3/2018 1
2020/01560	PLUG SEEDLING PICKING MECHANISM WITH SECOND-ORDER ELLIPTICAL PLANETARY GEAR TRAIN	3/12/2020 1
2020/01561	HUMAN CYTOMEGALOVIRUS IMMUNOGENIC COMPOSITION	9/11/2018 1
2020/01572	RISK DETERMINATION FOR NEOPLASIA AND CANCER	9/29/2017 1
2020/01606	METHOD AND APPARATUS FOR END ROUNDING BRISTLES	8/16/2018 1
2020/01607	LOCATING AND DETECTING DEVICE COMPRISING A PLURALITY OF PHOTODIODES	9/20/2018 1
2020/01634	METHOD AND SYSTEM FOR TREATING AND/OR PURIFYING WATER	7/2/2018 12

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2020/01648	WINE BOTTLE AND METHOD	9/13/2018 1
2020/01649	RNA MOLECULES	9/17/2018 1
2020/01650	PDCP UL SPLIT AND PRE-PROCESSING	9/26/2018 1
2020/01675	PREPARATION AND STORAGE OF LIPOSOMAL RNA FORMULATIONS SUITABLE FOR THERAPY	10/18/2018
2020/01677	COMPOSITION COMPRISING A STRUCTURED AQUEOUS PHASE AND SERICIN	10/9/2018 1
2020/01679	ADENO-ASSOCIATED VIRUS VARIANT CAPSIDS AND METHODS OF USE THEREOF	9/19/2018 1
2020/01682	DETERGENT COMPOSITION COMPRISING HYDRATE-FORMING SALT PARTICLES COATED WITH BETAINE	9/10/2018 1
2020/01704	AEROSOL-GENERATING ARTICLE HAVING MOUTHPIECE WITH UPSTREAM CAVITY	11/27/2018
2020/01708	NOVEL CROP FORTIFICATION, NUTRITION AND CROP PROTECTION COMPOSITION	7/27/2018 1
2020/01709	NOVEL CROP FORTIFICATION, NUTRITION AND CROP PROTECTION COMPOSITION	7/14/2018 1
2020/01839	HEAVY DUTY SHROUD	7/25/2018 1
2020/02045	EMERGENCY WHEEL	10/8/2018 1
2020/02057	LOCKING DEVICE FOR A SWITCH CABINET AND CORRESPONDING SWITCH CABINET	9/14/2018 1
2020/02066	COMPOSITIONS AND METHODS FOR THE TREATMENT OF EYE DISORDERS	9/22/2018 1
2020/02082	CONTROLLING BANDWIDTH IN ENCODERS AND/OR DECODERS	11/6/2018 1
2020/02120	NEW AGROCHEMICAL PESTICIDE COMPOSITIONS	5/4/2020 12
2020/02148	EXERCISE TREADMILL	10/18/2018
2020/02149	A SAFETY DEVICE FOR PASSAGE OF PIPES ON BOATS	9/26/2018 1
2020/02315	P38 KINASE INHIBITORS REDUCE DUX4 AND DOWNSTREAM GENE EXPRESSION FOR THE TREATMENT OF FSHD	10/5/2018 1
2020/02390	A COATED STEEL SUBSTRATE	12/11/2018
2020/02417	NOVEL GAMMA DELTA T-CELL RECEPTOR AND ITS LIGAND	11/16/2018
2020/02476	PREPARATION METHOD OF SUPER-HYDROPHOBIC LIGNIN SPONGE WITH OIL-WATER SEPARATION FUNCTION	5/6/2020 12
2020/02688	AN APPARATUS FOR FUEL GAS PRODUCTION AND COMBUSTION	10/5/2018 1
2020/02926	A METHOD AND A COMPUTER SYSTEM FOR PROVIDING A ROUTE OR A ROUTE DURATION FOR A JOURNEY FROM A SOURCE LOCATION TO A TARGET LOCATION	11/7/2018 1
2020/03170	COMPOSITE MOULDED ELECTRIC FENCE POST	5/28/2020 1
2020/03259	A PNEUMATIC DRILL HAMMER	11/7/2018 1
2020/03267	NOVEL COMBINATIONS OF DEFOLIANTS	6/1/2020 12
2020/03311	METHOD FOR IDENTIFYING SALT TOLERANCE OF DIFFERENT WHEAT CULTIVAR IN GERMINATION PERIOD	6/3/2020 12
2020/03313	A MANIPULATING DEVICE	6/3/2020 12
2020/03325	GLUCOCORTICOID RECEPTOR AGONIST AND	6/3/2020 12

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	IMMUNOCONJUGATES THEREOF	
2020/03342	GRID STRUCTURE	6/4/2020 12
2020/03343	A TENSIONER	6/4/2020 12
2020/03411	ARRANGEMENT FOR A LATENT-HEAT EXCHANGER CHAMBER	12/4/2018 1
2020/03412	MECHANICAL VAPOUR COMPRESSION ARRANGEMENT HAVING A LOW COMPRESSION RATIO	12/4/2018 1
2020/03427	CAST IRON INOCULANT AND METHOD FOR PRODUCTION OF CAST IRON INOCULANT	6/8/2020 12
2020/03435	PROCESS FOR PREPARING AN ALCOHOL FROM HYDROCARBONS	6/9/2020 12
2020/03436	PROCESS FOR PREPARING CARBOXYLIC ACIDS OR SALTS THEREOF FROM HYDROCARBONS	6/9/2020 12
2020/03455	VEHICLE PANE, VEHICLE, AND METHOD FOR PRODUCING SAME	6/9/2020 12
2020/03461	PROCESS FOR PREPARING AN ESTER BY ALKOXYCARBONYLATION	6/10/2020 1
2020/03466	TEST METHOD AND SYSTEM FOR SULFATE ATTACK RESISTANCE OF CONCRETE MATERIAL	6/10/2020 1
2020/03487	POLYMORPHS	6/10/2020 1
2020/03532	HIGH STRENGTH AND HIGH FORMABILITY STEEL SHEET AND MANUFACTURING METHOD	12/18/2018
2020/03537	SYSTEM AND METHOD FOR PROVIDING REAL-TIME TARGETED ADVERTISEMENTS	6/12/2020 1
2020/03540	CAST IRON INOCULANT AND METHOD FOR PRODUCTION OF CAST IRON INOCULANT	6/12/2020 1
2020/03573	SAFE AND RELIABLE UPPER LIMB EXERCISE DEVICE	12/27/2018
2020/03609	TRACK AND TRACE SYSTEM FOR AND RELATED METHOD OF MANAGING THE DISPENSING OF A PRODUCT	6/17/2020 1
2020/03614	METHOD FOR SIMULTANEOUSLY DETERMINING SEVEN COMPONENTS IN CORN FRUCTUS	6/17/2020 1
2020/03629	HIGH-TEMPERATURE FOAMS WITH REDUCED RESIN ABSORPTION FOR PRODUCING SANDWICH MATERIALS	6/17/2020 1
2020/03766	AN X-RAY IMAGING DEVICE	6/22/2020 1
2020/03801	AUTOMATIC VENEER GRADE CLASSIFICATION DEVICE AND VENEER GRADE CLASSIFICATION METHOD	6/23/2020 1
2020/03849	VCAR COMPOSITIONS AND METHODS FOR USE	12/20/2018
2020/03858	MONOCLONAL ANTIBODIES AND METHODS FOR USING SAME	12/25/2018
2020/03877	COMPLEX COMPRISING A PSMA-TARGETING COMPOUND LINKED TO A LEAD OR THORIUM RADIONUCLIDE	12/13/2018
2020/03891	MINING OR CONSTRUCTION VEHICLE ASSISTANCE SYSTEM	6/26/2020 1
2020/03900	HERBICIDAL COMBINATIONS	6/26/2020 1
2020/03902	HERBICIDAL COMBINATIONS	6/26/2020 1
2020/03906	SUPPORT FOR DRILLING AND BOLTING TOOL	12/13/2018
2020/03907	FLUORESCENT PCR DETECTION KIT FOR	5/27/2019 1

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	IDENTIFYING FOUR ARACEAE MEDICINAL PLANTS AND USE THEREOF	
2020/03909	FLUORESCENCE PCR DETECTION KIT FOR IDENTIFYING DENDROBIUM OFFICINALE KIMURA ET MIGO AND USE	5/27/2019 1
2020/03931	SUPPORT BRACKET FOR A ROPE	6/29/2020 1
2020/03933	A BEARING	6/29/2020 1
2020/03934	LOCKING OUT A MACHINE TO PROHIBIT MOVEMENT	6/29/2020 1
2020/03942	HIGH STRENGTH ALUMINIUM ALLOY FOR RAPID SOLIDIFICATION MANUFACTURING PROCESSES	6/29/2020 1
2020/03976	A MANIPULATING DEVICE	6/30/2020 1
2020/03981	PROCESS FOR THE PREPARATION OF 2-(5-METHOXYISUCHROMAN-1-YL)-4,5-DIHYDRO-1 H-IMIDAZOLE AND THE HYDROGENSULFATE SALT THEREOF	6/30/2020 1
2020/03982	RNAI CONSTRUCTS FOR INHIBITING PNPLA3 EXPRESSION	6/30/2020 1
2020/04029	ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE FIBER WITH ULTRA-HIGH CUT RESISTANCE AND PREPARATION METHOD THEREOF	9/11/2019 1
2020/04030	PERSONAL PROGRESSIVE JACKPOT SYSTEM	10/31/2018
2020/04038	FRAUD PROTECTION IN SUBSCRIPTION FLOWS FOR MOBILE APPLICATION SERVICES	7/2/2020 12
2020/04044	A PANEL FOR A BUILDING STRUCTURE HAVING A PREDEFINED CURVATURE AND A METHOD OF MANUFACTURING SUCH PANEL	1/15/2019 1
2020/04078	SYSTEM AND METHOD FOR GPS ALIGNMENT USING REAL-TIME KINETICS	1/23/2019 1
2020/04098	GAME BOARD	7/6/2020 12
2020/04158	FOOD DEHYDRATOR	1/7/2019 12
2020/04165	TREATMENT METHOD OF PHOSPHORUS-CONTAINING SEWAGE	7/8/2020 12
2020/04179	REINFORCEMENT FOR CEMENT - AND STEEL-BASED STRUCTURES	12/17/2018
2020/04199	AN APPARATUS FOR ENHANCING PERFORMANCE OF AN ALUMINIUM REDUCTION CELL IN A SMELTING PROCESS	7/9/2020 12
2020/04259	DYNAMIC LIGAMENT BALANCING SYSTEM WITH PIN POSITIONING BLOCK	1/28/2019 1
2020/04276	ANTI-JAM CONTROL SYSTEM FOR MOBILE DRILLING MACHINES	7/13/2020 1
2020/04311	PYRAZOLE AMIDE COMPOUND AND APPLICATION THEREOF, AND FUNGICIDE	11/23/2018
2020/04323	PRODUCTION OF HIGH CARBON FERROMANGANESE	1/10/2019 1
2020/04324	METHOD OF COMMUNICATING THROUGH THE EARTH USING A MAGNETIC FIELD	3/26/2019 1
2020/04333	DEVICE FOR CLEANING CYLINDRICAL PARABOLIC SOLAR CONCENTRATOR PANELS	12/19/2018
2020/04338	ENCLOSURE FOR AN APPARATUS FOR SOLID WASTE MANAGEMENT	7/15/2020 1
2020/04341	LEAVENING APPARATUS FOR LEAVENING DOUGH PIECES, AND METHOD, IN PARTICULAR FOR	1/18/2019 1

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	OPERATING SUCH A LEAVENING APPARATUS	
2020/04364	FACE MASK	7/16/2020 1
2020/04371	DEVICE FOR CONTINUOUSLY SAMPLING OCEAN SURFACE WATER	4/2/2019 12
2020/04399	PANEL FIXING SYSTEM AND COMPONENTS THEREOF	7/17/2020 1
2020/04409	TOKEN SORTING APPARATUS	1/31/2019 1
2020/04449	METHOD AND SYSTEM FOR DETERMINING LIGHT SOURCE FOR PLANT GROWTH	7/20/2020 1
2020/04456	METHOD AND DEVICE FOR STABILIZING PRECURSOR FIBERS FOR THE PRODUCTION OF CARBON FIBERS	3/11/2019 1
2020/04458	DEVICE FOR DEFLECTING LINKS AND TURRET EQUIPPED WITH SUCH A DEFLECTOR DEVICE	12/20/2018
2020/04485	SHEET ARRANGEMENT	7/21/2020 1
2020/04486	SHEET ARRANGEMENT	7/21/2020 1
2020/04487	HEALTH EVALUATION METHOD AND SYSTEM OF MINERS	7/21/2020 1
2020/04488	METHOD AND SYSTEM FOR EVALUATING NUTRITIONAL METABOLISM OF MINERS BASED ON RANDOM FOREST AND WORD2VEC	7/21/2020 1
2020/04496	A BOWL FOR A BATCH CENTRIFUGAL CONCENTRATOR	1/25/2019 1
2020/04498	EMERGENCY WHEEL	1/18/2019 1
2020/04521	RAPID DETERMINATION OF WATER-SOLUBLE PROTEIN AND TOTAL SUGAR IN ROYAL JELLY METHOD	7/22/2020 1
2020/04546	INDICATION OF MOISTURE CONTENT OF MEAT	1/31/2020 1
2020/04556	ELECTRIC FENCE TEST INSTRUMENT	7/23/2020 1
2020/04614	FRACTIONAL-ORDER CHAOTIC SYSTEM WITH HIDDEN ATTRACTORS AND LINEAR EQUILIBRIUM POINTS	7/27/2020 1
2020/04627	COLOUR GRADING PROCESS AND SYSTEM FOR DIAMONDS	12/28/2018
2020/04651	SYSTEMS AND METHODS FOR DEVICE DETECTION AND REGISTRATION	7/28/2020 1
2020/04712	NETWORK USAGE PRODUCT PROVISIONING VIA A MOBILE WALLET PLATFORM	7/30/2020 1
2020/04722	DEVICE FOR DETECTING INSECT LARVAE AND ADULT INSECTS IN STORED PRODUCTS BY SENSING THEIR VOLATILE PHEROMONES AND SEMIOCHEMICALS	2/1/2019 12
2020/04783	HIGH-FREQUENCY SIGNAL STIMULATOR SYSTEM	1/30/2019 1
2020/04934	MULTI-SUBSTITUTED BENZENE COMPOUND HAVING BIOLOGICAL ACTIVITY, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF	12/28/2018
2020/05003	METHOD FOR REDUCING THE AMOUNT OF AMBIENT RADIO FREQUENCY ELECTROMAGNETIC AND PULSATING MAGNETIC FIELDS, METHOD FOR DRYING WET WALLS, AND USING THE DEVICE FOR DRYING WET WALLS	8/13/2020 1
2020/05008	REMOTE CONTROL FEEDING DEVICE OF CHIRAL NANOFILTRATION MEMBRANE FORMING MACHINE	8/10/2018 1
2020/05009	BLOCKCHAIN-BASED STUDENT MANAGEMENT	8/10/2018 1



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	TERMINAL APPARATUS	
2020/05035	NASAL BREATHING TRAINING TAPE AND METHOD	8/14/2020 1
2020/05048	METHOD FOR PRODUCING A PRESS-HARDENED LASER WELDED STEEL PART AND PRESSHARDENED LASER WELDED STEEL PART	2/26/2019 1
2020/05076	METHOD AND DEVICE FOR THE DETERMINATION OF FILM FORMING AMINES IN A LIQUID	4/3/2018 12
2020/05119	DEVICE FOR PURIFYING DRINKING WATER	1/23/2019 1
2020/05162	SYSTEM AND METHOD FOR MONITORING MODULAR CONVEYOR BELTS	2/28/2019 1
2020/05164	OBJECT IDENTIFICATION IN DATA RELATING TO SIGNALS THAT ARE NOT HUMAN PERCEPTIBLE	3/1/2019 12
2020/05177	FORGED PART OF BAINITIC STEEL AND A METHOD OF MANUFACTURING THEREOF	3/15/2019 1
2020/05179	METHOD FOR PREPARING PHLOROGLUCINOL	6/15/2018 1
2020/05245	FABRIC HAVING FUNCTION OF PREVENTING AND TREATING HYPERTENSION	9/2/2018 12
2020/05246	FABRIC FOR PROTECTION AGAINST ARTHRITIS	8/23/2018 1
2020/05247	FABRIC FOR PREVENTING AND TREATING COLD	8/23/2018 1
2020/05248	FABRIC FOR PREVENTING AND CONTROLLING RHEUMATOID ARTHRITIS	8/23/2018 1
2020/05279	JUNCTION DEVICE FOR CONVEYOR BELTS	2/22/2019 1
2020/05280	JOINING DEVICE WITH SPACER FOR LINKING THE TWO ENDS OF A CONVEYOR BELT	2/22/2019 1
2020/05306	WEIGHING SCALE ARRANGEMENT	8/26/2020 1
2020/05316	CONTACTLESS COMMUNICATION-BASED FINANCIAL TRANSACTIONS	3/6/2019 12
2020/05337	DISC MOTOR BASED ON DOVETAIL SLOT WEDGE COOLING SYSTEM	8/27/2020 1
2020/05343	TOUR BUS	8/27/2020 1
2020/05361	FUNGAL STRAIN OF THE GENUS TRICHODERMA AND METHOD FOR PROMOTING PLANT GROWTH	3/12/2019 1
2020/05409	SECURITY SYSTEM AND METHOD	8/31/2020 1
2020/05415	METHOD AND SYSTEM FOR MULTIPLE PRODUCT REDEMPTION	8/22/2019 1
2020/05471	THERMAL RUNAWAY HAZARD EVALUATION METHOD OF CHEMICAL PROCESS	8/14/2019 1
2020/05511	METHOD FOR DIP-COATING A METAL STRIP	2/14/2019 1
2020/05570	INTERSPINOUS FUSION DEVICE	3/25/2019 1
2020/05572	REINFORCING CABLE HAVING INCREASED DEGREE OF BONDING	3/1/2018 12
2020/05738	MOBILE ADVERTISING ARRANGEMENT	9/16/2020 1
2020/05767	HYDROLOGICAL MODEL BASED ON GEOMORPHOLOGIC UNIT HYDROGRAPH	9/17/2020 1
2020/05770	PROPERTY BROKERAGE METHOD AND SYSTEM	9/17/2020 1
2020/05900	REMOVABLE POWER ASSIST FOR MANUAL WHEELCHAIR	4/26/2019 1
2020/05904	MANUALLY OPERATED WATER TREATMENT DEVICE AND METHOD FOR WASHING THE FILTER OF SAID DEVICE	3/29/2019 1
2020/06203	RAILWAY WHEEL WITH REPLACEABLE TYRE	10/7/2020 1

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2020/06352	JACKETS WITH POCKETS AND REMOVABLE SLEEVES FOR USE IN THE HOSPITAL SETTING	5/6/2019 12
2020/06353	QUALITATIVE AND SEMIQUANTITATIVE DETECTION KIT FOR TOXICANTS AND QUALITATIVE AND SEMIQUANTITATIVE METHOD FOR TOXICANTS	3/24/2020 1
2020/06354	USE OF MULTILINEAGE DIFFERENTIATING STRESS ENDURING CELLS, DRUG FOR TREATING DIABETES AND PREPARATION METHOD THEREOF	3/24/2020 1
2020/06355	USE OF MULTILINEAGE DIFFERENTIATING STRESS ENDURING CELLS, DRUG FOR TREATING PERIPHERAL NERVE INJURY AND PREPARATION METHOD THEREOF	3/24/2020 1
2020/06357	TOOL STORAGE DEVICE FOR LAPAROSCOPIC SURGERY	3/24/2020 1
2020/06358	ROAD STRUCTURE FOR EXPRESSWAY INTERSECTION	3/24/2020 1
2020/06360	SUSPENSION CONTAINING LOW-METHOXYLATION PECTIN AND MONTMORILLONITE AND USED FOR TREATING ACUTE DIARRHEA	3/24/2020 1
2020/06370	DEUTERATED ANALOGS OF ELACRIDAR	3/21/2019 1
2020/06418	SYSTEM AND METHOD FOR MANAGING AND CONTROLLING A DYNAMIC TUNNELING PROTOCOL IN A MESH NETWORK	3/29/2019 1
2020/06419	SYSTEM AND METHOD FOR MANAGING AND CONTROLLING A DYNAMIC TUNNELING PROTOCOL IN A MESH NETWORK	3/29/2019 1
2020/06447	SYNERGISTIC RECONFIGURABLE TRAFFIC INTERSECTION	12/21/2018
2020/06466	ECOLOGICAL PURIFICATION SYSTEM FOR THREE-DIMENSIONAL CONTROL OF AGRICULTURAL NON-POINT SOURCE POLLUTION WASTEWATER AND CONSTRUCTION METHOD	10/15/2020
2020/06467	AN ACCESSORY FOR A VEHICLE	10/15/2020
2020/06531	KILN FROM METAL FOR IMPROVED PRODUCTION OF CHARCOAL	10/21/2020
2020/06638	ONE POT SYNTHESIS OF 4-(1,2-DIHYDRO-2-OXOBENZO[D]IMIDAZOL-3-YL)BUTANOIC ACID, A KEY INTERMEDIATE OF ZILPATEROL	3/4/2019 12
2020/06656	ANTIVIRAL IMMUNOTROPIC AGENT FOR THE TREATMENT OF ACUTE RESPIRATORY VIRAL INFECTIONS	1/22/2019 1
2020/06789	APPARATUS AND METHOD FOR ENCLOSING A SECTION OF AN UNDERGROUND MINE	10/30/2020
2020/06791	ANTI-EXPLOSION SAFETY DEVICE FOR CONTAINERS FOR VALUABLE MATERIALS	10/30/2020
2020/06916	TURBOCHARGER	5/7/2019 12
2020/07023	METHOD FOR IMPROVING THE PRODUCTIVITY OF GRINDING PLANTS	5/7/2019 12
2020/07085	DEVICES AND METHODS FOR IN SITU SOIL ANALYSIS	5/8/2019 12
2020/07150	AIR HEATING AND HUMIDIFYING SYSTEM	11/17/2020
2020/07180	METHOD FOR SIMULATING INTRAPLATE VOLCANISM	11/16/2020
2020/07249	EMERGENCY POWER SUPPLY AND HOUSING	11/20/2020

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	THEREFOR	
2020/07442	VEHICLE LOAD BAY COVER	11/30/2020
2020/07480	METHOD FOR MAKING OF COATED TWO SIDE ART PAPER WITH HIGH BULK AND HIGH GLOSS	4/18/2020 1
2020/07536	SYSTEM AND METHOD FOR INJECTING POULTRY	6/14/2019 1
2020/07597	METHOD FOR DETERMINING TREATMENT OF ORTHOPAEDIC IMBALANCES, AND APPARATUS THEREFOR	3/15/2019 1
2020/07634	METHOD FOR PREPARING FOAMED BUFFER MATERIAL FROM WASTE PAPER RECYCLING SLUDGE	12/8/2020 1
2020/07922	A TYPE 2 HOMOLOGOUS CRISPR/CAS9 GENE EDITING SYSTEM AND ITS CONSTRUCTION METHOD	12/18/2020
2020/07923	A KIT TO DETECT CERVICAL CANCER CAUSED BY HPV INFECTION	12/18/2020
2020/07924	HPV TEST KIT BASED ON CRISPR-CAS12A AND G-QUADRUPLEX-HEMIN	12/18/2020
2020/07927	JUNCTION DEVICE FOR CONVEYOR BELT	6/25/2019 1
2021/00501	AN INTELLIGENT LIGHTING DOWNLIGHT AND ITS CONTROL METHOD	1/25/2021 1
2021/00539	COMPLETE SET OF DEVICE AND METHOD FOR FILLING PASTE-LIKE MATERIALS OF COAL-BASED SOLID WASTES IN FULLY MECHANIZED MINING FACE WITH LARGE DIP ANGLE	1/26/2021 1
2021/01536	HIGH-ENERGY PHOSPHORYL COMPOUND FERTILIZER AND APPLICATION THEREOF	7/30/2019 1
2021/02376	AIR-JET STEERING DRONE	6/18/2020 1
2021/02485	LAMP STRAP FOR DYNAMICALLY MEASURING RESPIRATORY PHYSIOLOGICAL PARAMETERS AND OPERATING METHOD THEREOF	4/15/2021 1
2021/02571	WIRELESSLY CHARGED PATROL UAV, CHARGING DEVICE, AND CHARGING METHOD	8/13/2020 1
2021/02864	BOREHOLE BLAST ROOF-CUTTING AND PRESSURE-RELIEVING MODEL FOR GOB-SIDE ROADWAYS IN DEEP MINES AND METHOD FOR DETERMINING PARAMETERS	4/29/2021 1
2021/03048	NOVEL AGRICULTURAL COMPOSITION	7/15/2019 1
2021/03155	SULFIDE ORE FLOTATION COLLECTOR, APPLICATION THEREOF AND SULFIDE ORE FLOTATION METHOD	5/10/2021 1
2021/03242	FOOD CONTAINER AND DEVICES AND METHODS FOR ATTRACTING ENHANCED ATTENTION	9/17/2019 1
2021/03306	PRIMERS FOR RAPID IDENTIFICATION OF LYMANTRIA XYLINA SWINHAE BASED ON CONVENTIONAL PCR TECHNOLOGY, AND APPLICATION AND IDENTIFICATION METHOD THEREOF	5/14/2021 1
2021/03307	DETECTION METHOD, PRIMERS, AND PROBE FOR GYPSY MOTHS LYMANTRIA DISPAR L. BASED ON TAQMAN-MGB QPCR TECHNOLOGY	5/14/2021 1
2021/03563	PROBIOTIC DROP FOR IMPROVING ALLERGIC CONSTITUTION	1/25/2021 1
2021/03622	CRACK PREFABRICATION DEVICE AND CRACK MAKING METHOD	5/27/2021 1
2021/03661	GROUTING PERFORMANCE TEST METHOD AND	5/28/2021 1

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	DEVICE FOR REALLY CRACKED ROCK SPECIMEN	
2021/03671	A DEVICE FOR TRAPPING A SQUID IN AN OCEAN	5/28/2021 1
2021/03672	A HIGH-EFFICIENCY COMBINED SQUID JIGGING MACHINE	5/28/2021 1
2021/03836	SUPERIMPOSED ARC TYPE FISHWAY WITH VARIABLE HYDRAULIC GRADIENT AND FISH PASSING METHOD	6/2/2021 12
2021/03837	KNEE PROTECTION DEVICE FOR LEAPS AND BOUNDS DANCE TRAINING	6/4/2021 12
2021/03838	METHOD AND APPLICATION FOR SYNERGISTICALLY REMOVING ARSENIC FROM ARSENIC-ALKALI RESIDUE MIXED WITH ARSENIC CONTAINING MATERIALS	6/4/2021 12
2021/03839	A SAFETY CABIN FOR THE SAFE OPERATION OF A TUNNELING MACHINE DRIVER	6/4/2021 12
2021/03840	A INTERNAL TENSION-RELIEVING BRAIDING DEVICE AUGMENT CRUCIATE LIGAMENT RECONSTRUCTION	6/4/2021 12
2021/03952	A CATHODE MATERIAL OF LITHIUM/SODIUM ION BATTERY AND ITS PREPARATION METHOD	6/9/2021 12
2021/03956	MODEL FOR PREDICTION OF WATER INRUSH QUANTITY FROM COAL SEAM ROOF AQUIFER IN MINE BASED ON PLSR AND RBF NEURAL NETWORK	6/9/2021 12
2021/03972	UWB-BASED TERMINAL POSITIONING SCHEDULING METHOD	4/29/2019 1
2021/03986	DOWNHOLE WIND-DRIVEN WINCH AND REALIZATION METHOD THEREOF	6/10/2021 1
2021/03987	TWO-COMPONENT POLYURETHANE COMPOSITION AND ITS PREPARATION METHOD, AND APPLICATION THEREOF	6/10/2021 1
2021/04024	ANTI-FLOODING SAFETY EARLY WARNING DEVICE OF COAL MINE AND REALIZATION METHOD THEREOF	6/11/2021 1
2021/04027	LIPSTICK-TYPE OINTMENT FOR TREATING SKIN INFLAMMATION AND PREPARATION METHOD	6/11/2021 1
2021/04094	VOLUME DETECTION DEVICE AND DETECTION METHOD	6/15/2021 1
2021/04095	UNDERGROUND GROUTING DRILL PIPE IN COAL MINE AND USE METHOD THEREOF	6/15/2021 1
2021/04096	SYNCHRONOUS JACKING EQUIPMENT FOR DISMANTLING CEMENT CONCRETE PAVING SLABS	6/15/2021 1
2021/04098	METHOD FOR SIMULATING AND MONITORING LATERAL FORCE ON ROADSIDE BACKFILL BODY OF GOB SIDE ENTRY RETAINING IN FILLING MINING	6/15/2021 1
2021/04099	SEWAGE TREATMENT EQUIPMENT	6/15/2021 1
2021/04100	RECOMBINANT ONCOLYTIC VIRUS FOR LYMPHOMA, ESOPHAGEAL CANCER, BREAST CANCER AND PANCREATIC CANCER THERAPY	6/15/2021 1
2021/04119	SYSTEM AND METHOD FOR REALIZING CONTINUOUS ADDITION OF SAND INTO PRE-MIXED ABRASIVE WATER JET BY HIGH-PRESSURE MORTAR PUMP	10/10/2019
2021/04223	AN INTEGRATED SWEEPING AND SPRAYING PIPELINE CLEANING ROBOT	6/21/2021 1
2021/04224	METHOD FOR GROUTING REINFORCEMENT OF FAULT FRACTURE ZONE OF COAL MINING WORKING	6/21/2021 1

Application Number	Patent Title	Filing Date
	FACE	
2021/04228	PORTABLE OPERATIONAL MEDICINE CRUSHING DEVICE SUITABLE FOR EMERGENCY DEPARTMENT	6/21/2021 1
2021/04229	MULTIFUNCTIONAL CHEMOTHERAPY CONTROL DEVICE IN ONCOLOGY DEPARTMENT	6/21/2021 1
2021/04231	METHOD FOR GROUTING STRENGTHENING OF GAS DRAINAGE BOREHOLES UNDER VERY SOFT COAL SEAM AND SYSTEM AND APPLICATION THEREOF	6/21/2021 1
2021/04238	AIRBAG PROTECTIVE CANOPY FOR SUPPORTING ROADWAY	6/21/2021 1
2021/04240	METHOD FOR CUTTING TARGET MATERIAL BY WATER JET BASED ON TARGET MATERIAL VIBRATION FREQUENCY	6/21/2021 1
2021/04309	WELL WALL CRACK AND HOLE IDENTIFICATION AND JUDGMENT METHOD BASED ON OIL-BASED MUD ELECTRICAL IMAGING LOGGING	6/23/2021 1
2021/04310	VALVE WITH INTEGRATED LEVEL INDICATOR	6/23/2021 1
2021/04345	FLANGE ALIGNER FOR MINE PIPELINE	6/24/2021 1
2021/04346	A CONSTRUCTION TECHNOLOGY FOR ANCHOR BOLT HOLE AT BOTTOM CORNER OF SOFT ROCK ROADWAY	6/24/2021 1
2021/04347	SELF-SERVICE GASTRIC TUBE FEEDING DEVICE WITH CONTROLLABLE SPEED AND TEMPERATURE	6/24/2021 1
2021/04377	CABLE FOR ELECTRIC VEHICLE CHARGING PILE, PREPARING METHOD AND STRANDING DEVICE OF WEAK CURRENT FLEXIBLE CORE	4/9/2020 12
2021/04484	HOSE FLANGE PROTECTOR	6/29/2021 1
2021/04485	FLUORESCENCE POLARIZATION IMMUNOASSAY METHOD FOR MULTI RESIDUE OF ANTIBACTERIAL SYNERGISTS BASED ON DHFR	6/29/2021 1
2021/04486	NEW TYPE OF BACTERIA INCUBATOR	6/29/2021 1
2021/04487	METHOD FOR DETECTING MONOSACCHARIDES IN APPLE PULP CELL WALL BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY	6/29/2021 1
2021/04488	AN AUXILIARY CONSTRUCTION APPARATUS FOR HIGH-STRENGTH CONCRETE SHAFT LINING STRUCTURE	6/29/2021 1
2021/04489	A MULTIFUNCTIONAL CART SPECIAL FOR CIVIL ENGINEERING	6/29/2021 1
2021/04490	A TRACKING GUIDANCE METHOD FOR ONLINE CORRECTION OF STANDARD WAVY REENTRY TRAJECTORIES	6/29/2021 1
2021/04495	A COAL MINE GAS PASSIVATION SAFETY TRANSPORTATION SYSTEM	6/29/2021 1
2021/04496	RECOMBINANT HERPES SIMPLEX VIRUS VECTOR, RECOMBINANT VIRUS AND PHARMACEUTICAL COMPOSITION THEREOF	6/29/2021 1
2021/04497	AUTOMATIC GLUE DISCHARGING DEVICE FOR EMPTY CAPSULE PRODUCTION LINE	6/29/2021 1
2021/04535	METHOD AND DEVICE FOR IDENTIFY FUNCTIONAL MODULES IN DYNAMIC PROTEIN NETWORK	6/30/2021 1
2021/04536	MINE MULTIFUNCTIONAL SAFETY HELMET AND	6/30/2021 1



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	IMPLEMENTATION METHOD THEREOF	
2021/04537	TRIAXIAL LOAD SEEPAGE DEVICE FOR CT AND IMPLEMENTATION METHOD THEREOF	6/30/2021 1
2021/04538	FALL DETECTION METHOD AND DEVICE BASED ON HYBRID CASCADE CONVOLUTION	6/30/2021 1
2021/04539	HIGH-PERFORMANCE GROUND SOURCE HEAT PUMP TESTING SYSTEM AND OPERATION METHOD THEREOF	6/30/2021 1
2021/04541	PREPARATION METHOD OF AG-AGBR/ TIO <sub>2</sub> COMPOSITE NANOROD ARRAY FILM	6/30/2021 1
2021/04544	CU <sub>2</sub> O/ TIO <sub>2</sub> COMPOSITE PHOTOCATALYTIC MATERIAL AND ITS PREPARATION METHOD	6/30/2021 1
2021/04546	A DETECTION DEVICE SUITABLE FOR MEASURING METHANE GAS IN COAL MINE	6/30/2021 1
2021/04639	APPLICATION OF ALKALOID COMPOUNDS IN PREPARING DRUGS FOR INHIBITING PLATELET AGGREGATION	7/5/2021 12
2021/04640	METHOD AND SYSTEM FOR DEMULSIFICATION OF WASTE OIL EMULSION BY CHAOTIC FREQUENCY PULSED ELECTRIC FIELD	7/5/2021 12
2021/04641	OIL CONCENTRATION PREDICTION METHOD BASED ON DATA REJECTION AND LOCAL PARTIAL LEAST SQUARES	7/5/2021 12
2021/04642	GENE CHIP PROBE SET FOR DETECTION OF EDWARDSIELLA TARDA	7/5/2021 12
2021/04643	MAYONNAISE WITH LOW GREASY TASTE AND PREPARATION METHOD THEREOF	7/5/2021 12
2021/04644	A CASCADE-CONNECTED TRANSDUCER WITH MULTI-SEGMENTED ARRANGEMENT	7/5/2021 12
2021/04653	PRE-MIXED ABRASIVE WATER JET MACHINING METHOD FOR CUTTING TUNGSTEN PLATE FOR FUSION REACTOR	7/5/2021 12
2021/04657	CHROMATOGRAPHY COLUMN TEMPERATURE EQUALIZER FOR ENSURING TEMPERATURE UNIFORMITY	7/13/2020 1
2021/04658	HIGHLY-ADJUSTABLE CHROMATOGRAPHY COLUMN TEMPERATURE EQUALIZER	7/13/2020 1
2021/04691	ELECTROCHEMILUMINESCENCE (ECL) SYSTEM FOR DETECTION OF MIRNA BASED ON SELF-GENERATED CO-REACTANT AND SIGNAL AMPLIFICATION	7/6/2021 12
2021/04694	DENITRATION AND DEMERCURATION CATALYST AND PREPARATION METHOD THEREOF	7/6/2021 12
2021/04847	EPOXY RESIN POTTING ADHESIVE	7/12/2021 1
2021/04848	CULTIVATION METHOD OF CISTANCHE TUBULOSA R. WIGHT SUITABLE FOR SALINE AREAS IN THE YELLOW RIVER DELTA	7/12/2021 1
2021/04849	SOIL MODIFIER FOR DRY FARMING IN HEAVY SODIC SALINE-ALKALI LAND	7/12/2021 1

## DESIGNS

## Advertisement List for July 2021

Number of Advertised Designs: 99

Application Number	Design Articles	Filing Date
A2018/01921	Pen	12/18/2018
A2018/01922	Chair	12/18/2018
A2019/00321	A STOVE	2/28/2019 1
A2019/00321	A STOVE	2/28/2019 1
A2019/00849	DOUBLE NUT WASHER	6/21/2019 1
A2019/01070	VIBRATORY SCREENING MACHINE	8/6/2019 12
A2019/01686	BLADES	11/14/2019
A2019/01687	BLADE TIPS	11/14/2019
A2019/01775	POWER TOOLS	12/11/2019
A2019/01776	POWER TOOLS	12/11/2019
A2019/01785	POWER TOOLS	12/11/2019
A2019/01788	BATTERY PACKS	12/11/2019
A2019/01843	SECURING DEVICES	12/20/2019
A2019/01844	SECURING DEVICES	12/20/2019
A2020/00146	Automobile	2/7/2020 12
A2020/00199	TYPEFACE	2/17/2020 1
A2020/00365	VEHICLE REAR BUMPER	3/16/2020 1
A2020/00641	PORTABLE BLENDER	5/22/2020 1
A2020/00675	Flange	5/28/2020 1
A2020/01049	CABLE GLANDS	7/31/2020 1
A2020/01051	Headwear and Headwear Accessories	7/31/2020 1
A2020/01205	FABRIC	9/4/2020 12
A2020/01217	A CUSHION	9/10/2020 1
A2020/01239	DATA TRANSMISSION DEVICE (DATA PROCESSING)	9/17/2020 1
A2020/01251	Computing Device with Graphical User Interface	9/18/2020 1
A2020/01252	Computing Device with Graphical User Interface	9/18/2020 1
A2020/01253	Computing Device with Graphical User Interface	9/18/2020 1
A2020/01254	Computing Device with Graphical User Interface	9/18/2020 1
A2020/01255	Computing Device with Graphical User Interface	9/18/2020 1
A2020/01257	Layer of a Transaction Card Having Multiple Discontinuities	9/21/2020 1
A2020/01277	SAFARI MULTIPURPOSE AUTOMOBILE CABIN BODY	9/23/2020 1
A2020/01279	Bottle with Pirate Shape	9/23/2020 1
A2020/01280	Bottle with Mermaid Shape	9/23/2020 1
A2020/01282	Cuvette	9/23/2020 1
A2020/01283	Cuvette	9/23/2020 1

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A2020/01284	HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE	9/25/2020 1
A2020/01285	HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE	9/25/2020 1
A2020/01286	CONTROLLER FOR ELECTRONIC DEVICE	9/25/2020 1
A2020/01287	HOUSING OF CONTROLLER FOR ELECTRONIC DEVICE	9/25/2020 1
A2020/01292	Computing Device with Graphical User Interface	9/25/2020 1
A2020/01321	BOTTLE	10/5/2020 1
A2020/01323	MEASURING UNIT FOR ELECTRIC ENERGY METER	10/5/2020 1
A2020/01324	INDICATOR DEVICE FOR ELECTRIC ENERGY METER	10/5/2020 1
A2020/01325	MEASURING UNIT FOR ELECTRIC ENERGY METER	10/5/2020 1
A2020/01331	Face Mask	10/6/2020 1
A2020/01332	Face Mask	10/6/2020 1
A2020/01336	Jar Cap with Mixing Paddle	10/7/2020 1
A2020/01355	TIRES	10/13/2020
A2020/01370	Applicator for Toilet Bowl Cleaning Gel	10/20/2020
A2020/01372	BOTTLE	10/15/2020
A2020/01379	WINE BOTTLE STAND	10/21/2020
A2020/01380	Mobile Phone	10/21/2020
A2020/01381	Mobile Phone	10/21/2020
A2020/01382	Hearing Aid	10/21/2020
A2020/01397	Layer of a Transaction Card Having Single-Step Discontinuities	10/23/2020
A2020/01398	Layer Of A Transaction Card Having Zigzag Discontinuities	10/23/2020
A2020/01410	A LAPTOP STAND	10/30/2020
A2020/01421	RING LAMP	11/4/2020 1
A2020/01527	WEIGHT	11/25/2020
A2020/01529	J-CLIP	11/25/2020
A2020/01544	Travelator	11/27/2020
A2020/01545	Travelator	11/27/2020
A2020/01546	SPIGOT	11/27/2020
A2021/00354	STOVE	4/7/2021 12
F2019/00850	DOUBLE NUT WASHER	6/21/2019 1
F2019/00852	DOUBLE NUT WASHER	6/21/2019 1
F2019/01845	SECURING DEVICES	12/20/2019
F2019/01846	SECURING DEVICES	12/20/2019
F2020/00167	MINI DUMPER	2/12/2020 1
F2020/00234	EXERCISE APPARATUS	2/26/2020 1
F2020/00235	FITTING TO SECURE AND RELEASE A GLASS-BREAKING DEVICE	2/26/2020 1
F2020/00730	A HAND EXTENSION TOOL	6/4/2020 12
F2020/00731	A HAND EXTENSION TOOL	6/4/2020 12
F2020/01023	FACE MASK FILTER CARTRIDGE	7/24/2020 1
F2020/01052	Headwear and Headwear Accessories	7/31/2020 1

Application Number	Design Articles	Filing Date
F2020/01066	NOZZLE	8/4/2020 12
F2020/01087	A FACE MASK	8/12/2020 1
F2020/01124	NETWORK CABINET	8/18/2020 1
F2020/01179	A BLANK FOR A CONTAINER	9/2/2020 12
F2020/01198	SANITIZER HOLDERS	9/3/2020 12
F2020/01210	DENTAL SUCTION FUNNEL	9/4/2020 12
F2020/01218	A CUSHION	9/10/2020 1
F2020/01227	RAISED BED PLANT CONTAINER	9/10/2020 1
F2020/01235	HINGE COMPONENTS OF ROAD DELINEATORS	9/16/2020 1
F2020/01236	BLADE COMPONENTS OF ROAD DELINEATORS	9/16/2020 1
F2020/01241	THROAT BUSH	9/17/2020 1
F2020/01256	A BLANK FOR A FOOD TRAY	9/21/2020 1
F2020/01276	PORTABLE BED SHIELD	9/23/2020 1
F2020/01308	AXLE ASSEMBLY	9/29/2020 1
F2020/01352	Feet for Display Units	10/8/2020 1
F2020/01359	AN INTRAMEDULLARY NAIL	10/13/2020
F2020/01360	LIGHT FIXTURES FOR UVC LIGHT	10/14/2020
F2020/01365	SPRAYERS	10/15/2020
F2020/01369	TABLE	10/20/2020
F2020/01388	TAP	10/23/2020
F2020/01417	FINGERTIP COVERING DISPENSER	11/2/2020 1
F2020/01524	STORAGE CONTAINER STRUCTURES	11/25/2020
F2020/01528	WEIGHT	11/25/2020
F2020/01548	SPIGOT	11/27/2020